



**CONESTOGA-ROVERS  
& ASSOCIATES**

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July 14, 2009

Reference No. 017360-10

Ms. Darlene Stringer  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
350 Ottawa Avenue NW, Unit 10  
Grand Rapids, Michigan 49503-2341

Dear Ms. Stringer:

Re: April 2009 Semi-Annual Groundwater Monitoring Report  
General Motors Corporation  
Grand Rapids Metal Plant  
Wyoming, Michigan

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## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this April 2009 Semi-Annual Monitoring Report (Report) for the General Motors Corporation Metal Fabrication Division (MFD) Grand Rapids Metal Plant located at 300 36<sup>th</sup> Street S.W. in Wyoming, Michigan (Site). The purpose of the Report is to present the results of the April 2009 semi-annual groundwater sampling event conducted at the Site. Sampling was conducted in accordance with the 2005 Groundwater Monitoring Work Plan submitted on April 12, 2005 to the Michigan Department of Environmental Quality (MDEQ) and verbally approved on April 28, 2005.

## 2.0 GROUNDWATER MONITORING PROGRAM

The scope of work (SOW) for the semi-annual groundwater monitoring program conducted at the Site includes: the collection and analysis of groundwater/water samples for Target Compound List (TCL) volatile organic compounds (VOCs) from existing monitoring wells and culvert locations; the collection and analysis of groundwater samples from monitoring wells 85-3, 85-5B, 85-6, and 86-1 for TCL semi-volatile organic compounds (SVOCs); the measurement of static groundwater levels in all monitoring wells; and the measurement of free product levels in select Site monitoring wells. Based on discussions with the MDEQ, the groundwater treatment system was shut down indefinitely in February 2005.

The results of the implementation of the SOW are presented in the subsections below.



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Reference No. 017360-10

## **2.1 APRIL 2009 SEMI-ANNUAL SAMPLE COLLECTION AND ANALYSIS**

A total of 46 groundwater samples, including quality assurance/quality control (QA/QC) samples, were collected from monitoring wells MW1-03 through MW7-03, MW8-04 through MW10-04, MW11S-05, MW11D-04, MW13-04 through MW15-04, MW17-06, 85-1, 85-2, 85-3, 85-5B, 85-6, 85-7, 86-1, 86-3, 87-1, 87-2, 87-4, 87-5, 87-8, 87-9, 87-10, 87-11, 87-13, 88-2, 88-3, 88-4, purge well 86-2, and from culvert locations C-1, C-2, and C-3 between April 6, 2009 and April 8, 2009 for analysis of TCL VOCs. In addition, samples collected from monitoring wells 85-3, 85-5B, 85-6, and 86-1 were analyzed for TCL SVOCs. Table 1 presents a summary of the samples collected during the April 2009 semi-annual sampling event.

Prior to groundwater sample collection, static water levels were measured and recorded for the monitoring wells. Well caps were unlocked and removed allowing the water levels in the wells to stabilize. Static water levels and free product levels were measured to the top of each riser. Table 2 presents static water levels for April 6, 2009. No measurable free product was detected in monitoring wells 85-3, 85-5B, 85-6, or 86-1 during the April 2009 semi-annual sampling event. Figure 1 presents the approximate groundwater flow direction for April 6, 2009.

Dedicated ¼-inch diameter polyethylene tubing is utilized in each of the wells to be sampled. The bottom intake of the tubing was set in the middle of the screened interval for each of the wells. All wells were purged with a peristaltic pump using low-flow purge (LFP) techniques. Wells were purged between 100 and 200 mL per minute with continuous monitoring to confirm less than 0.3 feet of drawdown of the water level. Groundwater quality measurements were recorded in consecutive timed intervals using a Horiba and a HF Scientific turbidity meter. Groundwater quality parameters included pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Upon groundwater stabilization, based on three consecutive similar readings, groundwater samples were collected. Groundwater quality measurements are presented in Table 3.

Water samples collected from the culvert locations C-1, C-2 and C-3 were collected using a new disposable polyethylene sampling bottle in each location.

Collected groundwater samples and water samples were containerized in laboratory-provided containers, labeled, placed on ice, and shipped under chain-of-custody (COC) protocol to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. Table 4 presents an analytical summary of parameters for groundwater and water samples collected during the April 2009 semi-annual sampling event. Figure 2 presents select TCL VOC concentrations in groundwater and water samples collected during the April 2009 semi-annual sampling event. Figures 3, 4, 5, and 6 present concentration isocontours for trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC), respectively, in groundwater samples collected in the Southern Area during the April 2009 monitoring event. Figures 7, 8, 9, and 10 present concentration isocontours for TCE, PCE,



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cis-1,2-DCE, and VC, respectively, in groundwater samples collected in the Northern Area during the April 2009 monitoring event. Analytical data is presented in Attachment A. A QA/QC data validation was conducted on the analytical data and a memorandum summarizing the results of the data validation is presented in Attachment B. Historical analytical results are presented in Attachment C.

### 3.0 CLOSURE

The next semi-annual sampling event is scheduled for October 2009.

Please contact the undersigned at (517) 316-2397, should you have any questions regarding this Report.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

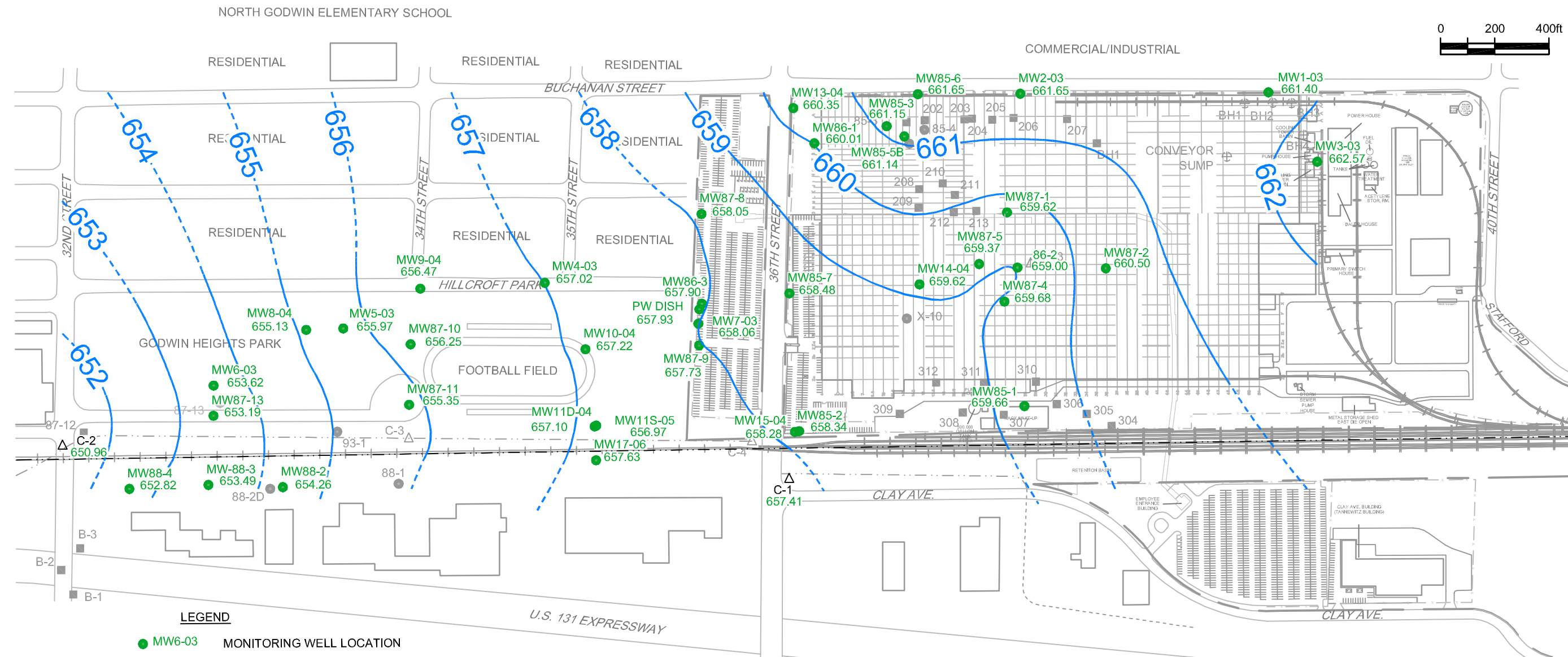
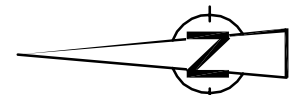
A handwritten signature in cursive script, reading 'Jennifer L. Quigley', is written over a printed name.

Jennifer L. Quigley

LKC/te/10/Lan.

Encl.

c.c.: Scott Haeger, Alix Partners/MLC  
Jim Redwine, Alix Partners/MLC



**LEGEND**

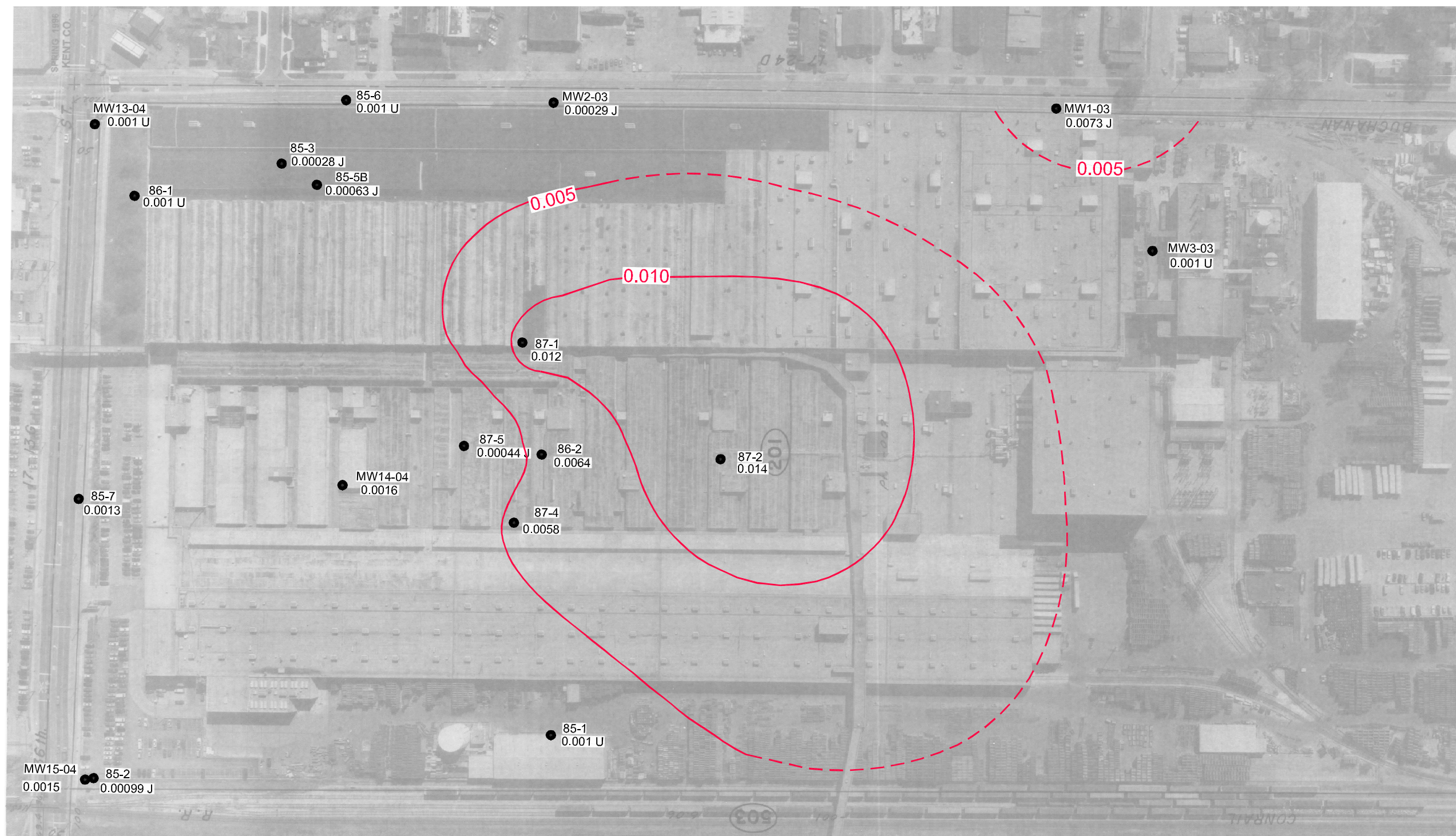
- MW6-03 MONITORING WELL LOCATION
- PW D1SH PURGE WELL LOCATION
- SOIL BORING LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- △ 87-3 AIR PURGE WELL
- ⊕ BH1 APPROXIMATE LOCATION OF DEWATERING WELLS
- APPROXIMATE SITE BOUNDARY
- - - FENCE
- +—+— RAILROAD
- · - · - COLE DRAIN
- 652— GROUNDWATER ELEVATION CONTOUR
- - -652- - - INFERRED ELEVATION CONTOUR
- 657.93 GROUNDWATER ELEVATION

SOURCE: EDI ENGINEERING & SCIENCE, JUNE 1987 AND JUNE 1988 AND EARTH TECH, SEPTEMBER 2001.

figure 1  
APRIL 6, 2009  
GROUNDWATER CONTOURS  
GRAND RAPIDS METAL PLANT  
Wyoming, Michigan







**LEGEND**

- 0.005 — TRICHLOROETHENE CONCENTRATION CONTOUR LINE
- - - 0.005 - - - INFERRED TRICHLOROETHENE CONCENTRATION CONTOURS

Parameter	Criteria (mg/L) <sup>(1)</sup>
Trichloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

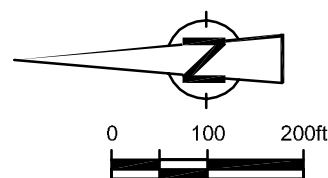
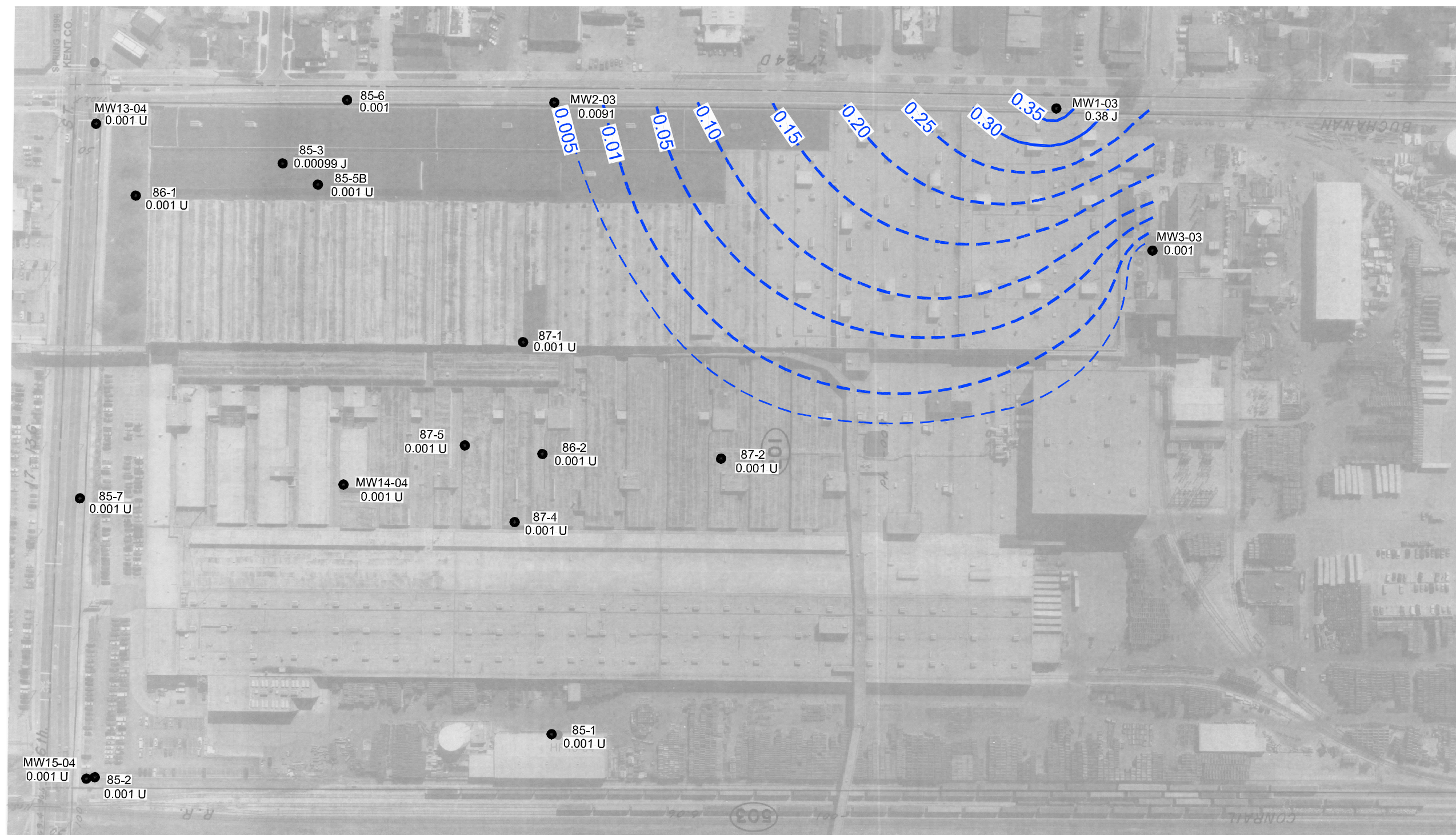


figure 3  
**TRICHLOROETHENE ISOCONTOURS - APRIL 2009**  
**SOUTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*





**LEGEND**

- 0.25 — TETRACHLOROETHENE CONCENTRATION CONTOUR LINE
- - - 0.25 - - - INFERRED TETRACHLOROETHENE CONCENTRATION CONTOURS

Parameter	Criteria (mg/L) <sup>(1)</sup>
Tetrachloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

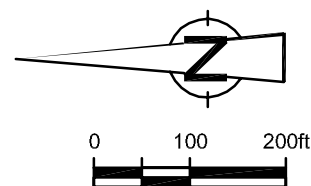
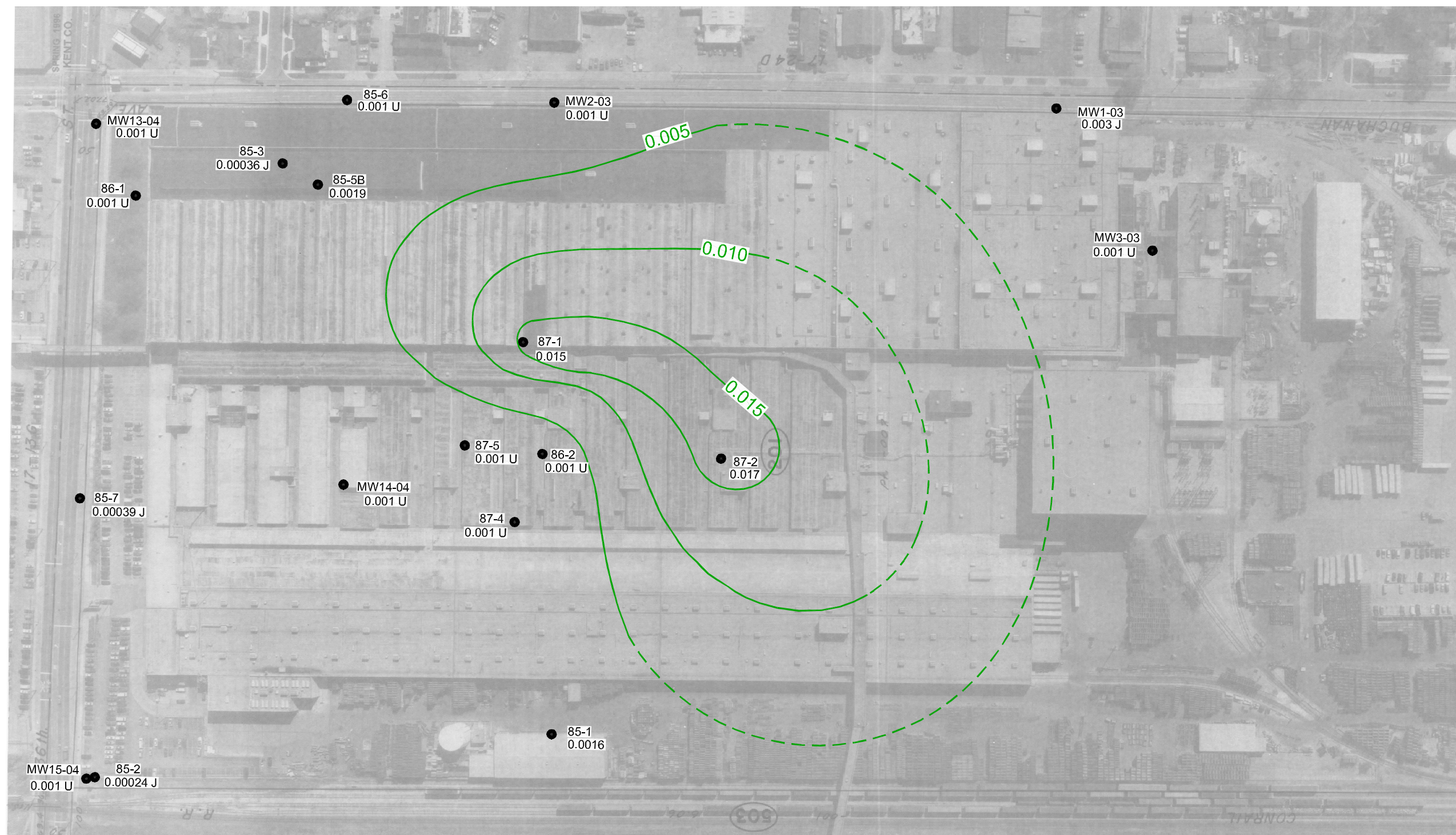


figure 4  
**TETRACHLOROETHENE ISOCONTOURS - APRIL 2009**  
**SOUTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*





**LEGEND**

- 0.005 — CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE
- - - 0.005 - - - INFERRED CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOURS

Parameter	Criteria (mg/L) <sup>(1)</sup>
Cis-1,2-Dichloroethene	0.070

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

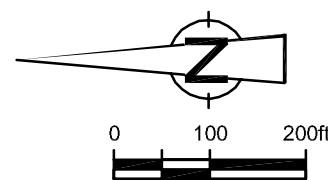
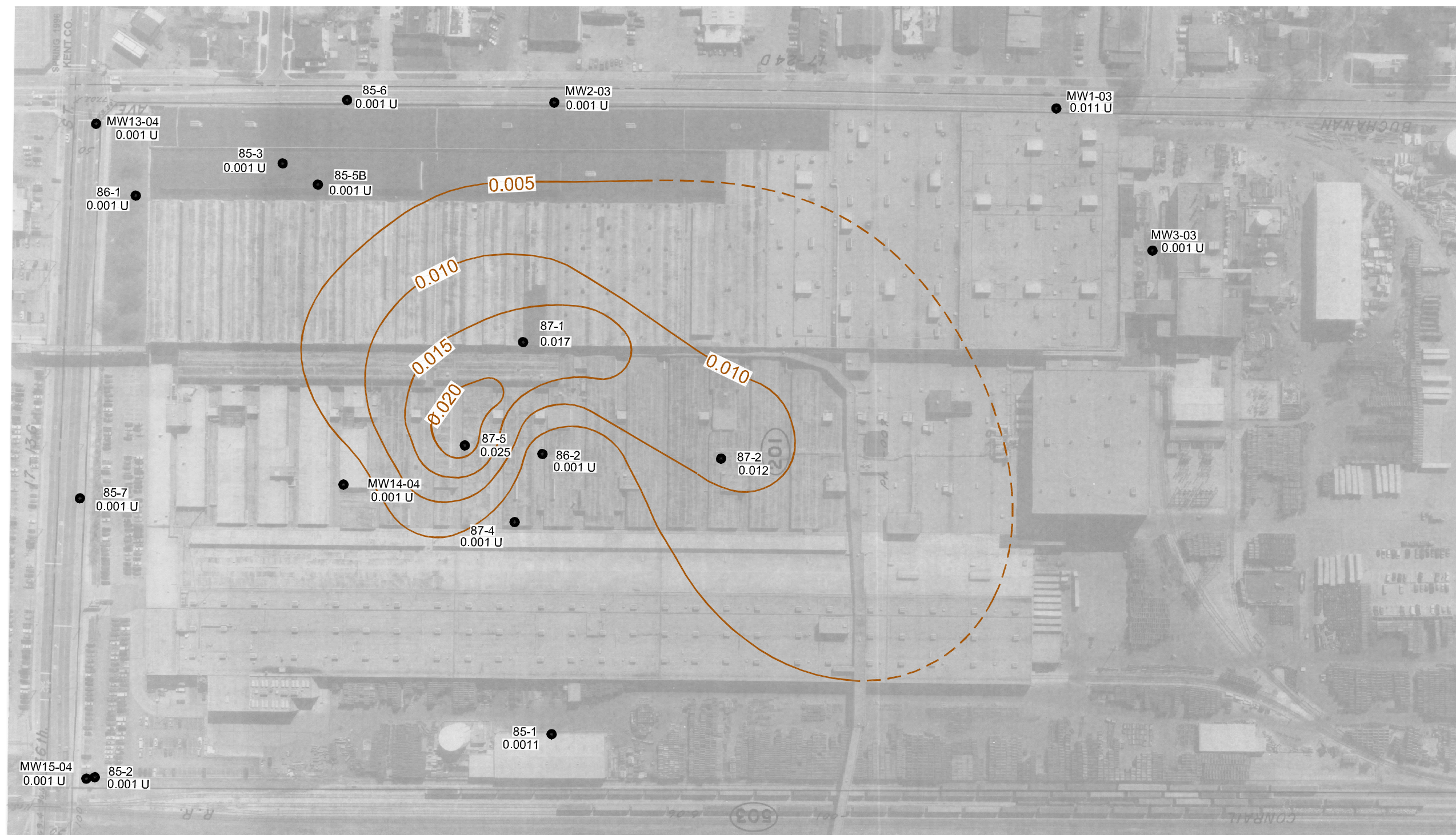


figure 5  
**CIS-1,2-DICHLOROETHENE ISOCONTOURS - APRIL 2009**  
**SOUTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*





**LEGEND**

- 0.020— VINYL CHLORIDE CONCENTRATION CONTOUR LINE
- 0.020— INFERRED VINYL CHLORIDE CONCENTRATION CONTOURS

Parameter	Criteria (mg/L) <sup>(1)</sup>
Vinyl Chloride	0.002

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

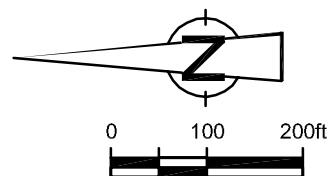
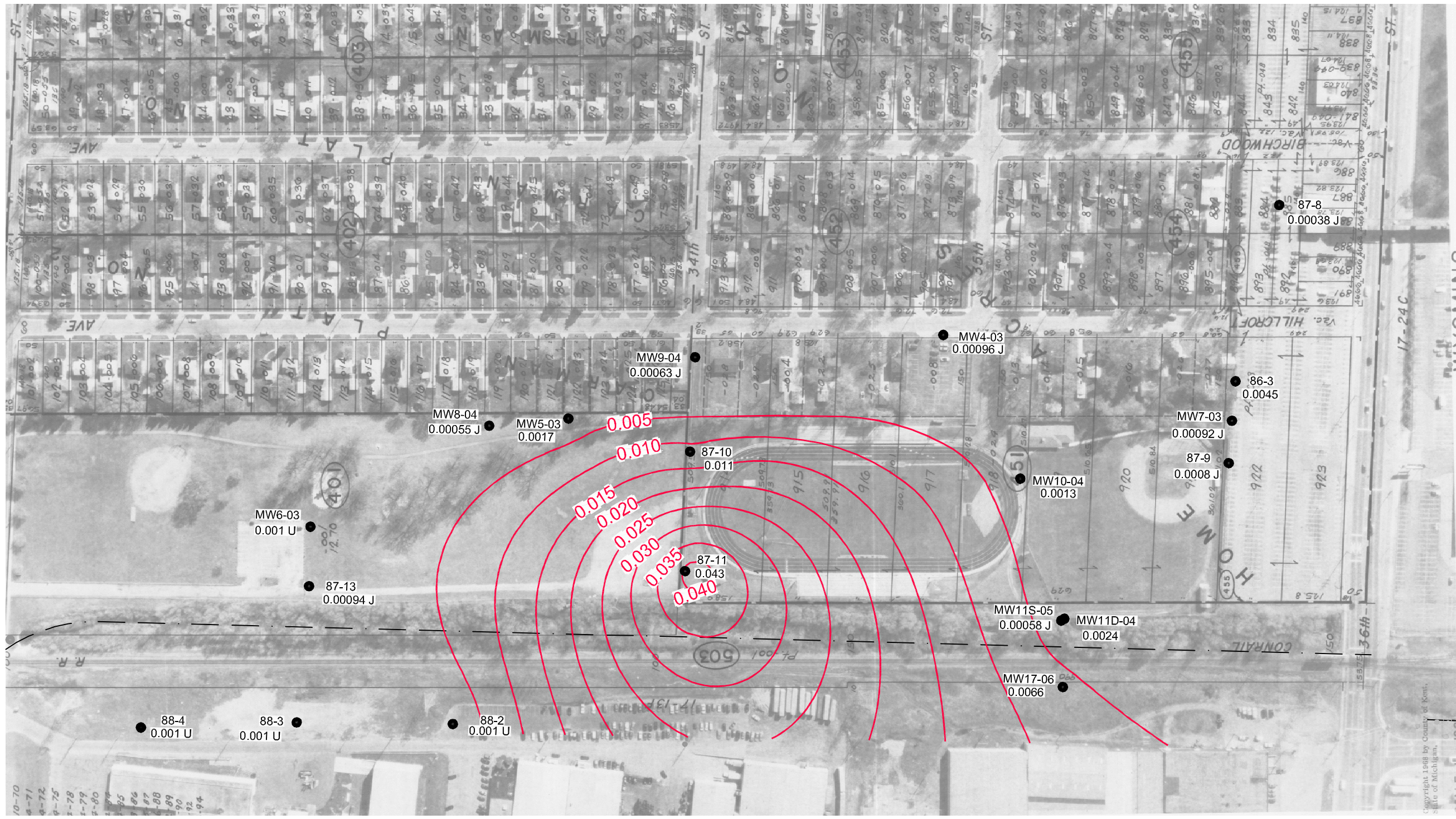


figure 6  
**VINYL CHLORIDE ISOCONTOURS - APRIL 2009**  
**SOUTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*





**LEGEND**

- 0.015 TRICHLOROETHENE CONTOUR LINE
  - - - 0.015 INFERRED CONCENTRATION CONTOUR
  - - - COLE DRAIN
- | Parameter       | Criteria (mg/L) (1) |
|-----------------|---------------------|
| Trichloroethene | 0.005               |

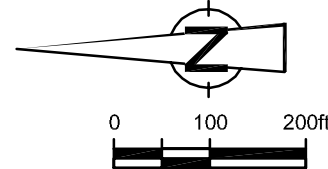


figure 7  
**TRICHLOROETHENE ISOCONTOURS - APRIL 2009**  
**NORTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*



(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA



**LEGEND**

- 0.010 TETRACHLOROETHENE CONCENTRATION CONTOUR LINE
- - - - 0.010 INFERRED TETRACHLOROETHENE CONCENTRATION CONTOURS
- - - - COLE DRAIN

Parameter	Criteria (mg/L) <sup>(1)</sup>
Tetrachloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

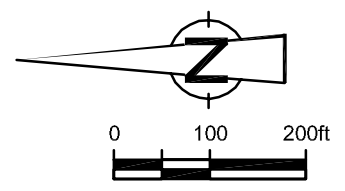


figure 8  
**TETRACHLOROETHENE ISOCONTOURS - APRIL 2009**  
**NORTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*





**LEGEND**

- 0.015 CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE
- 0.030 INFERRED CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR
- COLE DRAIN

Parameter	Criteria (mg/L) (1)
Cis-1,2-Dichloroethene	0.070

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

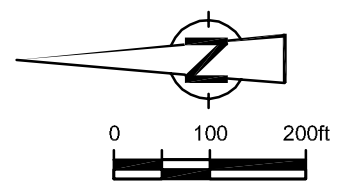


figure 9  
**CIS-1,2-DICHLOROETHENE ISOCONTOURS - APRIL 2009**  
 NORTHERN AREA  
 GRAND RAPIDS METAL PLANT  
 Wyoming, Michigan





**LEGEND**

- 0.002 VINYL CHLORIDE CONTOUR LINE
- - - 0.002 INFERRED VINYL CHLORIDE CONTOUR
- - - COLE DRAIN

Parameter	Criteria (mg/L) <sup>(1)</sup>
Vinyl Chloride	0.002

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

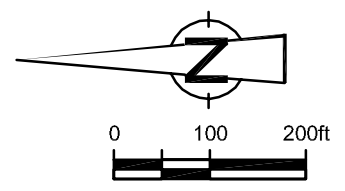


figure 10  
**VINYL CHLORIDE ISOCONTOURS - APRIL 2009**  
**NORTHERN AREA**  
**GRAND RAPIDS METAL PLANT**  
*Wyoming, Michigan*



TABLE 1  
SAMPLE COLLECTION AND ANALYSIS SUMMARY  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTOR CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>QC Sample</u>	<u>Analysis</u>
GW-17360-040609-DR-230	88-2	Water		1
GW-17360-040609-DR-231	88-2	Water	Duplicate (-230)	1
GW-17360-040609-DR-232	88-3	Water		1
GW-17360-040609-DR-233	88-4	Water		1
GW-17360-040609-DR-234	MW17-06	Water		1
GW-17360-040609-DR-235	C-1	Water		1
GW-17360-040609-DR-236	C-2	Water		1
GW-17360-040609-DR-237	C-3	Water		1
GW-17360-040609-DR-238	85-2	Water	MS/MSD	1
GW-17360-040609-DR-239	MW15-04	Water		1
GW-17360-040609-DR-240	85-7	Water		1
GW-17360-040709-DR-241	87-13	Water		1
GW-17360-040709-DR-242	MW6-03	Water		1
GW-17360-040709-DR-243	87-11	Water		1
GW-17360-040709-DR-244	MW8-04	Water		1
GW-17360-040709-DR-245	MW5-03	Water		1
GW-17360-040709-DR-246	87-10	Water		1
GW-17360-040709-DR-247	MW9-04	Water		1
GW-17360-040709-DR-248	MW9-04	Water	Duplicate (-247)	1
GW-17360-040709-DR-249	MW4-03	Water		1
GW-17360-040709-DR-250	MW10-04	Water		1
GW-17360-040709-DR-251	MW11S-05	Water		1
GW-17360-040709-DR-252	MW11D-04	Water		1
GW-17360-040709-DR-253	87-9	Water		1
GW-17360-040709-DR-254	MW7-03	Water		1
GW-17360-040709-DR-255	86-3	Water		1
GW-17360-040709-DR-256	87-8	Water		1
GW-17360-040709-DR-257	85-1	Water		1
GW-17360-040709-DR-258	MW3-03	Water		1
GW-17360-040709-DR-259	MW1-03	Water		1
GW-17360-040709-DR-260	Trip Blank	Water		1
GW-17360-040809-DR-261	MW14-04	Water	MS/MSD	1
GW-17360-040809-DR-262	87-4	Water		1
GW-17360-040809-DR-263	87-5	Water	Duplicate (-216)	1
GW-17360-040809-DR-264	86-2	Water		1
GW-17360-040809-DR-265	87-2	Water		1
GW-17360-040809-DR-266	87-1	Water		1
GW-17360-040809-DR-267	87-1	Water	Duplicate (-266)	1
GW-17360-040809-DR-268	MW13-04	Water		1
GW-17360-040809-DR-269	86-1	Water		2
GW-17360-040809-DR-270	86-1	Water	Duplicate (-269)	2
GW-17360-040809-DR-271	85-3	Water		2
GW-17360-040809-DR-272	85-5B	Water		2
GW-17360-040809-DR-273	85-6	Water		2
GW-17360-040809-DR-274	MW2-03	Water		1
GW-17360-040809-DR-275	Trip Blank	Water		1

Notes:

- TCL - Target Compound List
- VOC - Volatile Organic Compounds
- SVOC - Semi-Volatile Organic Compounds
- QC - Quality Control
- MS/MSD - Matrix Spike /Matrix Spike Duplicate
- 1 - Sampling analysis includes TCL VOCs.
- 2 - Sampling analysis includes TCL SVOCs and TCL VOCs.

TABLE 2

STATIC WATER LEVELS AND FREE PRODUCT THICKNESS  
 APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
 GENERAL MOTORS CORPORATION  
 GRAND RAPIDS METAL PLANT  
 WYOMING, MICHIGAN

<u>Location Identification</u>	<u>Thickness of Product (ft.)</u>	<u>Depth to Water (ft. BTOR)<sup>(1)</sup></u>
85-1		15.37
85-2		13.29
85-3	(2)	19.76
85-5B	(2)	19.69
85-6	(2)	17.94
85-7		19.36
86-1	(2)	19.91
86-2		21.93
86-3		17.90
87-1		21.12
87-2		20.23
87-4		21.23
87-5		21.02
87-8		18.73
87-9		15.40
87-10		11.51
87-11		10.90
87-13		10.38
88-2		11.54
88-3		10.87
88-4		8.38
93-1		--
PWDISCH		19.86
C-1		5.20
C-2		7.85
C-3		--
MW1-03		17.28
MW2-03		18.95
MW3-03		14.17
MW4-03		22.10
MW5-03		19.85
MW6-03		11.77
MW7-03		16.73
MW8-04		19.19
MW9-04		21.53
MW10-04		9.07
MW11D-04		6.17
MW11S-05		6.61
MW13-04		17.91
MW14-04		21.43
MW15-04		13.41
MW17-06		7.08

## Notes:

- (1) Depth to water measurements collected on April 6, 2009  
 (2) No product was observed in the wells.  
 - - No water level measurement was taken.  
 ft. BTOR- Feet below top of riser

TABLE 3  
GROUNDWATER QUALITY PARAMETERS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Turbidity (NTU)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>pH (Units)</i>	<i>DO (mg/L)</i>	<i>ORP (mv)</i>
MW1-03	17.32	15:35	100	2	11.10	0.880	7.24	4.19	164
	17.32	15:40	100	NA	11.04	0.869	7.21	4.14	162
	17.32	15:45	100	2.5	10.91	0.866	7.20	4.01	160
MW2-03	18.98	15:05	150	1.32	13.22	1.664	7.11	3.84	105
	18.98	15:10	150	NA	13.13	1.659	7.10	3.77	106
	18.98	15:15	150	1.41	13.13	1.656	7.10	3.86	107
MW3-03	14.24	15:50	180	1.54	14.14	1.106	7.14	6.41	130
	14.24	15:55	180	NA	13.99	1.112	7.15	6.37	133
	14.24	16:00	180	0.88	13.95	1.113	7.14	6.36	135
MW4-03	22.11	10:25	100	3.49	12.98	1.510	7.01	5.31	300
	22.11	10:30	100	NA	13.01	1.510	7.00	5.25	297
	22.11	10:35	100	3.72	13.11	1.508	7.00	5.32	254
MW5-03	19.87	08:50	100	3.15	11.65	1.720	6.95	0.99	270
	19.87	08:55	100	NA	11.64	1.718	6.95	1.00	268
	19.87	09:00	100	3.12	11.67	1.717	6.95	1.00	267
MW6-03	11.81	08:40	100	1.11	10.13	1.417	7.35	6.12	116
	11.81	08:45	100	NA	10.28	1.419	7.33	5.94	119
	11.81	08:50	100	0.92	10.3	1.42	7.32	5.9	122
MW7-03	16.75	13:55	120	2.34	13.72	3.340	7.11	3.25	256
	16.75	14:00	120	NA	13.87	3.329	7.07	3.17	255
	16.75	14:05	120	2.27	13.74	3.319	7.11	3.11	251
MW8-04	19.21	8:25	100	3.94	11.82	1.887	7.00	5.45	278
	19.21	8:30	100	NA	11.76	1.888	7.01	5.44	278
	19.21	8:35	100	3.16	11.62	1.892	7.01	5.39	277

**Notes:**

ft. BTOR - feet below top of riser  
NA - Not Available

TABLE 3  
GROUNDWATER QUALITY PARAMETERS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Monitoring Well Location	Water Level (ft. BTOR)	Time (hours:minutes)	Purge Rate (mL/per min.)	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	pH (Units)	DO (mg/L)	ORP (mv)
MW9-04	21.55	10:05	150	0.57	12.57	1.903	7.18	4.93	119
	21.55	10:10	150	NA	11.70	1.912	7.18	5.10	121
	21.55	10:15	150	NA	11.29	1.913	7.27	4.92	106
	21.55	10:20	150	NA	11.12	1.910	7.30	4.83	99
	21.55	10:25	150	0.50	11.20	1.916	7.27	4.86	103
MW10-04	9.10	11:00	100	0.41	11.65	1.847	7.25	2.00	136
	9.10	11:05	100	NA	11.20	1.827	7.25	1.71	132
	9.10	11:10	100	NA	11.61	1.820	7.24	1.69	132
	9.10	11:15	100	0.53	11.79	1.810	7.24	1.67	128
MW11S-05	6.68	11:45	120	1.54	9.14	1.380	6.86	0.62	145
	6.68	11:50	120	NA	9.08	1.384	6.84	0.42	144
	6.68	11:55	120	NA	9.02	1.383	6.84	0.40	143
	6.68	12:00	120	0.99	8.98	1.380	6.84	0.39	142
MW11D-04	6.22	11:55	120	0.66	11.81	1.832	7.00	0.59	278
	6.22	12:00	120	NA	11.84	1.826	7.00	0.59	275
	6.22	12:05	120	0.97	11.97	1.812	7.00	0.62	269
MW13-04	18.20	11:10	100	2.06	11.92	1.942	7.15	6.25	172
	18.20	11:15	100	NA	11.91	1.940	7.11	6.24	174
	18.20	11:20	100	1.41	11.93	1.937	7.10	6.26	175
MW14-04	21.45	8:15	150	1.3	17.86	1.510	7.09	0.50	198
	21.45	8:20	150	NA	17.90	1.510	7.1	0.41	199
	21.45	8:25	150	1.26	17.95	1.511	7.1	0.33	196
	21.45	8:30	150	NA	17.97	1.512	7.12	0.33	197
	21.45	8:35	150	1.2	17.98	1.512	7.12	0.32	198
MW15-04	13.43	15:20	100	9.51	11.31	2.520	6.81	0.98	56
	13.43	15:25	100	8.13	11.68	2.570	6.89	0.94	55
	13.43	15:30	100	7.06	11.34	2.630	6.87	0.86	53
	13.43	15:35	100	5.82	11.19	2.700	6.94	0.78	56
	13.43	15:40	100	5.95	11.39	2.730	6.96	0.75	55
	13.43	15:45	100	6.34	11.27	2.750	6.96	0.73	54
MW17-06	7.08	15:20	100	2.71	12.38	2.054	7.28	0.84	30
	7.08	15:25	100	2.36	12.60	2.079	7.26	0.63	37
	7.08	15:30	100	2.11	12.82	2.102	7.23	0.42	47
	7.08	15:35	100	2.23	12.43	2.106	7.24	0.44	48
	7.08	15:40	100	2.09	12.72	2.110	7.21	0.42	51

**Notes:**

ft. BTOR - feet below top of riser  
NA - Not Available

TABLE 3  
GROUNDWATER QUALITY PARAMETERS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Monitoring Well Location	Water Level (ft. BTOR)	Time (hours:minutes)	Purge Rate (mL/per min.)	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	pH (Units)	DO (mg/L)	ORP (mv)
85-1	15.41	15:15	150	5.41	9.98	0.853	6.81	0.57	-2
	15.41	15:20	150	4.79	9.97	0.849	6.79	0.56	-1
	15.41	15:25	150	4.86	10.02	0.853	6.77	0.57	-5
85-2	13.30	15:50	100	2.38	12.01	2.821	7.29	0.45	-126
	13.30	15:55	100	NA	12.04	2.820	7.35	0.46	-139
	13.30	16:00	100	NA	11.95	2.823	7.37	0.38	-147
	13.30	16:05	100	NA	11.99	2.823	7.39	0.31	-157
	13.30	16:10	100	NA	12.03	2.824	7.42	0.33	-162
	13.30	16:15	100	1.32	12.19	2.823	7.44	0.32	-163
85-3	19.8	13:45	120	7.60	18.74	1.282	7.17	0.21	-158
	19.8	13:50	120	4.73	18.73	1.282	7.17	0.22	-149
	19.8	13:55	120	4.58	18.74	1.284	7.17	0.20	-153
85-5B	20.07	13:50	NA	2.45	21.10	1.482	7.86	0.38	-146
	20.07	13:55	NA	NA	21.20	1.482	7.85	0.3	-150
	20.07	14:00	NA	NA	21.38	1.487	7.82	0.24	-153
	20.07	14:05	NA	NA	21.46	1.499	7.78	0.22	-155
	20.07	14:10	NA	2.27	21.49	1.509	7.76	0.23	-152
85-6	17.99	14:55	100	4.23	11.71	4.751	7.35	7.73	59
	17.99	15:00	100	NA	11.73	4.551	7.36	7.66	62
	17.99	15:05	100	NA	11.69	4.410	7.36	7.54	62
	17.99	15:10	100	NA	11.64	4.302	7.34	7.23	65
	17.99	15:15	100	NA	11.63	4.279	7.35	7.4	64
	17.99	15:20	100	4.33	11.65	4.272	7.35	7.46	64
85-7	19.36	15:15	100	3.70	14.66	1.844	7.37	0.80	167
	19.36	15:25	100	NA	14.72	1.845	7.33	0.5	166
	19.36	15:30	100	3.75	14.67	1.850	7.34	0.42	168
	19.36	15:35	100	2.91	14.51	1.850	7.33	0.43	166
	19.36	15:40	100	3.29	14.59	1.850	7.33	0.40	164
86-1	19.95	11:10	120	15.90	10.89	1.648	7.03	6.1	43
	19.95	11:15	120	7.80	10.85	1.659	7.03	6.11	42
	19.95	11:20	120	8.04	10.86	1.659	7.03	6.21	42
	19.95	11:25	120	7.76	10.90	1.660	7.03	6.20	42

**Notes:**

ft. BTOR - feet below top of riser  
NA - Not Available

TABLE 3  
GROUNDWATER QUALITY PARAMETERS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Turbidity (NTU)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>pH (Units)</i>	<i>DO (mg/L)</i>	<i>ORP (mv)</i>
86-2	21.95	09:40	100	23.40	19.86	1.322	7.22	2.39	-1
	21.95	09:45	100	21.10	19.86	1.325	7.21	2.51	3
	21.95	09:50	100	21.20	19.86	1.329	7.20	2.42	7
86-3	19.35	14:25	100	3.60	12.69	2.476	7.31	0.21	-59
	19.35	14:30	100	NA	12.84	2.455	7.31	0.20	-62
	19.35	14:35	100	4.10	12.74	2.494	7.30	0.22	-63
87-1	21.17	10:10	120	5.17	21.63	1.648	7.22	2.36	125
	21.17	10:15	120	5.00	21.65	1.659	7.22	0.40	110
	21.17	10:20	120	4.75	21.66	1.659	7.22	0.38	106
	21.17	10:25	120	4.08	21.67	1.660	7.22	0.40	101
87-2	20.28	09:20	100	14.8	18.60	1.217	7.26	0.26	-155
	20.28	09:25	100	10	18.61	1.225	7.26	0.28	-150
	20.28	09:30	100	6.13	18.61	1.236	7.25	0.16	-149
	20.28	09:35	100	4.53	18.61	1.240	7.25	0.18	-139
	20.28	09:40	100	3.49	18.62	1.241	7.24	0.16	-134
	20.28	09:45	100	3.77	18.61	1.242	7.25	0.15	-136
87-4	21.31	08:30	100	13.00	18.41	1.276	7.33	1.98	155
	21.31	08:35	100	11.50	18.59	1.276	7.33	2.47	147
	21.31	08:40	100	8.17	18.78	1.281	7.35	2.76	147
	21.31	08:45	100	7.07	18.81	1.283	7.35	3.26	151
	21.31	08:50	100	5.66	18.83	1.284	7.36	3.14	150
	21.31	08:55	100	4.53	18.90	1.287	7.34	3.27	152
87-5	21.05	9:05	150	3.44	19.55	1.167	6.98	0.17	-68
	21.05	9:10	150	NA	19.55	1.162	7.00	0.17	-70
	21.05	9:15	150	3.79	19.55	1.171	7.02	0.17	-71

**Notes:**

ft. BTOR - feet below top of riser  
NA - Not Available

TABLE 3  
GROUNDWATER QUALITY PARAMETERS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Monitoring Well Location	Water Level (ft. BTOR)	Time (hours:minutes)	Purge Rate (mL/per min.)	Turbidity (NTU)	Temperature (°C)	Conductivity (mS/cm)	pH (Units)	DO (mg/L)	ORP (mv)
87-8	18.79	14:45	100	1.78	10.2	1.958	8.3	1.3	125
	18.79	14:50	100	NA	10.23	1.966	8.25	1.41	124
	18.79	14:55	100	NA	10.18	2.021	7.94	2.86	129
	18.79	15:00	100	NA	10.1	2.071	7.57	4.62	137
	18.79	15:05	100	NA	10.04	2.084	7.53	4.56	139
	18.79	15:10	100	1.08	10.07	2.087	7.5	4.77	141
87-9	15.50	13:55	120	0.85	12.62	1.419	7.50	0.59	169
	15.50	14:00	120	NA	12.51	1.394	7.46	0.75	162
	15.50	14:05	120	NA	12.58	1.372	7.36	1.40	157
	15.50	14:10	120	NA	12.72	1.364	7.35	1.41	154
	15.50	14:15	120	0.76	12.86	1.367	7.33	1.36	151
87-10	11.55	9:25	100	3.63	11.21	1.514	7.12	0.95	263
	11.55	9:30	100	NA	11.41	1.512	7.10	0.54	260
	11.55	9:35	100	NA	11.54	1.512	7.10	0.50	257
	11.55	9:40	100	NA	11.38	1.518	7.10	0.49	254
87-11	10.50	9:10	100	4.73	9.80	1.561	7.26	0.55	-11
	10.50	9:15	100	NA	10.11	1.560	7.23	0.50	-10
	10.50	9:20	100	NA	10.29	1.569	7.21	0.42	-11
	10.50	9:25	100	NA	10.41	1.575	7.20	0.37	-10
	10.50	9:30	100	NA	10.43	1.577	7.18	0.35	-7
	10.50	9:35	100	2.03	10.38	1.579	7.17	0.34	-6
87-13	10.44	8:10	100	2.95	10.21	1.749	7.15	0.48	26
	10.44	8:15	100	NA	10.23	1.754	7.17	0.46	29
	10.44	8:20	100	2.11	10.18	1.760	7.19	0.45	27
88-2	11.57	13:05	100	0.83	11.00	1.712	7.12	1.01	140
	11.57	13:10	100	0.66	10.99	1.692	7.11	0.62	125
	11.57	13:20	100	0.61	11.25	1.679	7.10	0.49	114
	11.57	13:25	100	0.51	11.14	1.677	7.09	0.50	112
	11.57	13:30	100	0.59	10.96	1.679	7.10	0.47	112
88-3	10.88	13:55	100	1.59	9.94	0.934	7.58	4.49	117
	10.88	14:00	100	1.26	10.11	0.862	7.58	4.56	121
	10.88	14:05	100	1.16	10.06	0.860	7.59	4.61	122
	10.88	14:10	100	1.27	10.07	0.859	7.61	4.68	122
88-4	8.38	14:40	100	5.23	11.43	2.995	7.72	0.33	101
	8.38	14:45	100	4.94	11.27	3.005	7.64	0.29	99
	8.38	14:50	100	4.79	11.09	3.011	7.62	0.27	97
	8.38	14:55	100	4.50	11.08	3.016	7.6	0.28	96

**Notes:**

ft. BTOR - feet below top of riser  
NA - Not Available

TABLE 4  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Location Name	85-1	85-2	85-3	85-5B	85-6	85-7	86-1	86-1	86-2	86-3	87-1	87-1	87-2	87-4	87-5	87-8	87-9
Sample Identification (GW-17360-	040709-DR-257	040609-DR-238	040809-DR-271	040809-DR-272	040809-DR-273	040609-DR-240	040809-DR-269	040809-DR-270	040809-DR-264	040709-DR-255	040809-DR-266	040809-DR-267	040809-DR-265	040809-DR-262	040809-DR-263	040709-DR-256	040709-DR-253
Sample Date	4/7/2009	4/6/2009	4/8/2009	4/8/2009	4/8/2009	4/6/2009	4/8/2009	4/8/2009	4/8/2009	4/7/2009	4/8/2009	4/8/2009	4/8/2009	4/8/2009	4/8/2009	4/7/2009	4/7/2009
Sample Type								Duplicate				Duplicate					
	<i>Units</i>																
<i>Semi-Volatile Organic Compounds</i>																	
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	0.016 U	0.016 U	0.004 U	--	0.004 U	0.004 U	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	0.04 U	0.04 U	0.01 U	--	0.01 U	0.01 U	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	0.016 U	0.016 U	0.004 U	--	0.004 U	0.004 U	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	0.04 U	0.04 U	0.01 U	--	0.01 U	0.01 U	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	0.004 U	0.004 U	0.001 U	--	0.001 U	0.001 U	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	0.008 U	0.008 U	0.002 U	--	0.002 U	0.002 U	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	0.008 U	0.008 U	0.002 U	--	0.002 U	0.002 U	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Biphenyl	mg/L	--	--	0.04 U	0.04 U	0.01 U	--	0.01 U	0.01 U	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	0.016 U	0.016 U	0.004 U	--	0.004 U	0.004 U	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	0.02 U	0.02 U	0.00096 J	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	0.04 U	0.04 U	0.01 U	--	0.01 U	0.01 U	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	0.04 U	0.04 U	0.01 U	--	0.01 U	0.01 U	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	0.008 U	0.008 U	0.002 U	--	0.002 U	0.002 U	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	0.02 U	0.00091 J	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	0.008 U	0.008 U	0.002 U	--	0.002 U	0.002 U	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	0.016 U	0.016 U	0.004 U	--	0.004 U	0.004 U	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	0.08 U	0.08 U	0.02 U	--	0.02 U	0.02 U	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	0.02 U	0.02 U	0.005 U	--	0.005 U	0.005 U	--	--	--	--	--	--	--	--



TABLE 4  
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GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Location Name	87-10	87-11	87-13	88-2	88-2	88-3	88-4	C-1	C-2	C-3	MW1-03	MW2-03	MW3-03	MW4-03	MW5-03	MW6-03
Sample Identification (GW-17360-	040709-DR-246	040709-DR-243	040709-DR-241	040609-DR-230	040609-DR-231	040609-DR-232	040609-DR-233	040609-DR-235	040609-DR-236	040609-DR-237	040709-DR-259	040809-DR-274	040709-DR-258	040709-DR-249	040709-DR-245	040709-DR-242
Sample Date	4/7/2009	4/7/2009	4/7/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/7/2009	4/8/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009
Sample Type					Duplicate											
	<i>Units</i>															
<i>Semi-Volatile Organic Compounds</i>																
2,2-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biphenyl	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 GENERAL MOTORS CORPORATION  
 GRAND RAPIDS METAL PLANT  
 WYOMING, MICHIGAN

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Sample Date	4/7/2009	4/7/2009	4/7/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/6/2009	4/7/2009	4/8/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009
Sample Type					Duplicate											
	<i>Units</i>															
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/L	0.001 U	0.0016 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00026 J	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.00038 J	0.00082 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.00029 J	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.056 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.042 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.28 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.084 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.56 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.084 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.56 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.042 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.28 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.00038 J	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.00042 J	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.0017 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.011 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.056 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.00038 J	0.0015	0.00024 J	0.00081 J
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.0016	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0019	0.002	0.0034	0.003 J	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.0017 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.011 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Cyclohexane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.0017 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.011 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.056 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.017 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.11 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.056 U	0.005 U	0.005 U	0.026	0.00087 J
Methylene chloride	mg/L	0.005 U	0.0084 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.056 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.00031 J	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0082	0.0027	0.0061	0.38 J	0.0091	0.001	0.00062 J	0.0006 J	0.001 U
Toluene	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0004 J	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.0017 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.011 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ
Trichloroethene	mg/L	0.011	0.043	0.00094 J	0.001 U	0.001 U	0.001 U	0.001 U	0.0013	0.00096 J	0.0013	0.0073 J	0.00029 J	0.001 U	0.00096 J	0.0017
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U
Trifluorotrchloroethane (Freon 113)	mg/L	0.001 U	0.0017 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.011 U	0.001 UJ	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.0023	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00029 J	0.00057 J	0.011 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.0033 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.022 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:  
 U-Not present at or above the associated value.  
 J-Estimated concentration.  
 UJ-Estimated reporting limit.

TABLE 4  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS  
APRIL 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

Location Name	MW7-03	MW8-04	MW9-04	MW9-04	MW10-04	MW11D-04	MW11S-05	MW13-04	MW14-04	MW15-04	MW17-06	Trip Blank	Trip Blank
Sample Identification (GW-17360-	040709-DR-254	040709-DR-244	040709-DR-247	040709-DR-248	040709-DR-250	040709-DR-252	040709-DR-251	040809-DR-268	040809-DR-261	040609-DR-239	040609-DR-234	040709-DR-260	040809-DR-275
Sample Date	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/8/2009	4/8/2009	4/6/2009	4/6/2009	4/7/2009	4/8/2009
Sample Type				Duplicate									
	<i>Units</i>												
<i>Semi-Volatile Organic Compounds</i>													
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Biphenyl	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--

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GENERAL MOTORS CORPORATION  
GRAND RAPIDS METAL PLANT  
WYOMING, MICHIGAN

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Sample Identification (GW-17360-)	040709-DR-254	040709-DR-244	040709-DR-247	040709-DR-248	040709-DR-250	040709-DR-252	040709-DR-251	040809-DR-268	040809-DR-261	040609-DR-239	040609-DR-234	040709-DR-260	040809-DR-275	
Sample Date	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/7/2009	4/8/2009	4/8/2009	4/6/2009	4/6/2009	4/7/2009	4/8/2009	
Sample Type	Duplicate													
	Units													
<i>Volatile Organic Compounds</i>														
1,1,1-Trichloroethane	mg/L	0.00042 J	0.001 U	0.001 U	0.001 U	0.00064 J	0.001 U	0.001 U	0.001 U	0.001 U	0.0036	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00025 J	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00025 J	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.00038 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.00022 J	0.001 U	0.001 U	0.001 U	0.00015 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.0013	0.00017 J	0.00029 J	0.00029 J	0.0014	0.00016 J	0.001 U	0.00039 J	0.00051 J	0.00043 J	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.031	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.0044 J	0.0044 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.00048 J	0.00048 J	0.001 U	0.00054 J	0.001 U	0.001 U	0.001 U	0.00054 J	0.024	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00097 J	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Trichloroethene	mg/L	0.00092 J	0.00055 J	0.00063 J	0.00062 J	0.0013	0.0024	0.00058 J	0.001 U	0.0016	0.0015	0.0066	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:  
U-Not present at or above the associated value.  
J-Estimated concentration.  
UJ-Estimated reporting limit.

ATTACHMENT A  
ANALYTICAL DATA

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

PROJECT NO. 17360

GM GRAND RAPIDS SSOW# E030020

SDG #: 9D08156

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TESTAMERICA LABORATORIES, INC.



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Project Manager

April 23, 2009

# ***CASE NARRATIVE***

## **CASE NARRATIVE**

9D08156

The following report contains the analytical results for forty-four water samples and two quality control samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the GM Grand Rapids SSOW# E030020 Site, project number 17360. The samples were received April 08, 2009 and April 09, 2009, according to documented sample acceptance procedures. A revised chain of custody was received on April 16, 2009.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

### **SUPPLEMENTAL QC INFORMATION**

#### **SAMPLE RECEIVING**

The temperatures of the coolers upon sample receipt were 2.2, 3.1, and 3.9°C.

## **CASE NARRATIVE (continued)**

### **GC/MS VOLATILES**

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for GW-17360-040609-DR-238, GW-17360-040709-DR-259 and GW-17360-040809-DR-261 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

### **GC/MS SEMIVOLATILES**

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 9100037 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) GW-17360-040809-DR-271 and GW-17360-040809-DR-272 had elevated reporting limits due to matrix interferences.

## QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

### QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

### LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

### METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<b><u>Volatile (GC or GC/MS)</u></b>	<b><u>Semivolatile (GC/MS)</u></b>	<b><u>Metals ICP-MS</u></b>	<b><u>Metals ICP Trace</u></b>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

## QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

### **MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

### **SURROGATE COMPOUNDS**

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



### **TestAmerica Certifications and Approvals:**

*The laboratory is certified for the analytes listed on the documents below. These are available upon request.*  
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),  
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada  
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,  
ARMY, USDA Soil Permit

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# ***EXECUTIVE SUMMARY***

# EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D080156

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
<b>GW-17360-040609-DR-232 04/06/09 14:10 003</b>				
Bromodichloromethane	0.38 J	1.0	ug/L	SW846 8260B
Chloroform	4.0	1.0	ug/L	SW846 8260B
<b>WS-17360-040609-DR-235 04/06/09 12:40 005</b>				
cis-1,2-Dichloroethene	1.9	1.0	ug/L	SW846 8260B
Tetrachloroethene	8.2	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
<b>WS-17360-040609-DR-236 04/06/09 12:50 006</b>				
cis-1,2-Dichloroethene	2.0	1.0	ug/L	SW846 8260B
Tetrachloroethene	2.7	1.0	ug/L	SW846 8260B
Trichloroethene	0.96 J	1.0	ug/L	SW846 8260B
Vinyl chloride	0.29 J	1.0	ug/L	SW846 8260B
<b>WS-17360-040609-DR-237 04/06/09 13:00 007</b>				
cis-1,2-Dichloroethene	3.4	1.0	ug/L	SW846 8260B
Tetrachloroethene	6.1	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.26 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
Vinyl chloride	0.57 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040609-DR-238 04/06/09 16:15 008</b>				
1,1-Dichloroethane	0.81 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.55 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.24 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	5.3	1.0	ug/L	SW846 8260B
Trichloroethene	0.99 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040609-DR-239 04/06/09 15:45 009</b>				
Chloroform	0.43 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.25 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.25 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	3.6	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B

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## EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D080156

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>GW-17360-040609-DR-240 04/06/09 15:40 010</b>				
cis-1,2-Dichloroethene	0.39 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-241 04/07/09 08:20 011</b>				
Trichloroethene	0.94 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-242 04/07/09 08:50 012</b>				
Chloroform	0.18 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-243 04/07/09 09:35 013</b>				
1,1-Dichloroethane	0.82 J	1.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	15	1.7	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.6 J	1.7	ug/L	SW846 8260B
Trichloroethene	43	1.7	ug/L	SW846 8260B
Vinyl chloride	2.3	1.7	ug/L	SW846 8260B
<b>GW-17360-040709-DR-244 04/07/09 08:35 014</b>				
Chloroform	0.17 J	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.55 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-245 04/07/09 09:00 015</b>				
Chloroform	0.81 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.87 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.60 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.7	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-246 04/07/09 09:40 016</b>				
1,1-Dichloroethane	0.38 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.29 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.6	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.40 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.31 J	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B

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## EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D080156

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>GW-17360-040709-DR-247 04/07/09 10:25 017</b>				
Chloroform	0.29 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	4.4 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.48 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.63 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-248 04/07/09 10:30 018</b>				
Chloroform	0.29 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	4.4 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.46 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.62 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-249 04/07/09 10:35 019</b>				
Chloroform	0.24 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	26	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.62 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.96 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-250 04/07/09 11:15 020</b>				
Bromodichloromethane	0.15 J	1.0	ug/L	SW846 8260B
Chloroform	1.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.64 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-251 04/07/09 12:00 021</b>				
Trichloroethene	0.58 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-252 04/07/09 12:05 022</b>				
Chloroform	0.16 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.54 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.4	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-253 04/07/09 14:15 023</b>				
Chloroform	1.2	1.0	ug/L	SW846 8260B
Trichloroethene	0.80 J	1.0	ug/L	SW846 8260B

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## EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D080156

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>GW-17360-040709-DR-254 04/07/09 14:05 024</b>				
Bromodichloromethane	0.22 J	1.0	ug/L	SW846 8260B
Chloroform	1.3	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.42 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.92 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-255 04/07/09 14:35 025</b>				
1,1-Dichloroethane	0.39 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.5	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.38 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.69 J	5.0	ug/L	SW846 8260B
Trichloroethene	4.5	1.0	ug/L	SW846 8260B
Vinyl chloride	0.25 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-256 04/07/09 15:10 026</b>				
Methyl tert-butyl ether	1.3 J	5.0	ug/L	SW846 8260B
Trichloroethene	0.38 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-257 04/07/09 15:25 027</b>				
cis-1,2-Dichloroethene	1.6	1.0	ug/L	SW846 8260B
Vinyl chloride	1.1	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-258 04/07/09 16:00 028</b>				
Bromodichloromethane	0.42 J	1.0	ug/L	SW846 8260B
Chloroform	1.5	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.0	1.0	ug/L	SW846 8260B
<b>GW-17360-040709-DR-259 04/07/09 15:45 029</b>				
cis-1,2-Dichloroethene	3.0 J	11	ug/L	SW846 8260B
Tetrachloroethene	380	11	ug/L	SW846 8260B
Trichloroethene	7.3 J	11	ug/L	SW846 8260B
<b>GW-17360-040609-DR-234 04/06/09 15:40 030</b>				
cis-1,2-Dichloroethene	31	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.97 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	24	1.0	ug/L	SW846 8260B
Trichloroethene	6.6	1.0	ug/L	SW846 8260B

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## EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D090186

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>GW-17360-040809-DR-261 04/08/09 08:35 001</b>				
Chloroform	0.51 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-262 04/08/09 08:55 002</b>				
Chloroform	0.27 J	1.0	ug/L	SW846 8260B
Methylcyclohexane	0.51 J	1.0	ug/L	SW846 8260B
Trichloroethene	5.8	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-263 04/08/09 09:15 003</b>				
1,1-Dichloroethane	4.0	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	4.0	1.0	ug/L	SW846 8260B
Trichloroethene	0.44 J	1.0	ug/L	SW846 8260B
Vinyl chloride	25	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-264 04/08/09 09:50 004</b>				
Chloroform	0.37 J	1.0	ug/L	SW846 8260B
Trichloroethene	6.4	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-265 04/08/09 09:45 005</b>				
cis-1,2-Dichloroethene	17	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.8	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.37 J	5.0	ug/L	SW846 8260B
Trichloroethene	14	1.0	ug/L	SW846 8260B
Vinyl chloride	12	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-266 04/08/09 10:25 006</b>				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.50 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	15	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	2.4	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
Vinyl chloride	16	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-267 04/08/09 10:30 007</b>				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.55 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	15	1.0	ug/L	SW846 8260B

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# EXECUTIVE SUMMARY - Detection Highlights

9D08156 : A9D090186

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>GW-17360-040809-DR-267 04/08/09 10:30 007</b>				
trans-1,2-Dichloroethene	2.5	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
Vinyl chloride	17	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-268 04/08/09 11:20 008</b>				
Chloroform	0.39 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-271 04/08/09 13:55 011</b>				
Acetone	9.1 J	25	ug/L	SW846 8260B
2-Butanone	0.97 J	25	ug/L	SW846 8260B
Carbon disulfide	0.87 J	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.36 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	4.8 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.99 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.28 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-272 04/08/09 14:10 012</b>				
Fluoranthene	0.91 J	20	ug/L	SW846 8270C
Acetone	14 J	25	ug/L	SW846 8260B
2-Butanone	2.2 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.9	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.31 J	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	0.64 J	50	ug/L	SW846 8260B
Trichloroethene	0.63 J	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-273 04/08/09 15:20 013</b>				
bis(2-Ethylhexyl) phthalate	0.96 J	5.0	ug/L	SW846 8270C
Methyl tert-butyl ether	2.0 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.0	1.0	ug/L	SW846 8260B
<b>GW-17360-040809-DR-274 04/08/09 15:15 014</b>				
Chloroform	0.38 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	9.1	1.0	ug/L	SW846 8260B
Trichloroethene	0.29 J	1.0	ug/L	SW846 8260B

# ***METHOD SUMMARY***

# ANALYTICAL METHODS SUMMARY

9D08156

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

## References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# *SAMPLE SUMMARY*

# SAMPLE SUMMARY

9D08156 : A9D080156

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K9QT0	001	GW-17360-040609-DR-230	04/06/09	13:30
K9QVN	002	GW-17360-040609-DR-231	04/06/09	13:35
K9QVP	003	GW-17360-040609-DR-232	04/06/09	14:10
K9QVT	004	GW-17360-040609-DR-233	04/06/09	14:55
K9QVV	005	WS-17360-040609-DR-235	04/06/09	12:40
K9QV1	006	WS-17360-040609-DR-236	04/06/09	12:50
K9QV3	007	WS-17360-040609-DR-237	04/06/09	13:00
K9QV4	008	GW-17360-040609-DR-238	04/06/09	16:15
K9QV6	009	GW-17360-040609-DR-239	04/06/09	15:45
K9QV7	010	GW-17360-040609-DR-240	04/06/09	15:40
K9QV8	011	GW-17360-040709-DR-241	04/07/09	08:20
K9QWF	012	GW-17360-040709-DR-242	04/07/09	08:50
K9QWH	013	GW-17360-040709-DR-243	04/07/09	09:35
K9QWK	014	GW-17360-040709-DR-244	04/07/09	08:35
K9QWM	015	GW-17360-040709-DR-245	04/07/09	09:00
K9QWQ	016	GW-17360-040709-DR-246	04/07/09	09:40
K9QWW	017	GW-17360-040709-DR-247	04/07/09	10:25
K9QW1	018	GW-17360-040709-DR-248	04/07/09	10:30
K9QW2	019	GW-17360-040709-DR-249	04/07/09	10:35
K9QW4	020	GW-17360-040709-DR-250	04/07/09	11:15
K9QW7	021	GW-17360-040709-DR-251	04/07/09	12:00
K9QW8	022	GW-17360-040709-DR-252	04/07/09	12:05
K9QW9	023	GW-17360-040709-DR-253	04/07/09	14:15
K9QXD	024	GW-17360-040709-DR-254	04/07/09	14:05
K9QXF	025	GW-17360-040709-DR-255	04/07/09	14:35
K9QXH	026	GW-17360-040709-DR-256	04/07/09	15:10
K9QXK	027	GW-17360-040709-DR-257	04/07/09	15:25
K9QXM	028	GW-17360-040709-DR-258	04/07/09	16:00
K9QXP	029	GW-17360-040709-DR-259	04/07/09	15:45
K9QXT	030	GW-17360-040609-DR-234	04/06/09	15:40
K9Q0A	031	TB-17360-040709-DR-260	04/07/09	16:15

## NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

# SAMPLE SUMMARY

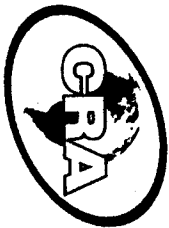
9D08156 : A9D090186

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K9VE3	001	GW-17360-040809-DR-261	04/08/09	08:35
K9VGR	002	GW-17360-040809-DR-262	04/08/09	08:55
K9VGX	003	GW-17360-040809-DR-263	04/08/09	09:15
K9VG0	004	GW-17360-040809-DR-264	04/08/09	09:50
K9VG1	005	GW-17360-040809-DR-265	04/08/09	09:45
K9VG8	006	GW-17360-040809-DR-266	04/08/09	10:25
K9VHC	007	GW-17360-040809-DR-267	04/08/09	10:30
K9VHF	008	GW-17360-040809-DR-268	04/08/09	11:20
K9VHG	009	GW-17360-040809-DR-269	04/08/09	11:25
K9VHM	010	GW-17360-040809-DR-270	04/08/09	11:35
K9VHT	011	GW-17360-040809-DR-271	04/08/09	13:55
K9VHX	012	GW-17360-040809-DR-272	04/08/09	14:10
K9VH0	013	GW-17360-040809-DR-273	04/08/09	15:20
K9VH2	014	GW-17360-040809-DR-274	04/08/09	15:15
K9VH4	015	TB-17360-040809-DR-275	04/08/09	15:30

## **NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING  
AND  
RECEIVING DOCUMENTS***



**CONESTOGA-ROVERS & ASSOCIATES**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Required Client Information:**

Company: CRA, Inc.	Report To: P. Wiseman
Address: 14496 Sheldon Rd.	Copy To: L. Clark
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: <i>Gm-Grid Road</i>
Fax: 734-453-5201	Project Number: 17360-10
Email:	

PAGE   3   OF   3  

Laboratory: <i>TEST AMERICA</i>
Laboratory Location: <i>N. Canton, OH</i>
Laboratory Contact: <i>D. Hedder</i>
Requested Due Date: <i>TAT: STD</i>
QA/QC Requirements:

ID # **No D 6090**  
 SSO# Ref. Code: **E030020**

**Sample Identification:**

Sample Identification:	Valid Matrix Codes: WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment See Back for Additional Codes	Matrix Code	Date Collected	Time Collected	# Containers	Preservative							Analysis and Method	Remarks/Lab ID
						Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:			
1. <i>GW-17360-046609-DR-230</i>		<i>WG</i>	<i>4-6-09</i>	<i>1330</i>	<i>3</i>							<i>MS/MSD</i>		
2.	<i>-231</i>			<i>1335</i>	<i>3</i>							<i>MS/MSD</i>		
3.	<i>-232</i>			<i>1410</i>	<i>3</i>							<i>MS/MSD</i>		
4.	<i>-233</i>			<i>1455</i>	<i>3</i>							<i>MS/MSD</i>		
5.	<i>-235</i>			<i>1240</i>	<i>3</i>							<i>MS/MSD</i>		
6.	<i>-236</i>			<i>1250</i>	<i>3</i>							<i>MS/MSD</i>		
7.	<i>-237</i>			<i>1300</i>	<i>3</i>							<i>MS/MSD</i>		
8.	<i>-238</i>			<i>1615</i>	<i>9</i>							<i>MS/MSD</i>		
9.	<i>-239</i>			<i>1545</i>	<i>3</i>							<i>MS/MSD</i>		
10.	<i>-240</i>			<i>1540</i>	<i>3</i>							<i>MS/MSD</i>		
11.	<i>-090709-DR-241</i>			<i>8220</i>	<i>3</i>							<i>MS/MSD</i>		
12.	<i>-242</i>			<i>850</i>	<i>3</i>							<i>MS/MSD</i>		
13.	<i>-243</i>			<i>935</i>	<i>3</i>							<i>MS/MSD</i>		
14.	<i>-244</i>			<i>835</i>	<i>3</i>							<i>MS/MSD</i>		
15.	<i>-245</i>			<i>900</i>	<i>3</i>							<i>MS/MSD</i>		

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
<i>FED EX</i>	<i>1</i>	<i>Philly / env</i>	<i>4/7/09</i>	<i>1800</i>	<i>A. Madhry TAINC</i>	<i>4/8/09</i>	<i>9:40am</i>

**Sample Condition**

Temp in C	Y/N
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

**Additional Comments:**

Sampler Name: *D. Rivers / E. Varas / J. York*  
 Sampler Signature: *D. Rivers* Date: *4/7/09*

Distribution: WHITE - Fully Executed Copy    YELLOW - Receiving Laboratory Copy    PINK - Shipper    GOLDENROD - Sampler Copy    REV. 01/04/04



CONESTOGA-ROVERS  
ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain of Custody is a critical document in the laboratory field and is essential to the accuracy of the results.

PAGE 1 OF 3

Required Client Information:

Company: CRA, Inc. Report To: P. Wilmot  
 Address: 1496 Sheldon Rd. Copy To: L. Clark  
 Suite 200 Plymouth, MI 48170 Invoice To:  
 Phone: 734-453-5123 Project Name: GM - Grand Rapids  
 Fax: 734-453-5201 Project Number: 17360-10  
 Email:

Laboratory: TEST AMERICA  
 Laboratory Location: N. Canton, OH  
 Laboratory Contact: D. Keller TAT: STD  
 Requested Date Date: 4/7/09  
 QA/QC Requirements:

ID# **№ D 6090**

SSOW Ref. Code: **E030020**

Matrix Code

Date Collected

Time Collected

# Containers

Unpreserved

HCl

H2SO4

HNO3

NaOH

Other:

Preservative

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:
1. RW-17360-046609-DR-230	MS	4-6-09	1330	3						
2.										
3.										
4.										
5.	MS									
6.	MS									
7.	MS									
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										

SHIPMENT METHOD: FEDEX NO. OF COOLERS: 1 RELINQUISHED BY / AFFILIATION: D. Keller / CRA

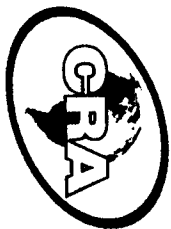
AIRBILL NO. \_\_\_\_\_ DATE: 4/7/09 TIME: 1800 RECEIVED BY / AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

Sample Conditions:

Temp in C	Y/N
Received on Ice	Y/N
Sealed Cooler	Y/N
Sampler Intact	Y/N

Additional Comments: \_\_\_\_\_

Signature Name: D. Keller / E. Verms / J. York  
 Sampler Signature: D. Keller Date: 4/7/09



**CONESTOGA-ROVERS & ASSOCIATES**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ID # **No D 6091**

SSOW Ref. Code: **E6302-20**

**Required Client Information:**

Company: CRA, Inc. Report To: *P. W. Isener*  
 Address: 1496 Sheldon Rd. Copy To: *L. Clark*  
 Suite 200 Invoice To:  
 Plymouth, MI 48170 P.O.:

Phone: 734-453-5123 Project Name: *GM-Grand Rapids*  
 Fax: 734-453-5201 Project Number: *17360-10*  
 Email:

Laboratory: **TEST AMERICA**  
 Laboratory Location: *N. Canton, OH*  
 Laboratory Contact: *D. Heider*  
 Requested Due Date: TAT: *STD*  
 QA/QC Requirements:

Valid Matrix Codes:  
 WG Groundwater  
 WB Borehole Water  
 WS Surface Water  
 SO Soil  
 SE Sediment  
 See Back for Additional Codes

Matrix Code: **WG**  
 Date Collected: *4-7-09*  
 Time Collected: *9:40*  
 # Containers: **3**  
 Unpreserved: **3**  
 HCl: **3**  
 H2SO4: **3**  
 HNO3: **3**  
 NaOH: **3**  
 Other: **TU VOCs**

Preservative

Analysis and Method

Remarks/Lab ID

Sample Identification:	Valid Matrix Codes:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method	Remarks/Lab ID
1. <i>GW-17360-040769-DP-246</i>		<b>WG</b>	<i>4-7-09</i>	<i>9:40</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>TU VOCs</b>		
2. <i>-247</i>				<i>10:25</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
3. <i>-248</i>				<i>10:30</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
4. <i>-249</i>				<i>10:35</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
5. <i>-250</i>				<i>11:15</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
6. <i>-251</i>				<i>12:00</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
7. <i>-252</i>				<i>12:05</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
8. <i>-253</i>				<i>14:15</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
9. <i>-254</i>				<i>14:05</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
10. <i>-255</i>				<i>14:35</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
11. <i>-256</i>				<i>15:10</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
12. <i>-257</i>				<i>15:15</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
13. <i>-258</i>				<i>16:00</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
14. <i>-259</i>				<i>18:05</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		
15. <i>GW-17360-040609-DP-234</i>			<i>4-6-09</i>	<i>15:40</i>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>X</b>		

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD: *FEDEX* NO. OF COOLERS: *1* RELINQUISHED BY / AFFILIATION: *D. Burns / CRA* DATE: *4/7/09* TIME: *18:00* RECEIVED BY / AFFILIATION: *J. Madley / TAIVE* DATE: *4/8/09* TIME: *9:40am*

AIRBILL NO. \_\_\_\_\_

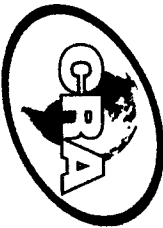
Sample Condition:  
 Temp in C: Y/N  
 Received on Ice: Y/N  
 Sealed Cooler: Y/N  
 Samples Intact: Y/N

Additional Comments: \_\_\_\_\_

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

Sample Name: *D. Burns / J. York* Date: *4-7-09*

Sampler Signature: *D. Burns*



**CONESTOGA-ROVERS & ASSOCIATES**

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 3 OF 3

ID # **No D 6093**

SSOW Ref. Code: **EO 30020**

**Required Client Information:**

Company: CRA, Inc.	Report To: <i>P. Wiseman</i>
Address: 14496 Sheldon Rd.	Copy To: <i>L. Clark</i>
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: <i>GM Grand Rapids</i>
Fax: 734-453-5201	Project Number: <i>17960-10</i>
Email:	

Laboratory: <i>TEST AMERICA</i>
Laboratory Location: <i>N. Canton OH</i>
Laboratory Contact: <i>D. Heckler</i>
Requested Due Date: <i>TAT: STD</i>
QA/QC Requirements:

Valid Matrix Codes:  
 WG Groundwater  
 WB Borehole Water  
 WS Surface Water  
 SO Soil  
 SE Sediment  
 See Back for Additional Codes

Matrix Code

Date Collected

Time Collected

# Containers

Unpreserved

HCl

H2SO4

HNO3

NaOH

Other:

Preservative

*TCL VOCs*

Analysis and Method

Remarks/Lab ID

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method	Remarks/Lab ID
1. <i>TB-17300-040709-DR-200</i>	<i>WG</i>	<i>7-20-09</i>	<i>1615</i>	<i>1</i>	<i>1</i>							
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD <i>Ferry</i>	NO. OF COOLERS <i>1</i>	RELINQUISHED BY / AFFILIATION <i>DMars / CNA</i>	DATE <i>7-20-09</i>	TIME <i>1800</i>	RECEIVED BY / AFFILIATION <i>A. Madhup Taluk</i>	DATE <i>7/20/09</i>	TIME <i>9:40am</i>
AIRBILL NO.							
Sample Condition							
Temp in C	Y/N	Additional Comments:					
Received on Ice	Y/N						
Sealed Cooler	Y/N						
Samples Intact	Y/N						

Sample Name: *D. Rivers / Yankee*  
 Sample Signature: *DMars*  
 Date: *7-20-09*

Distribution: WHITE - Fully Executed Copy    YELLOW - Receiving Laboratory Copy    PINK - Shipper    GOLDENROD - Sampler Copy

**TestAmerica Cooler Receipt Form/Narrative**

Lot Number: A9D080156

**North Canton Facility**

Client GM-Grand Rapids Project \_\_\_\_\_ By: [Signature]

Cooler Received on 4/8/09 Opened on 4/8/09 (Signature)

FedEx  UPS  DHL  FAS  Stetson  Client Drop Off  TestAmerica Courier  Other \_\_\_\_\_

TestAmerica Cooler # 241-245 Multiple Coolers  Foam Box  Client Cooler  Other \_\_\_\_\_

1. Were custody seals on the outside of the cooler(s)? Yes  No  Intact? Yes  No  NA   
 If YES, Quantity \_\_\_\_\_ Quantity Unsalvageable \_\_\_\_\_

Were custody seals on the outside of cooler(s) signed and dated? Yes  No  NA

Were custody seals on the bottle(s)? Yes  No

If YES, are there any exceptions? \_\_\_\_\_

2. Shippers' packing slip attached to the cooler(s)? Yes  No

3. Did custody papers accompany the sample(s)? Yes  No  Relinquished by client? Yes  No

4. Were the custody papers signed in the appropriate place? Yes  No

5. Packing material used: Bubble Wrap  Foam  None  Other \_\_\_\_\_

6. Cooler temperature upon receipt 2.2 °C See back of form for multiple coolers/temps

METHOD: IR  Other

COOLANT: Wet Ice  Blue Ice  Dry Ice  Water  None

7. Did all bottles arrive in good condition (Unbroken)? Yes  No

8. Could all bottle labels be reconciled with the COC? Yes  No

9. Were sample(s) at the correct pH upon receipt? Yes  No  NA

10. Were correct bottle(s) used for the test(s) indicated? Yes  No

11. Were air bubbles >6 mm in any VOA vials? Yes  No  NA

12. Sufficient quantity received to perform indicated analyses? Yes  No

13. Was a trip blank present in the cooler(s)? Yes  No  Were VOAs on the COC? Yes  No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal  Voice Mail  Other

Concerning \_\_\_\_\_

**14. CHAIN OF CUSTODY**

The following discrepancies occurred:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**15. SAMPLE CONDITION**

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

**16. SAMPLE PRESERVATION**

Sample(s) \_\_\_\_\_ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100108-HNO<sub>3</sub>; Sulfuric Acid Lot# 100108-H<sub>2</sub>SO<sub>4</sub>; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-(CH<sub>3</sub>COO)<sub>2</sub>ZN/NaOH. What time was preservative added to sample(s)? \_\_\_\_\_

Client ID	pH	Date	Initials





**CONESTOGA-ROVERS & ASSOCIATES**

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # **№ D 6094**

SSOW Ref. Code: **E630020**

**Required Client Information:**

Company: CRA, Inc. Report To: P. Wiseman  
 Address: 14496 Sheldon Rd. Copy To: L. Clark  
 Suite 200 Invoice To:  
 Plymouth, MI 48170 P.O.:  
 Phone: 734-453-5123 Project Name: **Gm Ground Repts**  
 Fax: 734-453-5201 Project Number: **17300-10**  
 Email:

Laboratory: **TST America**  
 Laboratory Location: **North Canton OH**  
 Laboratory Contact: **D. Hecker**  
 Requested Due Date:  
 QA/QC Requirements: **TAT: STD**

**Sample Identification:**

Valid Matrix Codes:  
 WG Groundwater  
 WB Borehole Water  
 WS Surface Water  
 SO Soil  
 SE Sediment  
 See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative						Analysis and Method	Remarks/Lab ID			
					Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:					
1. <b>GW-17360-440809-DR-261</b>	<b>WG</b>	<b>4/8/09</b>	<b>835</b>	<b>9</b>											
2. <b>-262</b>			<b>855</b>	<b>3</b>											
3. <b>-263</b>			<b>915</b>	<b>3</b>											
4. <b>-264</b>			<b>950</b>	<b>3</b>											
5. <b>-265</b>			<b>945</b>	<b>3</b>											
6. <b>-266</b>			<b>1025</b>	<b>3</b>											
7. <b>-267</b>			<b>1030</b>	<b>3</b>											
8. <b>-268</b>			<b>1120</b>	<b>3</b>											
9. <b>-269</b>			<b>1125</b>	<b>5</b>											
10. <b>-270</b>			<b>1135</b>	<b>5</b>											
11. <b>-271</b>			<b>1355</b>	<b>5</b>											
12. <b>-272</b>			<b>1416</b>	<b>5</b>											
13. <b>-273</b>			<b>1520</b>	<b>5</b>											
14. <b>-274</b>			<b>1515</b>	<b>3</b>											
15. <b>-275</b>			<b>1530</b>	<b>1</b>											

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD: **2** NO. OF COOLERS: **2** RELINQUISHED BY / AFFILIATION: **D. Russ / CRA** DATE: **4/8/09** TIME: **17:00** RECEIVED BY / AFFILIATION: **Sherry Bunn/TA** DATE: **4/9/09** TIME: **9:20**

AIRBILL NO.

SHIPMENT METHOD

NO. OF COOLERS

RELINQUISHED BY / AFFILIATION

DATE

TIME

RECEIVED BY / AFFILIATION

DATE

TIME

Sample Condition

Temp in C

Received on Ice Y/N

Scaled Cooler Y/N

Samples Intact Y/N

Additional Comments:

Distribution:

WHITE - Fully Executed Copy

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampler Copy

Sampler Name: **D. Russ / J. York** Date: **4/8/09**

Sampler Signature: **D. Russ**

**TestAmerica Cooler Receipt Form/Narrative**  
**North Canton Facility**

Lot Number: A90090184

Client CRA Project SMO Grand Rapids By: Terry Burns  
 Cooler Received on 4/9/09 Opened on 4/9/09 (Signature)

FedEx  UPS  DHL  FAS  Stetson  Client Drop Off  TestAmerica Courier  Other \_\_\_\_\_  
 TestAmerica Cooler # \_\_\_\_\_ Multiple Coolers  Foam Box  Client Cooler  Other \_\_\_\_\_

1. Were custody seals on the outside of the cooler(s)? Yes  No  Intact? Yes  No  NA   
 If YES, Quantity \_\_\_\_\_ Quantity Unsalvageable \_\_\_\_\_  
 Were custody seals on the outside of cooler(s) signed and dated? Yes  No  NA   
 Were custody seals on the bottle(s)? Yes  No   
 If YES, are there any exceptions? \_\_\_\_\_
  2. Shippers' packing slip attached to the cooler(s)? Yes  No
  3. Did custody papers accompany the sample(s)? Yes  No
  4. Were the custody papers signed in the appropriate place? Relinquished by client? Yes  No
  5. Packing material used: Bubble Wrap  Foam  None  Other \_\_\_\_\_  
 Yes  No
  6. Cooler temperature upon receipt \_\_\_\_\_ °C See back of form for multiple coolers/temps   
 METHOD: IR  Other   
 COOLANT: Wet Ice  Blue Ice  Dry Ice  Water  None
  7. Did all bottles arrive in good condition (Unbroken)? Yes  No
  8. Could all bottle labels be reconciled with the COC? Yes  No
  9. Were sample(s) at the correct pH upon receipt? Yes  No  NA
  10. Were correct bottle(s) used for the test(s) indicated? Yes  No
  11. Were air bubbles >6 mm in any VOA vials? Yes  No  NA
  12. Sufficient quantity received to perform indicated analyses? Yes  No
  13. Was a trip blank present in the cooler(s)? Yes  No  Were VOAs on the COC? Yes  No
- Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal  Voice Mail  Other   
 Concerning \_\_\_\_\_

**14. CHAIN OF CUSTODY**

The following discrepancies occurred:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**15. SAMPLE CONDITION**

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

**16. SAMPLE PRESERVATION**

Sample(s) \_\_\_\_\_ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 100108-HNO<sub>3</sub>; Sulfuric Acid Lot# 100108-H<sub>2</sub>SO<sub>4</sub>; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-(CH<sub>3</sub>COO)<sub>2</sub>ZN/NaOH. What time was preservative added to sample(s)? \_\_\_\_\_

Client ID	pH	Date	Initials



# ***GCMS VOLATILE DATA***

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-230

GC/MS Volatiles

Lot-Sample #...: A9D080156-001    Work Order #...: K9QT01AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 13:30    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-230

GC/MS Volatiles

Lot-Sample #...: A9D080156-001    Work Order #...: K9QT01AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-231

GC/MS Volatiles

Lot-Sample #...: A9D080156-002    Work Order #...: K9QVN1AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 13:35    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-231

GC/MS Volatiles

Lot-Sample #...: A9D080156-002    Work Order #...: K9QVN1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-232

GC/MS Volatiles

Lot-Sample #...: A9D080156-003    Work Order #...: K9QVP1AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 14:10    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
<b>Bromodichloromethane</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>4.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-232

GC/MS Volatiles

Lot-Sample #...: A9D080156-003    Work Order #...: K9QVP1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-233

GC/MS Volatiles

Lot-Sample #...: A9D080156-004    Work Order #...: K9QVT1AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 14:55    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-233

GC/MS Volatiles

Lot-Sample #...: A9D080156-004    Work Order #...: K9QVT1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-235

GC/MS Volatiles

Lot-Sample #...: A9D080156-005    Work Order #...: K9QVV1AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 12:40    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-235

GC/MS Volatiles

Lot-Sample #...: A9D080156-005    Work Order #...: K9QVV1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>8.2</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-236

GC/MS Volatiles

Lot-Sample #...: A9D080156-006    Work Order #...: K9QV11AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 12:50    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>2.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-236

GC/MS Volatiles

Lot-Sample #...: A9D080156-006    Work Order #...: K9QV11AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>2.7</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.96 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>0.29 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-237

GC/MS Volatiles

Lot-Sample #...: A9D080156-007    Work Order #...: K9QV31AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 13:00    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>3.4</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: WS-17360-040609-DR-237

GC/MS Volatiles

Lot-Sample #...: A9D080156-007    Work Order #...: K9QV31AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>6.1</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
<b>1,1,1-Trichloroethane</b>	<b>0.26 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>0.57 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-238

GC/MS Volatiles

Lot-Sample #...: A9D080156-008    Work Order #...: K9QV41AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 16:15    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>0.81 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
<b>1,1-Dichloroethene</b>	<b>0.55 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
<b>cis-1,2-Dichloroethene</b>	<b>0.24 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-238

GC/MS Volatiles

Lot-Sample #...: A9D080156-008    Work Order #...: K9QV41AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
<b>1,1,1-Trichloroethane</b>	<b>5.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.99 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-239

GC/MS Volatiles

Lot-Sample #...: A9D080156-009    Work Order #...: K9QV61AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 15:45    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.43 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>0.25 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
<b>1,1-Dichloroethene</b>	<b>0.25 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-239

GC/MS Volatiles

Lot-Sample #...: A9D080156-009    Work Order #...: K9QV61AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
<b>1,1,1-Trichloroethane</b>	<b>3.6</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.5</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-240

GC/MS Volatiles

Lot-Sample #...: A9D080156-010    Work Order #...: K9QV71AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 15:40    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>0.39 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-240

GC/MS Volatiles

Lot-Sample #...: A9D080156-010    Work Order #...: K9QV71AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-241

GC/MS Volatiles

Lot-Sample #...: A9D080156-011    Work Order #...: K9QV81AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 08:20    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-241

GC/MS Volatiles

Lot-Sample #...: A9D080156-011 Work Order #...: K9QV81AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.94 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-242

GC/MS Volatiles

Lot-Sample #...: A9D080156-012    Work Order #...: K9QWF1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 08:50    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.18 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-242

GC/MS Volatiles

Lot-Sample #...: A9D080156-012    Work Order #...: K9QWF1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-243

GC/MS Volatiles

Lot-Sample #...: A9D080156-013    Work Order #...: K9QWH1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 09:35    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1.67    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	42	ug/L	1.8
Benzene	ND	1.7	ug/L	0.22
Bromodichloromethane	ND	1.7	ug/L	0.25
Bromoform	ND	1.7	ug/L	1.1
Bromomethane	ND	1.7	ug/L	0.68
2-Butanone	ND	42	ug/L	0.95
Carbon disulfide	ND	8.4	ug/L	0.22
Carbon tetrachloride	ND	1.7	ug/L	0.22
Chlorobenzene	ND	1.7	ug/L	0.25
Chloroethane	ND	1.7	ug/L	0.48
Chloroform	ND	1.7	ug/L	0.27
Chloromethane	ND	1.7	ug/L	0.50
Cyclohexane	ND	1.7	ug/L	0.20
Dibromochloromethane	ND	1.7	ug/L	0.30
1,2-Dibromo-3-chloro- propane	ND	1.7	ug/L	1.1
1,2-Dibromoethane	ND	1.7	ug/L	0.40
1,2-Dichlorobenzene	ND	1.7	ug/L	0.22
1,3-Dichlorobenzene	ND	1.7	ug/L	0.23
1,4-Dichlorobenzene	ND	1.7	ug/L	0.22
Dichlorodifluoromethane	ND	1.7	ug/L	0.52
<b>1,1-Dichloroethane</b>	<b>0.82 J</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.25</b>
1,2-Dichloroethane	ND	1.7	ug/L	0.37
1,1-Dichloroethene	ND	1.7	ug/L	0.32
<b>cis-1,2-Dichloroethene</b>	<b>15</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.28</b>
trans-1,2-Dichloroethene	ND	1.7	ug/L	0.32
1,2-Dichloropropane	ND	1.7	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.7	ug/L	0.23
trans-1,3-Dichloropropene	ND	1.7	ug/L	0.32
Ethylbenzene	ND	1.7	ug/L	0.28
2-Hexanone	ND	84	ug/L	0.68
Isopropylbenzene	ND	8.4	ug/L	0.22
Methyl acetate	ND	17	ug/L	0.63
Methylene chloride	ND	8.4	ug/L	0.55
Methylcyclohexane	ND	1.7	ug/L	0.22
4-Methyl-2-pentanone	ND	84	ug/L	0.53
Methyl tert-butyl ether	ND	8.4	ug/L	0.28
Styrene	ND	1.7	ug/L	0.18

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-243

GC/MS Volatiles

Lot-Sample #...: A9D080156-013 Work Order #...: K9QWH1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.7	ug/L	0.30
Tetrachloroethene	ND	1.7	ug/L	0.48
Toluene	ND	1.7	ug/L	0.22
1,2,4-Trichloro- benzene	ND	8.4	ug/L	0.25
<b>1,1,1-Trichloroethane</b>	<b>1.6 J</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.37</b>
1,1,2-Trichloroethane	ND	1.7	ug/L	0.45
<b>Trichloroethene</b>	<b>43</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.28</b>
Trichlorofluoromethane	ND	1.7	ug/L	0.35
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.7	ug/L	0.47
<b>Vinyl chloride</b>	<b>2.3</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.37</b>
Xylenes (total)	ND	3.3	ug/L	0.47

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-244

GC/MS Volatiles

Lot-Sample #...: A9D080156-014    Work Order #...: K9QWK1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 08:35    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.17 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
<b>1,3-Dichlorobenzene</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.14</b>
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-244

GC/MS Volatiles

Lot-Sample #...: A9D080156-014    Work Order #...: K9QWK1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.55 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-245

GC/MS Volatiles

Lot-Sample #...: A9D080156-015    Work Order #...: K9QWM1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 09:00    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.81 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>0.87 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-245

GC/MS Volatiles

Lot-Sample #...: A9D080156-015    Work Order #...: K9QWM1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.60 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.7</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-246

GC/MS Volatiles

Lot-Sample #...: A9D080156-016    Work Order #...: K9QWQ1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 09:40    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
<b>1,1-Dichloroethene</b>	<b>0.29 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
<b>cis-1,2-Dichloroethene</b>	<b>1.6</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>0.40 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-246

GC/MS Volatiles

Lot-Sample #...: A9D080156-016    Work Order #...: K9QWQ1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.31 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>11</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-247

GC/MS Volatiles

Lot-Sample #...: A9D080156-017    Work Order #...: K9QWW1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 10:25    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.29 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>4.4 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-247

GC/MS Volatiles

Lot-Sample #...: A9D080156-017    Work Order #...: K9QWW1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.48 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.63 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-248

GC/MS Volatiles

Lot-Sample #...: A9D080156-018    Work Order #...: K9QW11AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 10:30    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.29 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>4.4 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-248

GC/MS Volatiles

Lot-Sample #...: A9D080156-018    Work Order #...: K9QW11AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.46 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.62 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-249

GC/MS Volatiles

Lot-Sample #...: A9D080156-019    Work Order #...: K9QW21AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 10:35    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.24 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>26</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-249

GC/MS Volatiles

Lot-Sample #...: A9D080156-019    Work Order #...: K9QW21AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.62 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.96 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-250

GC/MS Volatiles

Lot-Sample #...: A9D080156-020    Work Order #...: K9QW41AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 11:15    Date Received..: 04/08/09  
 Prep Date.....: 04/14/09    Analysis Date..: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
<b>Bromodichloromethane</b>	<b>0.15 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>1.4</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-250

GC/MS Volatiles

Lot-Sample #...: A9D080156-020    Work Order #...: K9QW41AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
<b>1,1,1-Trichloroethane</b>	<b>0.64 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-251

GC/MS Volatiles

Lot-Sample #...: A9D080156-021    Work Order #...: K9QW71AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 12:00    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-251

GC/MS Volatiles

Lot-Sample #...: A9D080156-021    Work Order #...: K9QW71AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.58 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-252

GC/MS Volatiles

Lot-Sample #...: A9D080156-022    Work Order #...: K9QW81AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 12:05    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.16 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-252

GC/MS Volatiles

Lot-Sample #...: A9D080156-022 Work Order #...: K9QW81AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.54 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>2.4</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-253

GC/MS Volatiles

Lot-Sample #...: A9D080156-023    Work Order #...: K9QW91AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 14:15    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>1.2</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-253

GC/MS Volatiles

Lot-Sample #...: A9D080156-023    Work Order #...: K9QW91AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.80 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-254

GC/MS Volatiles

Lot-Sample #...: A9D080156-024    Work Order #...: K9QXD1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 14:05    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
<b>Bromodichloromethane</b>	<b>0.22 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>1.3</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-254

GC/MS Volatiles

Lot-Sample #...: A9D080156-024    Work Order #...: K9QXD1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
<b>1,1,1-Trichloroethane</b>	<b>0.42 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.92 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-255

GC/MS Volatiles

Lot-Sample #...: A9D080156-025    Work Order #...: K9QXF1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 14:35    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>0.39 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>0.69 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-255

GC/MS Volatiles

Lot-Sample #...: A9D080156-025    Work Order #...: K9QXF1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>4.5</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>0.25 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-256

GC/MS Volatiles

Lot-Sample #...: A9D080156-026    Work Order #...: K9QXH1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 15:10    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>1.3 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-256

GC/MS Volatiles

Lot-Sample #...: A9D080156-026    Work Order #...: K9QXH1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-257

GC/MS Volatiles

Lot-Sample #...: A9D080156-027    Work Order #...: K9QXK1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 15:25    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>1.6</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-257

GC/MS Volatiles

Lot-Sample #...: A9D080156-027    Work Order #...: K9QXK1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>1.1</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-258

GC/MS Volatiles

Lot-Sample #...: A9D080156-028    Work Order #...: K9QXM1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 16:00    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
<b>Bromodichloromethane</b>	<b>0.42 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>1.5</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-258

GC/MS Volatiles

Lot-Sample #...: A9D080156-028    Work Order #...: K9QXM1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>1.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-259

GC/MS Volatiles

Lot-Sample #...: A9D080156-029    Work Order #...: K9QXP1AA    Matrix.....: WG  
 Date Sampled...: 04/07/09 15:45    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 11.11    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	280	ug/L	12
Benzene	ND	11	ug/L	1.4
Bromodichloromethane	ND	11	ug/L	1.7
Bromoform	ND	11	ug/L	7.1
Bromomethane	ND	11	ug/L	4.6
2-Butanone	ND	280	ug/L	6.3
Carbon disulfide	ND	56	ug/L	1.4
Carbon tetrachloride	ND	11	ug/L	1.4
Chlorobenzene	ND	11	ug/L	1.7
Chloroethane	ND	11	ug/L	3.2
Chloroform	ND	11	ug/L	1.8
Chloromethane	ND	11	ug/L	3.3
Cyclohexane	ND	11	ug/L	1.3
Dibromochloromethane	ND	11	ug/L	2.0
1,2-Dibromo-3-chloro- propane	ND	11	ug/L	7.4
1,2-Dibromoethane	ND	11	ug/L	2.7
1,2-Dichlorobenzene	ND	11	ug/L	1.4
1,3-Dichlorobenzene	ND	11	ug/L	1.6
1,4-Dichlorobenzene	ND	11	ug/L	1.4
Dichlorodifluoromethane	ND	11	ug/L	3.4
1,1-Dichloroethane	ND	11	ug/L	1.7
1,2-Dichloroethane	ND	11	ug/L	2.4
1,1-Dichloroethene	ND	11	ug/L	2.1
<b>cis-1,2-Dichloroethene</b>	<b>3.0 J</b>	<b>11</b>	<b>ug/L</b>	<b>1.9</b>
trans-1,2-Dichloroethene	ND	11	ug/L	2.1
1,2-Dichloropropane	ND	11	ug/L	2.0
cis-1,3-Dichloropropene	ND	11	ug/L	1.6
trans-1,3-Dichloropropene	ND	11	ug/L	2.1
Ethylbenzene	ND	11	ug/L	1.9
2-Hexanone	ND	560	ug/L	4.6
Isopropylbenzene	ND	56	ug/L	1.4
Methyl acetate	ND	110	ug/L	4.2
Methylene chloride	ND	56	ug/L	3.7
Methylcyclohexane	ND	11	ug/L	1.4
4-Methyl-2-pentanone	ND	560	ug/L	3.6
Methyl tert-butyl ether	ND	56	ug/L	1.9
Styrene	ND	11	ug/L	1.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040709-DR-259

GC/MS Volatiles

Lot-Sample #...: A9D080156-029    Work Order #...: K9QXP1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	11	ug/L	2.0
<b>Tetrachloroethene</b>	<b>380</b>	<b>11</b>	<b>ug/L</b>	<b>3.2</b>
Toluene	ND	11	ug/L	1.4
1,2,4-Trichloro- benzene	ND	56	ug/L	1.7
1,1,1-Trichloroethane	ND	11	ug/L	2.4
1,1,2-Trichloroethane	ND	11	ug/L	3.0
<b>Trichloroethene</b>	<b>7.3 J</b>	<b>11</b>	<b>ug/L</b>	<b>1.9</b>
Trichlorofluoromethane	ND	11	ug/L	2.3
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	11	ug/L	3.1
Vinyl chloride	ND	11	ug/L	2.4
Xylenes (total)	ND	22	ug/L	3.1

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-234

GC/MS Volatiles

Lot-Sample #...: A9D080156-030    Work Order #...: K9QXT1AA    Matrix.....: WG  
 Date Sampled...: 04/06/09 15:40    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>31</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>0.97 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040609-DR-234

GC/MS Volatiles

Lot-Sample #...: A9D080156-030 Work Order #...: K9QXT1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>24</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>6.6</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-040709-DR-260

GC/MS Volatiles

Lot-Sample #...: A9D080156-031    Work Order #...: K9Q0A1AA    Matrix.....: WQ  
 Date Sampled...: 04/07/09 16:15    Date Received..: 04/08/09  
 Prep Date.....: 04/15/09    Analysis Date..: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-040709-DR-260

GC/MS Volatiles

Lot-Sample #...: A9D080156-031    Work Order #...: K9Q0A1AA    Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-261

GC/MS Volatiles

Lot-Sample #...: A9D090186-001    Work Order #...: K9VE31AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 08:35    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.51 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-261

GC/MS Volatiles

Lot-Sample #...: A9D090186-001 Work Order #...: K9VE31AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>1.6</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-262

GC/MS Volatiles

Lot-Sample #...: A9D090186-002    Work Order #...: K9VGR1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 08:55    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.27 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
<b>Methylcyclohexane</b>	<b>0.51 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.13</b>
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-262

GC/MS Volatiles

Lot-Sample #...: A9D090186-002    Work Order #...: K9VGR1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>5.8</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-263

GC/MS Volatiles

Lot-Sample #...: A9D090186-003    Work Order #...: K9VGX1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 09:15    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>4.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
<b>trans-1,2-Dichloroethene</b>	<b>4.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-263

GC/MS Volatiles

Lot-Sample #...: A9D090186-003    Work Order #...: K9VGX1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.44 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>25</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-264

GC/MS Volatiles

Lot-Sample #...: A9D090186-004    Work Order #...: K9VG01AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 09:50    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.37 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-264

GC/MS Volatiles

Lot-Sample #...: A9D090186-004    Work Order #...: K9VG01AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>6.4</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-265

GC/MS Volatiles

Lot-Sample #...: A9D090186-005    Work Order #...: K9VG11AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 09:45    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>17</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>3.8</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>0.37 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-265

GC/MS Volatiles

Lot-Sample #...: A9D090186-005    Work Order #...: K9VG11AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>14</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>12</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-266

GC/MS Volatiles

Lot-Sample #...: A9D090186-006 Work Order #...: K9VG81AA Matrix.....: WG  
 Date Sampled...: 04/08/09 10:25 Date Received..: 04/09/09  
 Prep Date.....: 04/16/09 Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>1.2</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
<b>1,1-Dichloroethene</b>	<b>0.50 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
<b>cis-1,2-Dichloroethene</b>	<b>15</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>2.4</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-266

GC/MS Volatiles

Lot-Sample #...: A9D090186-006    Work Order #...: K9VG81AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>12</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>16</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-267

GC/MS Volatiles

Lot-Sample #...: A9D090186-007    Work Order #...: K9VHC1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 10:30    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
<b>1,1-Dichloroethane</b>	<b>1.2</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.15</b>
1,2-Dichloroethane	ND	1.0	ug/L	0.22
<b>1,1-Dichloroethene</b>	<b>0.55 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
<b>cis-1,2-Dichloroethene</b>	<b>15</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
<b>trans-1,2-Dichloroethene</b>	<b>2.5</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.19</b>
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-267

GC/MS Volatiles

Lot-Sample #...: A9D090186-007    Work Order #...: K9VHC1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>12</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
<b>Vinyl chloride</b>	<b>17</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.22</b>
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-268

GC/MS Volatiles

Lot-Sample #...: A9D090186-008    Work Order #...: K9VHF1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 11:20    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.39 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-268

GC/MS Volatiles

Lot-Sample #...: A9D090186-008    Work Order #...: K9VHF1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-269

GC/MS Volatiles

Lot-Sample #...: A9D090186-009    Work Order #...: K9VHG1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 11:25    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-269

GC/MS Volatiles

Lot-Sample #...: A9D090186-009    Work Order #...: K9VHG1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-270

GC/MS Volatiles

Lot-Sample #...: A9D090186-010    Work Order #...: K9VHM1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 11:35    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-270

GC/MS Volatiles

Lot-Sample #...: A9D090186-010    Work Order #...: K9VHM1AA    Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-271

GC/MS Volatiles

Lot-Sample #...: A9D090186-011    Work Order #...: K9VHT1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 13:55    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
<b>Acetone</b>	<b>9.1 J</b>	<b>25</b>	<b>ug/L</b>	<b>1.1</b>
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
<b>2-Butanone</b>	<b>0.97 J</b>	<b>25</b>	<b>ug/L</b>	<b>0.57</b>
<b>Carbon disulfide</b>	<b>0.87 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.13</b>
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>0.36 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>4.8 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-271

GC/MS Volatiles

Lot-Sample #...: A9D090186-011 Work Order #...: K9VHT1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>0.99 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.28 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-272

GC/MS Volatiles

Lot-Sample #...: A9D090186-012    Work Order #...: K9VHX1AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 14:10    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
<b>Acetone</b>	<b>14 J</b>	<b>25</b>	<b>ug/L</b>	<b>1.1</b>
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
<b>2-Butanone</b>	<b>2.2 J</b>	<b>25</b>	<b>ug/L</b>	<b>0.57</b>
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
<b>Isopropylbenzene</b>	<b>0.31 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.13</b>
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
<b>4-Methyl-2-pentanone</b>	<b>0.64 J</b>	<b>50</b>	<b>ug/L</b>	<b>0.32</b>
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-272

GC/MS Volatiles

Lot-Sample #...: A9D090186-012    Work Order #...: K9VHX1AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.63 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-273

GC/MS Volatiles

Lot-Sample #...: A9D090186-013    Work Order #...: K9VH01AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 15:20    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
<b>Methyl tert-butyl ether</b>	<b>2.0 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.17</b>
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-273

GC/MS Volatiles

Lot-Sample #...: A9D090186-013    Work Order #...: K9VH01AA    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>1.0</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-274

GC/MS Volatiles

Lot-Sample #...: A9D090186-014    Work Order #...: K9VH21AA    Matrix.....: WG  
 Date Sampled...: 04/08/09 15:15    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
<b>Chloroform</b>	<b>0.38 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.16</b>
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-274

GC/MS Volatiles

Lot-Sample #...: A9D090186-014 Work Order #...: K9VH21AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
<b>Tetrachloroethene</b>	<b>9.1</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.29</b>
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
<b>Trichloroethene</b>	<b>0.29 J</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.17</b>
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

**NOTE(S):**

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-040809-DR-275

GC/MS Volatiles

Lot-Sample #...: A9D090186-015    Work Order #...: K9VH41AA    Matrix.....: WQ  
 Date Sampled...: 04/08/09 15:30    Date Received..: 04/09/09  
 Prep Date.....: 04/16/09    Analysis Date..: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1    Initial Wgt/Vol: 5 mL    Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-040809-DR-275

GC/MS Volatiles

Lot-Sample #...: A9D090186-015    Work Order #...: K9VH41AA    Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156  
 MB Lot-Sample #: A9D140000-299  
 Analysis Date...: 04/14/09  
 Dilution Factor: 1

Work Order #...: K93PH1AA  
 Prep Date.....: 04/14/09  
 Prep Batch #...: 9104299  
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER  
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156

Work Order #...: K93PH1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156  
 MB Lot-Sample #: A9D160000-137

Work Order #...: K96H61AA

Matrix.....: WATER

Analysis Date...: 04/15/09  
 Dilution Factor: 1

Prep Date.....: 04/15/09

Final Wgt/Vol...: 5 mL

Prep Batch #...: 9106137

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156

Work Order #...: K96H61AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156  
 MB Lot-Sample #: A9D160000-191  
 Analysis Date...: 04/16/09  
 Dilution Factor: 1

Work Order #...: K96TW1AA  
 Prep Date.....: 04/16/09  
 Prep Batch #...: 9106191  
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER  
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9D08156

Work Order #...: K96TW1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K93PH1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D140000-299      K93PH1AD-LCSD  
 Prep Date.....: 04/13/09      Analysis Date...: 04/13/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	9.8	ug/L	98		SW846 8260B
	10	10	ug/L	101	3.1	SW846 8260B
<b>Benzene</b>	<b>10</b>	<b>9.7</b>	<b>ug/L</b>	<b>97</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.3</b>	<b>ug/L</b>	<b>93</b>	<b>4.6</b>	<b>SW846 8260B</b>
Bromodichloromethane	10	10	ug/L	100		SW846 8260B
	10	9.8	ug/L	98	2.1	SW846 8260B
Bromoform	10	8.1	ug/L	81		SW846 8260B
	10	8.0	ug/L	80	1.4	SW846 8260B
Bromomethane	10	14 a	ug/L	139		SW846 8260B
	10	13	ug/L	128	8.0	SW846 8260B
2-Butanone	10	10	ug/L	101		SW846 8260B
	10	9.5	ug/L	95	6.2	SW846 8260B
Carbon disulfide	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	0.84	SW846 8260B
Carbon tetrachloride	10	11	ug/L	111		SW846 8260B
	10	11	ug/L	110	0.73	SW846 8260B
<b>Chlorobenzene</b>	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.5</b>	<b>ug/L</b>	<b>95</b>	<b>0.75</b>	<b>SW846 8260B</b>
Chloroethane	10	12	ug/L	116		SW846 8260B
	10	12	ug/L	115	1.1	SW846 8260B
Chloroform	10	10	ug/L	100		SW846 8260B
	10	9.7	ug/L	97	3.0	SW846 8260B
Chloromethane	10	11	ug/L	108		SW846 8260B
	10	10	ug/L	104	3.4	SW846 8260B
Cyclohexane	10	7.9	ug/L	79		SW846 8260B
	10	7.4	ug/L	74	6.4	SW846 8260B
Dibromochloromethane	10	9.8	ug/L	98		SW846 8260B
	10	9.3	ug/L	93	5.8	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	10	ug/L	103		SW846 8260B
	10	9.3	ug/L	93	9.6	SW846 8260B
1,2-Dibromoethane	10	10	ug/L	100		SW846 8260B
	10	9.7	ug/L	97	2.6	SW846 8260B
1,2-Dichlorobenzene	10	9.8	ug/L	98		SW846 8260B
	10	9.3	ug/L	93	4.6	SW846 8260B
1,3-Dichlorobenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.2	ug/L	92	4.1	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K93PH1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D140000-299      K93PH1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
1,4-Dichlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.3	ug/L	93	2.7	SW846 8260B
Dichlorodifluoromethane	10	6.8 a	ug/L	68		SW846 8260B
	10	6.1 a	ug/L	61	12	SW846 8260B
1,1-Dichloroethane	10	10	ug/L	102		SW846 8260B
	10	9.9	ug/L	99	2.2	SW846 8260B
1,2-Dichloroethane	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	2.2	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>104</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>	<b>3.6</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	102	1.1	SW846 8260B
trans-1,2-Dichloroethene	10	9.8	ug/L	98		SW846 8260B
	10	9.8	ug/L	98	0.55	SW846 8260B
1,2-Dichloropropane	10	9.9	ug/L	99		SW846 8260B
	10	9.7	ug/L	97	1.5	SW846 8260B
cis-1,3-Dichloropropene	10	8.0 a	ug/L	80		SW846 8260B
	10	8.1 a	ug/L	81	0.27	SW846 8260B
trans-1,3-Dichloropropene	10	8.0 a	ug/L	80		SW846 8260B
	10	8.5	ug/L	85	5.7	SW846 8260B
Ethylbenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.5	ug/L	95	1.8	SW846 8260B
2-Hexanone	10	9.4	ug/L	94		SW846 8260B
	10	9.5	ug/L	95	1.2	SW846 8260B
Isopropylbenzene	10	9.9	ug/L	99		SW846 8260B
	10	9.6	ug/L	96	3.4	SW846 8260B
Methyl acetate	10	9.4	ug/L	94		SW846 8260B
	10	8.5	ug/L	85	9.8	SW846 8260B
Methylene chloride	10	9.4	ug/L	94		SW846 8260B
	10	9.2	ug/L	92	1.6	SW846 8260B
Methylcyclohexane	10	8.0	ug/L	80		SW846 8260B
	10	7.5	ug/L	75	6.3	SW846 8260B
4-Methyl-2-pentanone	10	9.6	ug/L	96		SW846 8260B
	10	9.3	ug/L	93	4.1	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	2.2	SW846 8260B
Styrene	10	10	ug/L	101		SW846 8260B
	10	9.7	ug/L	97	3.6	SW846 8260B
1,1,2,2-Tetrachloroethane	10	10	ug/L	100		SW846 8260B
	10	9.7	ug/L	97	3.0	SW846 8260B

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**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

**Client Lot #...**: 9D08156      **Work Order #...**: K93PH1AC-LCS      **Matrix.....**: WATER  
**LCS Lot-Sample#**: A9D140000-299      K93PH1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Tetrachloroethene	10	9.6	ug/L	96		SW846 8260B
	10	9.3	ug/L	93	3.1	SW846 8260B
<b>Toluene</b>	<b>10</b>	<b>9.7</b>	<b>ug/L</b>	<b>97</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.5</b>	<b>ug/L</b>	<b>95</b>	<b>2.3</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	1.4	SW846 8260B
1,1,1-Trichloroethane	10	9.9	ug/L	99		SW846 8260B
	10	9.5	ug/L	95	5.1	SW846 8260B
1,1,2-Trichloroethane	10	10	ug/L	103		SW846 8260B
	10	9.6	ug/L	96	6.2	SW846 8260B
<b>Trichloroethene</b>	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.3</b>	<b>ug/L</b>	<b>93</b>	<b>2.5</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	10	12	ug/L	125		SW846 8260B
	10	12	ug/L	124	0.69	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	15 a	ug/L	146		SW846 8260B
	10	14 a	ug/L	138	5.8	SW846 8260B
Vinyl chloride	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	1.3	SW846 8260B
Xylenes (total)	30	30	ug/L	100		SW846 8260B
	30	29	ug/L	98	2.1	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	89	(61 - 128)
Toluene-d8	97	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	102	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K93PH1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D140000-299      K93PH1AD-LCSD  
 Prep Date.....: 04/13/09      Analysis Date...: 04/13/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
Acetone	98	(22 - 200)			SW846 8260B
	101	(22 - 200)	3.1	(0-95)	SW846 8260B
<b>Benzene</b>	<b>97</b>	<b>(80 - 116)</b>			<b>SW846 8260B</b>
	<b>93</b>	<b>(80 - 116)</b>	<b>4.6</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Bromodichloromethane	100	(87 - 130)			SW846 8260B
	98	(87 - 130)	2.1	(0-30)	SW846 8260B
Bromoform	81	(76 - 150)			SW846 8260B
	80	(76 - 150)	1.4	(0-30)	SW846 8260B
Bromomethane	139 a	(64 - 129)			SW846 8260B
	128	(64 - 129)	8.0	(0-30)	SW846 8260B
2-Butanone	101	(28 - 237)			SW846 8260B
	95	(28 - 237)	6.2	(0-65)	SW846 8260B
Carbon disulfide	102	(73 - 139)			SW846 8260B
	101	(73 - 139)	0.84	(0-30)	SW846 8260B
Carbon tetrachloride	111	(75 - 149)			SW846 8260B
	110	(75 - 149)	0.73	(0-30)	SW846 8260B
<b>Chlorobenzene</b>	<b>96</b>	<b>(76 - 117)</b>			<b>SW846 8260B</b>
	<b>95</b>	<b>(76 - 117)</b>	<b>0.75</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Chloroethane	116	(66 - 126)			SW846 8260B
	115	(66 - 126)	1.1	(0-30)	SW846 8260B
Chloroform	100	(84 - 128)			SW846 8260B
	97	(84 - 128)	3.0	(0-30)	SW846 8260B
Chloromethane	108	(48 - 123)			SW846 8260B
	104	(48 - 123)	3.4	(0-30)	SW846 8260B
Cyclohexane	79	(70 - 130)			SW846 8260B
	74	(70 - 130)	6.4	(0-30)	SW846 8260B
Dibromochloromethane	98	(81 - 138)			SW846 8260B
	93	(81 - 138)	5.8	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	103	(70 - 130)			SW846 8260B
	93	(70 - 130)	9.6	(0-30)	SW846 8260B
1,2-Dibromoethane	100	(70 - 130)			SW846 8260B
	97	(70 - 130)	2.6	(0-30)	SW846 8260B
1,2-Dichlorobenzene	98	(70 - 130)			SW846 8260B
	93	(70 - 130)	4.6	(0-30)	SW846 8260B
1,3-Dichlorobenzene	96	(70 - 130)			SW846 8260B
	92	(70 - 130)	4.1	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K93PH1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D140000-299      K93PH1AD-LCSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
1,4-Dichlorobenzene	95	(70 - 130)			SW846 8260B
	93	(70 - 130)	2.7	(0-30)	SW846 8260B
Dichlorodifluoromethane	68 a	(70 - 130)			SW846 8260B
	61 a	(70 - 130)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	102	(86 - 123)			SW846 8260B
	99	(86 - 123)	2.2	(0-30)	SW846 8260B
1,2-Dichloroethane	96	(79 - 136)			SW846 8260B
	94	(79 - 136)	2.2	(0-30)	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>104</b>	<b>(63 - 130)</b>			<b>SW846 8260B</b>
	<b>100</b>	<b>(63 - 130)</b>	<b>3.6</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	103	(85 - 113)			SW846 8260B
	102	(85 - 113)	1.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	98	(80 - 120)			SW846 8260B
	98	(80 - 120)	0.55	(0-30)	SW846 8260B
1,2-Dichloropropane	99	(82 - 115)			SW846 8260B
	97	(82 - 115)	1.5	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	80 a	(84 - 130)			SW846 8260B
	81 a	(84 - 130)	0.27	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	80 a	(84 - 130)			SW846 8260B
	85	(84 - 130)	5.7	(0-30)	SW846 8260B
Ethylbenzene	97	(86 - 116)			SW846 8260B
	95	(86 - 116)	1.8	(0-30)	SW846 8260B
2-Hexanone	94	(35 - 200)			SW846 8260B
	95	(35 - 200)	1.2	(0-52)	SW846 8260B
Isopropylbenzene	99	(70 - 130)			SW846 8260B
	96	(70 - 130)	3.4	(0-30)	SW846 8260B
Methyl acetate	94	(70 - 130)			SW846 8260B
	85	(70 - 130)	9.8	(0-30)	SW846 8260B
Methylene chloride	94	(78 - 118)			SW846 8260B
	92	(78 - 118)	1.6	(0-30)	SW846 8260B
Methylcyclohexane	80	(70 - 130)			SW846 8260B
	75	(70 - 130)	6.3	(0-30)	SW846 8260B
4-Methyl-2-pentanone	96	(78 - 141)			SW846 8260B
	93	(78 - 141)	4.1	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(70 - 130)			SW846 8260B
	94	(70 - 130)	2.2	(0-30)	SW846 8260B
Styrene	101	(85 - 117)			SW846 8260B
	97	(85 - 117)	3.6	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	100	(85 - 118)			SW846 8260B
	97	(85 - 118)	3.0	(0-30)	SW846 8260B

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**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

**Client Lot #...**: 9D08156      **Work Order #...**: K93PH1AC-LCS      **Matrix.....**: WATER  
**LCS Lot-Sample#**: A9D140000-299      K93PH1AD-LCSD

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Tetrachloroethene	96	(88 - 113)			SW846 8260B
	93	(88 - 113)	3.1	(0-30)	SW846 8260B
<b>Toluene</b>	<b>97</b>	<b>(74 - 119)</b>			<b>SW846 8260B</b>
	<b>95</b>	<b>(74 - 119)</b>	<b>2.3</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	95	(70 - 130)			SW846 8260B
	94	(70 - 130)	1.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	99	(78 - 140)			SW846 8260B
	95	(78 - 140)	5.1	(0-30)	SW846 8260B
1,1,2-Trichloroethane	103	(83 - 122)			SW846 8260B
	96	(83 - 122)	6.2	(0-30)	SW846 8260B
<b>Trichloroethene</b>	<b>96</b>	<b>(75 - 122)</b>			<b>SW846 8260B</b>
	<b>93</b>	<b>(75 - 122)</b>	<b>2.5</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	125	(70 - 130)			SW846 8260B
	124	(70 - 130)	0.69	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	146 a	(70 - 130)			SW846 8260B
	138 a	(70 - 130)	5.8	(0-30)	SW846 8260B
Vinyl chloride	90	(61 - 120)			SW846 8260B
	89	(61 - 120)	1.3	(0-30)	SW846 8260B
Xylenes (total)	100	(87 - 116)			SW846 8260B
	98	(87 - 116)	2.1	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	89	(61 - 128)
Toluene-d8	97	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)
	102	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96H61AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-137      K96H61AD-LCSD  
 Prep Date.....: 04/15/09      Analysis Date...: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	7.7	ug/L	77		SW846 8260B
	10	8.3	ug/L	83	7.4	SW846 8260B
<b>Benzene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>	<b>4.7</b>	<b>SW846 8260B</b>
Bromodichloromethane	10	10	ug/L	101		SW846 8260B
	10	9.8	ug/L	98	3.2	SW846 8260B
Bromoform	10	8.1	ug/L	81		SW846 8260B
	10	8.5	ug/L	85	4.1	SW846 8260B
Bromomethane	10	15 a	ug/L	148		SW846 8260B
	10	16 a	ug/L	162	9.2	SW846 8260B
2-Butanone	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	0.17	SW846 8260B
Carbon disulfide	10	11	ug/L	109		SW846 8260B
	10	10	ug/L	105	3.4	SW846 8260B
Carbon tetrachloride	10	11	ug/L	113		SW846 8260B
	10	11	ug/L	109	3.6	SW846 8260B
<b>Chlorobenzene</b>	<b>10</b>	<b>9.4</b>	<b>ug/L</b>	<b>94</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.5</b>	<b>ug/L</b>	<b>95</b>	<b>1.7</b>	<b>SW846 8260B</b>
Chloroethane	10	12	ug/L	119		SW846 8260B
	10	12	ug/L	122	1.9	SW846 8260B
Chloroform	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	0.95	SW846 8260B
Chloromethane	10	13 a	ug/L	130		SW846 8260B
	10	13 a	ug/L	129	0.45	SW846 8260B
Cyclohexane	10	8.1	ug/L	81		SW846 8260B
	10	7.8	ug/L	78	3.5	SW846 8260B
Dibromochloromethane	10	9.9	ug/L	99		SW846 8260B
	10	9.6	ug/L	96	3.0	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.1	ug/L	91		SW846 8260B
	10	9.2	ug/L	92	0.78	SW846 8260B
1,2-Dibromoethane	10	9.9	ug/L	99		SW846 8260B
	10	10	ug/L	100	0.49	SW846 8260B
1,2-Dichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.5	ug/L	95	2.1	SW846 8260B
1,3-Dichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.6	ug/L	96	0.68	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96H61AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-137      K96H61AD-LCSD

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
1,4-Dichlorobenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.6	ug/L	96	1.4	SW846 8260B
Dichlorodifluoromethane	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	106	2.5	SW846 8260B
1,1-Dichloroethane	10	9.9	ug/L	99		SW846 8260B
	10	9.7	ug/L	97	1.8	SW846 8260B
1,2-Dichloroethane	10	9.7	ug/L	97		SW846 8260B
	10	9.4	ug/L	94	3.0	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>106</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>102</b>	<b>3.7</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	100	0.030	SW846 8260B
trans-1,2-Dichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.5	ug/L	95	2.2	SW846 8260B
1,2-Dichloropropane	10	10	ug/L	101		SW846 8260B
	10	9.8	ug/L	98	2.7	SW846 8260B
cis-1,3-Dichloropropene	10	9.8	ug/L	98		SW846 8260B
	10	9.1	ug/L	91	7.3	SW846 8260B
trans-1,3-Dichloropropene	10	9.8	ug/L	98		SW846 8260B
	10	9.6	ug/L	96	1.6	SW846 8260B
Ethylbenzene	10	10	ug/L	100		SW846 8260B
	10	9.8	ug/L	98	1.1	SW846 8260B
2-Hexanone	10	8.9	ug/L	89		SW846 8260B
	10	9.6	ug/L	96	7.6	SW846 8260B
Isopropylbenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.6	ug/L	96	1.3	SW846 8260B
Methyl acetate	10	8.9	ug/L	89		SW846 8260B
	10	9.0	ug/L	90	1.6	SW846 8260B
Methylene chloride	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	0.91	SW846 8260B
Methylcyclohexane	10	8.1	ug/L	81		SW846 8260B
	10	7.7	ug/L	77	4.4	SW846 8260B
4-Methyl-2-pentanone	10	9.6	ug/L	96		SW846 8260B
	10	9.2	ug/L	92	4.6	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	0.58	SW846 8260B
Styrene	10	9.6	ug/L	96		SW846 8260B
	10	9.7	ug/L	97	0.61	SW846 8260B
1,1,2,2-Tetrachloroethane	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	3.0	SW846 8260B

(Continued on next page)

**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

**Client Lot #...**: 9D08156      **Work Order #...**: K96H61AC-LCS      **Matrix.....**: WATER  
**LCS Lot-Sample#**: A9D160000-137      K96H61AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Tetrachloroethene	10	10	ug/L	102		SW846 8260B
	10	9.9	ug/L	99	2.7	SW846 8260B
<b>Toluene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>101</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.9</b>	<b>ug/L</b>	<b>99</b>	<b>1.8</b>	<b>SW846 8260B</b>
1,2,4-Trichloro-benzene	10	9.9	ug/L	99		SW846 8260B
	10	9.8	ug/L	98	1.3	SW846 8260B
1,1,1-Trichloroethane	10	9.5	ug/L	95		SW846 8260B
	10	9.2	ug/L	92	2.8	SW846 8260B
1,1,2-Trichloroethane	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	101	0.54	SW846 8260B
<b>Trichloroethene</b>	<b>10</b>	<b>9.7</b>	<b>ug/L</b>	<b>97</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>	<b>0.67</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	10	14 a	ug/L	138		SW846 8260B
	10	13 a	ug/L	134	3.5	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	10	15 a	ug/L	151		SW846 8260B
	10	14 a	ug/L	138	9.1	SW846 8260B
Vinyl chloride	10	9.5	ug/L	95		SW846 8260B
	10	9.3	ug/L	93	1.7	SW846 8260B
Xylenes (total)	30	29	ug/L	97		SW846 8260B
	30	29	ug/L	98	0.39	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
	92	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	98	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96H61AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-137      K96H61AD-LCSD  
 Prep Date.....: 04/15/09      Analysis Date...: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	77	(22 - 200)			SW846 8260B
	83	(22 - 200)	7.4	(0-95)	SW846 8260B
<b>Benzene</b>	<b>100</b>	<b>(80 - 116)</b>			<b>SW846 8260B</b>
	<b>96</b>	<b>(80 - 116)</b>	<b>4.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Bromodichloromethane	101	(87 - 130)			SW846 8260B
	98	(87 - 130)	3.2	(0-30)	SW846 8260B
Bromoform	81	(76 - 150)			SW846 8260B
	85	(76 - 150)	4.1	(0-30)	SW846 8260B
Bromomethane	148 a	(64 - 129)			SW846 8260B
	162 a	(64 - 129)	9.2	(0-30)	SW846 8260B
2-Butanone	98	(28 - 237)			SW846 8260B
	99	(28 - 237)	0.17	(0-65)	SW846 8260B
Carbon disulfide	109	(73 - 139)			SW846 8260B
	105	(73 - 139)	3.4	(0-30)	SW846 8260B
Carbon tetrachloride	113	(75 - 149)			SW846 8260B
	109	(75 - 149)	3.6	(0-30)	SW846 8260B
<b>Chlorobenzene</b>	<b>94</b>	<b>(76 - 117)</b>			<b>SW846 8260B</b>
	<b>95</b>	<b>(76 - 117)</b>	<b>1.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Chloroethane	119	(66 - 126)			SW846 8260B
	122	(66 - 126)	1.9	(0-30)	SW846 8260B
Chloroform	95	(84 - 128)			SW846 8260B
	94	(84 - 128)	0.95	(0-30)	SW846 8260B
Chloromethane	130 a	(48 - 123)			SW846 8260B
	129 a	(48 - 123)	0.45	(0-30)	SW846 8260B
Cyclohexane	81	(70 - 130)			SW846 8260B
	78	(70 - 130)	3.5	(0-30)	SW846 8260B
Dibromochloromethane	99	(81 - 138)			SW846 8260B
	96	(81 - 138)	3.0	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	91	(70 - 130)			SW846 8260B
	92	(70 - 130)	0.78	(0-30)	SW846 8260B
1,2-Dibromoethane	99	(70 - 130)			SW846 8260B
	100	(70 - 130)	0.49	(0-30)	SW846 8260B
1,2-Dichlorobenzene	97	(70 - 130)			SW846 8260B
	95	(70 - 130)	2.1	(0-30)	SW846 8260B
1,3-Dichlorobenzene	97	(70 - 130)			SW846 8260B
	96	(70 - 130)	0.68	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96H61AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-137      K96H61AD-LCSD

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
1,4-Dichlorobenzene	97	(70 - 130)			SW846 8260B
	96	(70 - 130)	1.4	(0-30)	SW846 8260B
Dichlorodifluoromethane	109	(70 - 130)			SW846 8260B
	106	(70 - 130)	2.5	(0-30)	SW846 8260B
1,1-Dichloroethane	99	(86 - 123)			SW846 8260B
	97	(86 - 123)	1.8	(0-30)	SW846 8260B
1,2-Dichloroethane	97	(79 - 136)			SW846 8260B
	94	(79 - 136)	3.0	(0-30)	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>106</b>	<b>(63 - 130)</b>			<b>SW846 8260B</b>
	<b>102</b>	<b>(63 - 130)</b>	<b>3.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	100	(85 - 113)			SW846 8260B
	100	(85 - 113)	0.030	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	97	(80 - 120)			SW846 8260B
	95	(80 - 120)	2.2	(0-30)	SW846 8260B
1,2-Dichloropropane	101	(82 - 115)			SW846 8260B
	98	(82 - 115)	2.7	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	98	(84 - 130)			SW846 8260B
	91	(84 - 130)	7.3	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	98	(84 - 130)			SW846 8260B
	96	(84 - 130)	1.6	(0-30)	SW846 8260B
Ethylbenzene	100	(86 - 116)			SW846 8260B
	98	(86 - 116)	1.1	(0-30)	SW846 8260B
2-Hexanone	89	(35 - 200)			SW846 8260B
	96	(35 - 200)	7.6	(0-52)	SW846 8260B
Isopropylbenzene	95	(70 - 130)			SW846 8260B
	96	(70 - 130)	1.3	(0-30)	SW846 8260B
Methyl acetate	89	(70 - 130)			SW846 8260B
	90	(70 - 130)	1.6	(0-30)	SW846 8260B
Methylene chloride	90	(78 - 118)			SW846 8260B
	89	(78 - 118)	0.91	(0-30)	SW846 8260B
Methylcyclohexane	81	(70 - 130)			SW846 8260B
	77	(70 - 130)	4.4	(0-30)	SW846 8260B
4-Methyl-2-pentanone	96	(78 - 141)			SW846 8260B
	92	(78 - 141)	4.6	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	91	(70 - 130)			SW846 8260B
	90	(70 - 130)	0.58	(0-30)	SW846 8260B
Styrene	96	(85 - 117)			SW846 8260B
	97	(85 - 117)	0.61	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(85 - 118)			SW846 8260B
	99	(85 - 118)	3.0	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96H61AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-137      K96H61AD-LCSD

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Tetrachloroethene	102	(88 - 113)			SW846 8260B
	99	(88 - 113)	2.7	(0-30)	SW846 8260B
<b>Toluene</b>	<b>101</b>	<b>(74 - 119)</b>			<b>SW846 8260B</b>
	<b>99</b>	<b>(74 - 119)</b>	<b>1.8</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	99	(70 - 130)			SW846 8260B
	98	(70 - 130)	1.3	(0-30)	SW846 8260B
1,1,1-Trichloroethane	95	(78 - 140)			SW846 8260B
	92	(78 - 140)	2.8	(0-30)	SW846 8260B
1,1,2-Trichloroethane	101	(83 - 122)			SW846 8260B
	101	(83 - 122)	0.54	(0-30)	SW846 8260B
<b>Trichloroethene</b>	<b>97</b>	<b>(75 - 122)</b>			<b>SW846 8260B</b>
	<b>96</b>	<b>(75 - 122)</b>	<b>0.67</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	138 a	(70 - 130)			SW846 8260B
	134 a	(70 - 130)	3.5	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	151 a	(70 - 130)			SW846 8260B
	138 a	(70 - 130)	9.1	(0-30)	SW846 8260B
Vinyl chloride	95	(61 - 120)			SW846 8260B
	93	(61 - 120)	1.7	(0-30)	SW846 8260B
Xylenes (total)	97	(87 - 116)			SW846 8260B
	98	(87 - 116)	0.39	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
	92	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	98	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96TW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-191      K96TW1AD-LCSD  
 Prep Date.....: 04/16/09      Analysis Date...: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	8.6	ug/L	86	3.0	SW846 8260B
	10	8.4	ug/L	84		SW846 8260B
<b>Benzene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>102</b>	<b>1.3</b>	<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>		<b>SW846 8260B</b>
Bromodichloromethane	10	10	ug/L	103	5.0	SW846 8260B
	10	9.8	ug/L	98		SW846 8260B
Bromoform	10	8.2	ug/L	82	0.18	SW846 8260B
	10	8.3	ug/L	83		SW846 8260B
Bromomethane	10	13 a	ug/L	134	12	SW846 8260B
	10	12	ug/L	119		SW846 8260B
2-Butanone	10	10	ug/L	101	0.21	SW846 8260B
	10	10	ug/L	102		SW846 8260B
Carbon disulfide	10	11	ug/L	110	5.7	SW846 8260B
	10	10	ug/L	104		SW846 8260B
Carbon tetrachloride	10	12	ug/L	122	5.4	SW846 8260B
	10	12	ug/L	116		SW846 8260B
<b>Chlorobenzene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>	<b>2.5</b>	<b>SW846 8260B</b>
	<b>10</b>	<b>9.7</b>	<b>ug/L</b>	<b>97</b>		<b>SW846 8260B</b>
Chloroethane	10	11	ug/L	114	3.7	SW846 8260B
	10	11	ug/L	110		SW846 8260B
Chloroform	10	10	ug/L	104	5.9	SW846 8260B
	10	9.8	ug/L	98		SW846 8260B
Chloromethane	10	12	ug/L	123	6.9	SW846 8260B
	10	11	ug/L	115		SW846 8260B
Cyclohexane	10	9.0	ug/L	90	8.1	SW846 8260B
	10	8.3	ug/L	83		SW846 8260B
Dibromochloromethane	10	10	ug/L	100	4.0	SW846 8260B
	10	9.6	ug/L	96		SW846 8260B
1,2-Dibromo-3-chloro- propane	10	9.5	ug/L	95	0.97	SW846 8260B
	10	9.4	ug/L	94		SW846 8260B
1,2-Dibromoethane	10	10	ug/L	100	1.0	SW846 8260B
	10	9.9	ug/L	99		SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	103	4.7	SW846 8260B
	10	9.8	ug/L	98		SW846 8260B
1,3-Dichlorobenzene	10	10	ug/L	103	4.3	SW846 8260B
	10	9.9	ug/L	99		SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96TW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-191      K96TW1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
1,4-Dichlorobenzene	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	101	2.7	SW846 8260B
Dichlorodifluoromethane	10	8.6	ug/L	86		SW846 8260B
	10	7.8	ug/L	78	9.9	SW846 8260B
1,1-Dichloroethane	10	11	ug/L	106		SW846 8260B
	10	10	ug/L	101	5.1	SW846 8260B
1,2-Dichloroethane	10	9.9	ug/L	99		SW846 8260B
	10	9.6	ug/L	96	2.9	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>111</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>103</b>	<b>6.6</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	10	11	ug/L	108		SW846 8260B
	10	10	ug/L	104	4.3	SW846 8260B
trans-1,2-Dichloroethene	10	10	ug/L	105		SW846 8260B
	10	9.9	ug/L	99	5.7	SW846 8260B
1,2-Dichloropropane	10	11	ug/L	105		SW846 8260B
	10	10	ug/L	102	3.2	SW846 8260B
cis-1,3-Dichloropropene	10	9.7	ug/L	97		SW846 8260B
	10	9.2	ug/L	92	6.1	SW846 8260B
trans-1,3-Dichloropropene	10	9.5	ug/L	95		SW846 8260B
	10	9.4	ug/L	94	1.7	SW846 8260B
Ethylbenzene	10	11	ug/L	106		SW846 8260B
	10	10	ug/L	101	4.8	SW846 8260B
2-Hexanone	10	9.8	ug/L	98		SW846 8260B
	10	9.1	ug/L	91	7.6	SW846 8260B
Isopropylbenzene	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	103	0.78	SW846 8260B
Methyl acetate	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.74	SW846 8260B
Methylene chloride	10	11	ug/L	107		SW846 8260B
	10	10	ug/L	103	3.9	SW846 8260B
Methylcyclohexane	10	9.1	ug/L	91		SW846 8260B
	10	8.0	ug/L	80	13	SW846 8260B
4-Methyl-2-pentanone	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	1.4	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	2.0	SW846 8260B
Styrene	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	101	2.2	SW846 8260B
1,1,2,2-Tetrachloroethane	10	10	ug/L	101		SW846 8260B
	10	9.9	ug/L	99	1.4	SW846 8260B

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**LABORATORY CONTROL SAMPLE DATA REPORT**

**GC/MS Volatiles**

**Client Lot #...**: 9D08156      **Work Order #...**: K96TW1AC-LCS      **Matrix.....**: WATER  
**LCS Lot-Sample#**: A9D160000-191      K96TW1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Tetrachloroethene	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	100	3.7	SW846 8260B
<b>Toluene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>103</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>	<b>3.1</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	10	10	ug/L	101		SW846 8260B
	10	9.9	ug/L	99	2.1	SW846 8260B
1,1,1-Trichloroethane	10	10	ug/L	102		SW846 8260B
	10	9.7	ug/L	97	5.2	SW846 8260B
1,1,2-Trichloroethane	10	10	ug/L	101		SW846 8260B
	10	9.8	ug/L	98	2.2	SW846 8260B
<b>Trichloroethene</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>102</b>		<b>SW846 8260B</b>
	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>101</b>	<b>1.2</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	10	16 a	ug/L	156		SW846 8260B
	10	14 a	ug/L	139	12	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	17 a	ug/L	168		SW846 8260B
	10	16 a	ug/L	157	6.4	SW846 8260B
Vinyl chloride	10	9.7	ug/L	97		SW846 8260B
	10	9.2	ug/L	92	5.3	SW846 8260B
Xylenes (total)	30	32	ug/L	105		SW846 8260B
	30	31	ug/L	102	3.0	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	95	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	89	(61 - 128)
Toluene-d8	94	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	100	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96TW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-191      K96TW1AD-LCSD  
 Prep Date.....: 04/16/09      Analysis Date...: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1      Final Wgt/Vol...: 5 mL  
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	86	(22 - 200)			SW846 8260B
	84	(22 - 200)	3.0	(0-95)	SW846 8260B
<b>Benzene</b>	<b>102</b>	<b>(80 - 116)</b>			<b>SW846 8260B</b>
	<b>100</b>	<b>(80 - 116)</b>	<b>1.3</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Bromodichloromethane	103	(87 - 130)			SW846 8260B
	98	(87 - 130)	5.0	(0-30)	SW846 8260B
Bromoform	82	(76 - 150)			SW846 8260B
	83	(76 - 150)	0.18	(0-30)	SW846 8260B
Bromomethane	134 a	(64 - 129)			SW846 8260B
	119	(64 - 129)	12	(0-30)	SW846 8260B
2-Butanone	101	(28 - 237)			SW846 8260B
	102	(28 - 237)	0.21	(0-65)	SW846 8260B
Carbon disulfide	110	(73 - 139)			SW846 8260B
	104	(73 - 139)	5.7	(0-30)	SW846 8260B
Carbon tetrachloride	122	(75 - 149)			SW846 8260B
	116	(75 - 149)	5.4	(0-30)	SW846 8260B
<b>Chlorobenzene</b>	<b>100</b>	<b>(76 - 117)</b>			<b>SW846 8260B</b>
	<b>97</b>	<b>(76 - 117)</b>	<b>2.5</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Chloroethane	114	(66 - 126)			SW846 8260B
	110	(66 - 126)	3.7	(0-30)	SW846 8260B
Chloroform	104	(84 - 128)			SW846 8260B
	98	(84 - 128)	5.9	(0-30)	SW846 8260B
Chloromethane	123	(48 - 123)			SW846 8260B
	115	(48 - 123)	6.9	(0-30)	SW846 8260B
Cyclohexane	90	(70 - 130)			SW846 8260B
	83	(70 - 130)	8.1	(0-30)	SW846 8260B
Dibromochloromethane	100	(81 - 138)			SW846 8260B
	96	(81 - 138)	4.0	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	95	(70 - 130)			SW846 8260B
	94	(70 - 130)	0.97	(0-30)	SW846 8260B
1,2-Dibromoethane	100	(70 - 130)			SW846 8260B
	99	(70 - 130)	1.0	(0-30)	SW846 8260B
1,2-Dichlorobenzene	103	(70 - 130)			SW846 8260B
	98	(70 - 130)	4.7	(0-30)	SW846 8260B
1,3-Dichlorobenzene	103	(70 - 130)			SW846 8260B
	99	(70 - 130)	4.3	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96TW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-191      K96TW1AD-LCSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
1,4-Dichlorobenzene	103	(70 - 130)			SW846 8260B
	101	(70 - 130)	2.7	(0-30)	SW846 8260B
Dichlorodifluoromethane	86	(70 - 130)			SW846 8260B
	78	(70 - 130)	9.9	(0-30)	SW846 8260B
1,1-Dichloroethane	106	(86 - 123)			SW846 8260B
	101	(86 - 123)	5.1	(0-30)	SW846 8260B
1,2-Dichloroethane	99	(79 - 136)			SW846 8260B
	96	(79 - 136)	2.9	(0-30)	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>111</b>	<b>(63 - 130)</b>			<b>SW846 8260B</b>
	<b>103</b>	<b>(63 - 130)</b>	<b>6.6</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	108	(85 - 113)			SW846 8260B
	104	(85 - 113)	4.3	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	105	(80 - 120)			SW846 8260B
	99	(80 - 120)	5.7	(0-30)	SW846 8260B
1,2-Dichloropropane	105	(82 - 115)			SW846 8260B
	102	(82 - 115)	3.2	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	97	(84 - 130)			SW846 8260B
	92	(84 - 130)	6.1	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	95	(84 - 130)			SW846 8260B
	94	(84 - 130)	1.7	(0-30)	SW846 8260B
Ethylbenzene	106	(86 - 116)			SW846 8260B
	101	(86 - 116)	4.8	(0-30)	SW846 8260B
2-Hexanone	98	(35 - 200)			SW846 8260B
	91	(35 - 200)	7.6	(0-52)	SW846 8260B
Isopropylbenzene	104	(70 - 130)			SW846 8260B
	103	(70 - 130)	0.78	(0-30)	SW846 8260B
Methyl acetate	94	(70 - 130)			SW846 8260B
	94	(70 - 130)	0.74	(0-30)	SW846 8260B
Methylene chloride	107	(78 - 118)			SW846 8260B
	103	(78 - 118)	3.9	(0-30)	SW846 8260B
Methylcyclohexane	91	(70 - 130)			SW846 8260B
	80	(70 - 130)	13	(0-30)	SW846 8260B
4-Methyl-2-pentanone	96	(78 - 141)			SW846 8260B
	95	(78 - 141)	1.4	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(70 - 130)			SW846 8260B
	94	(70 - 130)	2.0	(0-30)	SW846 8260B
Styrene	104	(85 - 117)			SW846 8260B
	101	(85 - 117)	2.2	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	101	(85 - 118)			SW846 8260B
	99	(85 - 118)	1.4	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K96TW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: A9D160000-191      K96TW1AD-LCSD

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Tetrachloroethene	104	(88 - 113)			SW846 8260B
	100	(88 - 113)	3.7	(0-30)	SW846 8260B
<b>Toluene</b>	<b>103</b>	<b>(74 - 119)</b>			<b>SW846 8260B</b>
	<b>100</b>	<b>(74 - 119)</b>	<b>3.1</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	101	(70 - 130)			SW846 8260B
	99	(70 - 130)	2.1	(0-30)	SW846 8260B
1,1,1-Trichloroethane	102	(78 - 140)			SW846 8260B
	97	(78 - 140)	5.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	101	(83 - 122)			SW846 8260B
	98	(83 - 122)	2.2	(0-30)	SW846 8260B
<b>Trichloroethene</b>	<b>102</b>	<b>(75 - 122)</b>			<b>SW846 8260B</b>
	<b>101</b>	<b>(75 - 122)</b>	<b>1.2</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	156 a	(70 - 130)			SW846 8260B
	139 a	(70 - 130)	12	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	168 a	(70 - 130)			SW846 8260B
	157 a	(70 - 130)	6.4	(0-30)	SW846 8260B
Vinyl chloride	97	(61 - 120)			SW846 8260B
	92	(61 - 120)	5.3	(0-30)	SW846 8260B
Xylenes (total)	105	(87 - 116)			SW846 8260B
	102	(87 - 116)	3.0	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
	95	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	89	(61 - 128)
Toluene-d8	94	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	100	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156                      Work Order #...: K9QV41AC-MS                      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008                      K9QV41AD-MSD  
 Date Sampled...: 04/06/09 16:15                      Date Received...: 04/08/09  
 Prep Date.....: 04/14/09                      Analysis Date...: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1                      Initial Wgt/Vol: 5 mL                      Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.83	SW846 8260B
<b>Benzene</b>	<b>ND</b>	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>9.5</b>	<b>ug/L</b>	<b>95</b>	<b>1.4</b>	<b>SW846 8260B</b>
Bromodichloromethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.27	SW846 8260B
Bromoform	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.1	ug/L	81	0.33	SW846 8260B
Bromomethane	ND	10	14	ug/L	145		SW846 8260B
	ND	10	13	ug/L	135	7.0	SW846 8260B
2-Butanone	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.0	ug/L	90	2.4	SW846 8260B
Carbon disulfide	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	108	1.1	SW846 8260B
Carbon tetrachloride	ND	10	11	ug/L	115		SW846 8260B
	ND	10	11	ug/L	114	0.21	SW846 8260B
<b>Chlorobenzene</b>	<b>ND</b>	<b>10</b>	<b>9.0</b>	<b>ug/L</b>	<b>90</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>9.4</b>	<b>ug/L</b>	<b>94</b>	<b>4.5</b>	<b>SW846 8260B</b>
Chloroethane	ND	10	13	ug/L	129		SW846 8260B
	ND	10	13	ug/L	125	2.8	SW846 8260B
Chloroform	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	99	0.24	SW846 8260B
Chloromethane	ND	10	11	ug/L	113		SW846 8260B
	ND	10	11	ug/L	111	1.9	SW846 8260B
Cyclohexane	ND	10	7.4	ug/L	74		SW846 8260B
	ND	10	7.5	ug/L	75	1.7	SW846 8260B
Dibromochloromethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.3	ug/L	93	0.91	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.7	ug/L	87	3.9	SW846 8260B
1,2-Dibromoethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.39	SW846 8260B
1,2-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.3	ug/L	93	5.0	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.0	ug/L	90	0.84	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.2	ug/L	92	3.9	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QV41AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008      K9QV41AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	10	7.2	ug/L	72		SW846 8260B
	ND	10	6.7	ug/L	67 a	8.1	SW846 8260B
1,1-Dichloroethane	0.81	10	11	ug/L	98		SW846 8260B
	0.81	10	11	ug/L	99	0.02	SW846 8260B
1,2-Dichloroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.4	ug/L	94	1.0	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>0.55</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>107</b>		<b>SW846 8260B</b>
	<b>0.55</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>103</b>	<b>3.7</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	0.24	10	10	ug/L	100		SW846 8260B
	0.24	10	10	ug/L	100	0.16	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	100	0.28	SW846 8260B
1,2-Dichloropropane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	100	3.3	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.6	ug/L	76 a		SW846 8260B
	ND	10	7.6	ug/L	76 a	0.47	SW846 8260B
trans-1,3-Dichloropropene	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	7.7	ug/L	77	2.3	SW846 8260B
Ethylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.5	ug/L	95	3.4	SW846 8260B
2-Hexanone	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	9.0	ug/L	90	7.3	SW846 8260B
Isopropylbenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.7	ug/L	97	5.2	SW846 8260B
Methyl acetate	ND	10	7.4	ug/L	74		SW846 8260B
	ND	10	6.8	ug/L	68 a	8.4	SW846 8260B
Methylene chloride	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.1	ug/L	91	1.0	SW846 8260B
Methylcyclohexane	ND	10	6.7	ug/L	67 a		SW846 8260B
	ND	10	6.9	ug/L	69 a	3.6	SW846 8260B
4-Methyl-2-pentanone	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	8.6	ug/L	86	2.4	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.5	ug/L	95	1.7	SW846 8260B
Styrene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.6	ug/L	96	1.5	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.5	ug/L	95	3.9	SW846 8260B
Tetrachloroethene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.3	ug/L	93	4.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QV41AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008      K9QV41AD-MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Toluene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.4	ug/L	94	2.8	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.8	ug/L	88	6.4	SW846 8260B
1,1,1-Trichloroethane	5.3	10	15	ug/L	101		SW846 8260B
	5.3	10	15	ug/L	98	2.2	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.4	ug/L	94	2.1	SW846 8260B
Trichloroethene	0.99	10	10	ug/L	92		SW846 8260B
	0.99	10	10	ug/L	92	0.36	SW846 8260B
Trichlorofluoromethane	ND	10	14	ug/L	140	a	SW846 8260B
	ND	10	13	ug/L	131	a	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	14	ug/L	144	a	SW846 8260B
	ND	10	14	ug/L	144	a	SW846 8260B
Vinyl chloride	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.4	ug/L	94	0.91	SW846 8260B
Xylenes (total)	ND	30	28	ug/L	93		SW846 8260B
	ND	30	30	ug/L	98	5.2	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	93	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	106	(74 - 116)
	104	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QV41AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008      K9QV41AD-MSD  
 Date Sampled...: 04/06/09 16:15      Date Received...: 04/08/09  
 Prep Date.....: 04/14/09      Analysis Date...: 04/14/09  
 Prep Batch #...: 9104299  
 Dilution Factor: 1      Initial Wgt/Vol: 5 mL      Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	95	(45 - 128)			SW846 8260B
	95	(45 - 128)	0.83	(0-30)	SW846 8260B
<b>Benzene</b>	<b>96</b>	<b>(78 - 118)</b>			<b>SW846 8260B</b>
	<b>95</b>	<b>(78 - 118)</b>	<b>1.4</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Bromodichloromethane	96	(80 - 146)			SW846 8260B
	96	(80 - 146)	0.27	(0-30)	SW846 8260B
Bromoform	81	(58 - 176)			SW846 8260B
	81	(58 - 176)	0.33	(0-30)	SW846 8260B
Bromomethane	145	(55 - 145)			SW846 8260B
	135	(55 - 145)	7.0	(0-30)	SW846 8260B
2-Butanone	92	(71 - 123)			SW846 8260B
	90	(71 - 123)	2.4	(0-30)	SW846 8260B
Carbon disulfide	107	(69 - 138)			SW846 8260B
	108	(69 - 138)	1.1	(0-41)	SW846 8260B
Carbon tetrachloride	115	(63 - 176)			SW846 8260B
	114	(63 - 176)	0.21	(0-30)	SW846 8260B
<b>Chlorobenzene</b>	<b>90</b>	<b>(76 - 117)</b>			<b>SW846 8260B</b>
	<b>94</b>	<b>(76 - 117)</b>	<b>4.5</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Chloroethane	129	(59 - 142)			SW846 8260B
	125	(59 - 142)	2.8	(0-30)	SW846 8260B
Chloroform	99	(83 - 141)			SW846 8260B
	99	(83 - 141)	0.24	(0-30)	SW846 8260B
Chloromethane	113	(40 - 137)			SW846 8260B
	111	(40 - 137)	1.9	(0-39)	SW846 8260B
Cyclohexane	74	(70 - 130)			SW846 8260B
	75	(70 - 130)	1.7	(0-30)	SW846 8260B
Dibromochloromethane	92	(71 - 158)			SW846 8260B
	93	(71 - 158)	0.91	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	84	(70 - 130)			SW846 8260B
	87	(70 - 130)	3.9	(0-30)	SW846 8260B
1,2-Dibromoethane	93	(70 - 130)			SW846 8260B
	93	(70 - 130)	0.39	(0-30)	SW846 8260B
1,2-Dichlorobenzene	88	(70 - 130)			SW846 8260B
	93	(70 - 130)	5.0	(0-30)	SW846 8260B
1,3-Dichlorobenzene	89	(70 - 130)			SW846 8260B
	90	(70 - 130)	0.84	(0-30)	SW846 8260B
1,4-Dichlorobenzene	88	(70 - 130)			SW846 8260B
	92	(70 - 130)	3.9	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QV41AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008      K9QV41AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Dichlorodifluoromethane	72	(70 - 130)			SW846 8260B
	67 a	(70 - 130)	8.1	(0-30)	SW846 8260B
1,1-Dichloroethane	98	(88 - 127)			SW846 8260B
	99	(88 - 127)	0.02	(0-30)	SW846 8260B
1,2-Dichloroethane	95	(71 - 160)			SW846 8260B
	94	(71 - 160)	1.0	(0-30)	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>107</b>	<b>(62 - 130)</b>			<b>SW846 8260B</b>
	<b>103</b>	<b>(62 - 130)</b>	<b>3.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	100	(87 - 114)			SW846 8260B
	100	(87 - 114)	0.16	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	99	(85 - 116)			SW846 8260B
	100	(85 - 116)	0.28	(0-30)	SW846 8260B
1,2-Dichloropropane	97	(87 - 114)			SW846 8260B
	100	(87 - 114)	3.3	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	76 a	(82 - 130)			SW846 8260B
	76 a	(82 - 130)	0.47	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	79	(73 - 147)			SW846 8260B
	77	(73 - 147)	2.3	(0-30)	SW846 8260B
Ethylbenzene	92	(86 - 132)			SW846 8260B
	95	(86 - 132)	3.4	(0-30)	SW846 8260B
2-Hexanone	84	(81 - 128)			SW846 8260B
	90	(81 - 128)	7.3	(0-30)	SW846 8260B
Isopropylbenzene	92	(70 - 130)			SW846 8260B
	97	(70 - 130)	5.2	(0-30)	SW846 8260B
Methyl acetate	74	(70 - 130)			SW846 8260B
	68 a	(70 - 130)	8.4	(0-30)	SW846 8260B
Methylene chloride	92	(82 - 115)			SW846 8260B
	91	(82 - 115)	1.0	(0-30)	SW846 8260B
Methylcyclohexane	67 a	(70 - 130)			SW846 8260B
	69 a	(70 - 130)	3.6	(0-30)	SW846 8260B
4-Methyl-2-pentanone	88	(82 - 135)			SW846 8260B
	86	(82 - 135)	2.4	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	93	(70 - 130)			SW846 8260B
	95	(70 - 130)	1.7	(0-30)	SW846 8260B
Styrene	94	(83 - 120)			SW846 8260B
	96	(83 - 120)	1.5	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	91	(88 - 116)			SW846 8260B
	95	(88 - 116)	3.9	(0-30)	SW846 8260B
Tetrachloroethene	89	(85 - 121)			SW846 8260B
	93	(85 - 121)	4.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QV41AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-008      K9QV41AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>Toluene</b>	<b>91</b>	<b>(70 - 119)</b>			<b>SW846 8260B</b>
	<b>94</b>	<b>(70 - 119)</b>	<b>2.8</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	83	(70 - 130)			SW846 8260B
	88	(70 - 130)	6.4	(0-30)	SW846 8260B
1,1,1-Trichloroethane	101	(71 - 162)			SW846 8260B
	98	(71 - 162)	2.2	(0-30)	SW846 8260B
1,1,2-Trichloroethane	92	(86 - 129)			SW846 8260B
	94	(86 - 129)	2.1	(0-30)	SW846 8260B
<b>Trichloroethene</b>	<b>92</b>	<b>(62 - 130)</b>			<b>SW846 8260B</b>
	<b>92</b>	<b>(62 - 130)</b>	<b>0.36</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	140 a	(70 - 130)			SW846 8260B
	131 a	(70 - 130)	6.2	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	144 a	(70 - 130)			SW846 8260B
	144 a	(70 - 130)	0.49	(0-30)	SW846 8260B
Vinyl chloride	95	(88 - 126)			SW846 8260B
	94	(88 - 126)	0.91	(0-30)	SW846 8260B
Xylenes (total)	93	(89 - 121)			SW846 8260B
	98	(89 - 121)	5.2	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	93	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	106	(74 - 116)
	104	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156                      Work Order #...: K9QXP1AC-MS                      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029                      K9QXP1AD-MSD  
 Date Sampled...: 04/07/09 15:45                      Date Received...: 04/08/09  
 Prep Date.....: 04/15/09                      Analysis Date...: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 11.11                      Initial Wgt/Vol: 5 mL                      Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	ND	110	100	ug/L	93		SW846 8260B
	ND	110	110	ug/L	96	3.4	SW846 8260B
<b>Benzene</b>	<b>ND</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>95</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>95</b>	<b>0.23</b>	<b>SW846 8260B</b>
Bromodichloromethane	ND	110	110	ug/L	98		SW846 8260B
	ND	110	100	ug/L	92	6.5	SW846 8260B
Bromoform	ND	110	90	ug/L	81		SW846 8260B
	ND	110	86	ug/L	77	4.7	SW846 8260B
Bromomethane	ND	110	94	ug/L	85		SW846 8260B
	ND	110	120	ug/L	104	21	SW846 8260B
2-Butanone	ND	110	120	ug/L	105		SW846 8260B
	ND	110	110	ug/L	99	5.5	SW846 8260B
Carbon disulfide	ND	110	110	ug/L	98		SW846 8260B
	ND	110	110	ug/L	101	3.9	SW846 8260B
Carbon tetrachloride	ND	110	120	ug/L	109		SW846 8260B
	ND	110	120	ug/L	110	0.66	SW846 8260B
<b>Chlorobenzene</b>	<b>ND</b>	<b>110</b>	<b>100</b>	<b>ug/L</b>	<b>93</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>110</b>	<b>98</b>	<b>ug/L</b>	<b>89</b>	<b>4.7</b>	<b>SW846 8260B</b>
Chloroethane	ND	110	91	ug/L	82		SW846 8260B
	ND	110	110	ug/L	95	15	SW846 8260B
Chloroform	ND	110	100	ug/L	92		SW846 8260B
	ND	110	100	ug/L	91	0.68	SW846 8260B
Chloromethane	ND	110	120	ug/L	108		SW846 8260B
	ND	110	130	ug/L	113	4.7	SW846 8260B
Cyclohexane	ND	110	82	ug/L	73		SW846 8260B
	ND	110	97	ug/L	87	17	SW846 8260B
Dibromochloromethane	ND	110	110	ug/L	95		SW846 8260B
	ND	110	100	ug/L	94	1.8	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	110	100	ug/L	91		SW846 8260B
	ND	110	98	ug/L	88	3.3	SW846 8260B
1,2-Dibromoethane	ND	110	110	ug/L	98		SW846 8260B
	ND	110	100	ug/L	94	3.5	SW846 8260B
1,2-Dichlorobenzene	ND	110	100	ug/L	92		SW846 8260B
	ND	110	97	ug/L	88	4.9	SW846 8260B
1,3-Dichlorobenzene	ND	110	100	ug/L	90		SW846 8260B
	ND	110	96	ug/L	86	4.4	SW846 8260B
1,4-Dichlorobenzene	ND	110	100	ug/L	91		SW846 8260B
	ND	110	99	ug/L	89	2.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QXP1AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029      K9QXP1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	110	110	ug/L	100		SW846 8260B
	ND	110	140	ug/L	125	22	SW846 8260B
1,1-Dichloroethane	ND	110	110	ug/L	97		SW846 8260B
	ND	110	100	ug/L	92	5.4	SW846 8260B
1,2-Dichloroethane	ND	110	110	ug/L	96		SW846 8260B
	ND	110	100	ug/L	91	5.6	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>ND</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>98</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>110</b>	<b>120</b>	<b>ug/L</b>	<b>105</b>	<b>6.7</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	3.0	110	110	ug/L	94		SW846 8260B
	3.0	110	110	ug/L	92	1.3	SW846 8260B
trans-1,2-Dichloroethene	ND	110	100	ug/L	94		SW846 8260B
	ND	110	100	ug/L	92	2.0	SW846 8260B
1,2-Dichloropropane	ND	110	110	ug/L	98		SW846 8260B
	ND	110	110	ug/L	96	2.1	SW846 8260B
cis-1,3-Dichloropropene	ND	110	90	ug/L	81	a	SW846 8260B
	ND	110	88	ug/L	79	a 3.1	SW846 8260B
trans-1,3-Dichloropropene	ND	110	97	ug/L	87		SW846 8260B
	ND	110	94	ug/L	85	2.8	SW846 8260B
Ethylbenzene	ND	110	100	ug/L	94		SW846 8260B
	ND	110	98	ug/L	89	5.6	SW846 8260B
2-Hexanone	ND	110	110	ug/L	101		SW846 8260B
	ND	110	100	ug/L	91	9.8	SW846 8260B
Isopropylbenzene	ND	110	100	ug/L	92		SW846 8260B
	ND	110	97	ug/L	87	5.2	SW846 8260B
Methyl acetate	ND	110	97	ug/L	87		SW846 8260B
	ND	110	99	ug/L	90	2.4	SW846 8260B
Methylene chloride	ND	110	98	ug/L	89		SW846 8260B
	ND	110	94	ug/L	85	4.1	SW846 8260B
Methylcyclohexane	ND	110	83	ug/L	74		SW846 8260B
	ND	110	96	ug/L	87	15	SW846 8260B
4-Methyl-2-pentanone	ND	110	100	ug/L	90		SW846 8260B
	ND	110	99	ug/L	89	0.35	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	110	98	ug/L	88		SW846 8260B
	ND	110	94	ug/L	84	4.8	SW846 8260B
Styrene	ND	110	110	ug/L	95		SW846 8260B
	ND	110	99	ug/L	89	6.3	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	110	110	ug/L	96		SW846 8260B
	ND	110	110	ug/L	95	0.50	SW846 8260B
Tetrachloroethene	380	110	470	ug/L	78	a	SW846 8260B
	380	110	470	ug/L	77	a 0.24	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QXP1AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029      K9QXP1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
<b>Toluene</b>	<b>ND</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>96</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>110</b>	<b>100</b>	<b>ug/L</b>	<b>92</b>	<b>4.8</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	ND	110	94	ug/L	85		SW846 8260B
	ND	110	91	ug/L	82	3.7	SW846 8260B
1,1,1-Trichloroethane	ND	110	100	ug/L	90		SW846 8260B
	ND	110	99	ug/L	89	1.5	SW846 8260B
1,1,2-Trichloroethane	ND	110	110	ug/L	100		SW846 8260B
	ND	110	110	ug/L	96	4.7	SW846 8260B
<b>Trichloroethene</b>	<b>7.3</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>93</b>		<b>SW846 8260B</b>
	<b>7.3</b>	<b>110</b>	<b>110</b>	<b>ug/L</b>	<b>89</b>	<b>3.4</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	ND	110	120	ug/L	111		SW846 8260B
	ND	110	140	ug/L	129	15	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	110	160	ug/L	145	a	SW846 8260B
	ND	110	190	ug/L	172	a 17	SW846 8260B
Vinyl chloride	ND	110	100	ug/L	91		SW846 8260B
	ND	110	110	ug/L	97	6.5	SW846 8260B
Xylenes (total)	ND	330	320	ug/L	95		SW846 8260B
	ND	330	300	ug/L	90	5.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	94	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	96	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156                      Work Order #...: K9QXP1AC-MS                      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029                      K9QXP1AD-MSD  
 Date Sampled...: 04/07/09 15:45                      Date Received...: 04/08/09  
 Prep Date.....: 04/15/09                      Analysis Date...: 04/15/09  
 Prep Batch #...: 9106137  
 Dilution Factor: 11.11                      Initial Wgt/Vol: 5 mL                      Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	93	(45 - 128)			SW846 8260B
	96	(45 - 128)	3.4	(0-30)	SW846 8260B
<b>Benzene</b>	<b>95</b>	<b>(78 - 118)</b>			<b>SW846 8260B</b>
	<b>95</b>	<b>(78 - 118)</b>	<b>0.23</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Bromodichloromethane	98	(80 - 146)			SW846 8260B
	92	(80 - 146)	6.5	(0-30)	SW846 8260B
Bromoform	81	(58 - 176)			SW846 8260B
	77	(58 - 176)	4.7	(0-30)	SW846 8260B
Bromomethane	85	(55 - 145)			SW846 8260B
	104	(55 - 145)	21	(0-30)	SW846 8260B
2-Butanone	105	(71 - 123)			SW846 8260B
	99	(71 - 123)	5.5	(0-30)	SW846 8260B
Carbon disulfide	98	(69 - 138)			SW846 8260B
	101	(69 - 138)	3.9	(0-41)	SW846 8260B
Carbon tetrachloride	109	(63 - 176)			SW846 8260B
	110	(63 - 176)	0.66	(0-30)	SW846 8260B
<b>Chlorobenzene</b>	<b>93</b>	<b>(76 - 117)</b>			<b>SW846 8260B</b>
	<b>89</b>	<b>(76 - 117)</b>	<b>4.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Chloroethane	82	(59 - 142)			SW846 8260B
	95	(59 - 142)	15	(0-30)	SW846 8260B
Chloroform	92	(83 - 141)			SW846 8260B
	91	(83 - 141)	0.68	(0-30)	SW846 8260B
Chloromethane	108	(40 - 137)			SW846 8260B
	113	(40 - 137)	4.7	(0-39)	SW846 8260B
Cyclohexane	73	(70 - 130)			SW846 8260B
	87	(70 - 130)	17	(0-30)	SW846 8260B
Dibromochloromethane	95	(71 - 158)			SW846 8260B
	94	(71 - 158)	1.8	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	91	(70 - 130)			SW846 8260B
	88	(70 - 130)	3.3	(0-30)	SW846 8260B
1,2-Dibromoethane	98	(70 - 130)			SW846 8260B
	94	(70 - 130)	3.5	(0-30)	SW846 8260B
1,2-Dichlorobenzene	92	(70 - 130)			SW846 8260B
	88	(70 - 130)	4.9	(0-30)	SW846 8260B
1,3-Dichlorobenzene	90	(70 - 130)			SW846 8260B
	86	(70 - 130)	4.4	(0-30)	SW846 8260B
1,4-Dichlorobenzene	91	(70 - 130)			SW846 8260B
	89	(70 - 130)	2.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QXP1AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029      K9QXP1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dichlorodifluoromethane	100	(70 - 130)			SW846 8260B
	125	(70 - 130)	22	(0-30)	SW846 8260B
1,1-Dichloroethane	97	(88 - 127)			SW846 8260B
	92	(88 - 127)	5.4	(0-30)	SW846 8260B
1,2-Dichloroethane	96	(71 - 160)			SW846 8260B
	91	(71 - 160)	5.6	(0-30)	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>98</b>	<b>(62 - 130)</b>			<b>SW846 8260B</b>
	<b>105</b>	<b>(62 - 130)</b>	<b>6.7</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	94	(87 - 114)			SW846 8260B
	92	(87 - 114)	1.3	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(85 - 116)			SW846 8260B
	92	(85 - 116)	2.0	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(87 - 114)			SW846 8260B
	96	(87 - 114)	2.1	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	81 a	(82 - 130)			SW846 8260B
	79 a	(82 - 130)	3.1	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(73 - 147)			SW846 8260B
	85	(73 - 147)	2.8	(0-30)	SW846 8260B
Ethylbenzene	94	(86 - 132)			SW846 8260B
	89	(86 - 132)	5.6	(0-30)	SW846 8260B
2-Hexanone	101	(81 - 128)			SW846 8260B
	91	(81 - 128)	9.8	(0-30)	SW846 8260B
Isopropylbenzene	92	(70 - 130)			SW846 8260B
	87	(70 - 130)	5.2	(0-30)	SW846 8260B
Methyl acetate	87	(70 - 130)			SW846 8260B
	90	(70 - 130)	2.4	(0-30)	SW846 8260B
Methylene chloride	89	(82 - 115)			SW846 8260B
	85	(82 - 115)	4.1	(0-30)	SW846 8260B
Methylcyclohexane	74	(70 - 130)			SW846 8260B
	87	(70 - 130)	15	(0-30)	SW846 8260B
4-Methyl-2-pentanone	90	(82 - 135)			SW846 8260B
	89	(82 - 135)	0.35	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	88	(70 - 130)			SW846 8260B
	84	(70 - 130)	4.8	(0-30)	SW846 8260B
Styrene	95	(83 - 120)			SW846 8260B
	89	(83 - 120)	6.3	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	96	(88 - 116)			SW846 8260B
	95	(88 - 116)	0.50	(0-30)	SW846 8260B
Tetrachloroethene	78 a	(85 - 121)			SW846 8260B
	77 a	(85 - 121)	0.24	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9QXP1AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D080156-029      K9QXP1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>Toluene</b>	<b>96</b>	<b>(70 - 119)</b>			<b>SW846 8260B</b>
	<b>92</b>	<b>(70 - 119)</b>	<b>4.8</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	85	(70 - 130)			SW846 8260B
	82	(70 - 130)	3.7	(0-30)	SW846 8260B
1,1,1-Trichloroethane	90	(71 - 162)			SW846 8260B
	89	(71 - 162)	1.5	(0-30)	SW846 8260B
1,1,2-Trichloroethane	100	(86 - 129)			SW846 8260B
	96	(86 - 129)	4.7	(0-30)	SW846 8260B
<b>Trichloroethene</b>	<b>93</b>	<b>(62 - 130)</b>			<b>SW846 8260B</b>
	<b>89</b>	<b>(62 - 130)</b>	<b>3.4</b>	<b>(0-20)</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	111	(70 - 130)			SW846 8260B
	129	(70 - 130)	15	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	145 a	(70 - 130)			SW846 8260B
	172 a	(70 - 130)	17	(0-30)	SW846 8260B
Vinyl chloride	91	(88 - 126)			SW846 8260B
	97	(88 - 126)	6.5	(0-30)	SW846 8260B
Xylenes (total)	95	(89 - 121)			SW846 8260B
	90	(89 - 121)	5.3	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	91	(61 - 128)
Toluene-d8	94	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	96	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156                      Work Order #...: K9VE31AC-MS                      Matrix.....: WG  
 MS Lot-Sample #: A9D090186-001                      K9VE31AD-MSD  
 Date Sampled...: 04/08/09 08:35                      Date Received...: 04/09/09  
 Prep Date.....: 04/16/09                      Analysis Date...: 04/16/09  
 Prep Batch #...: 9106191  
 Dilution Factor: 1                      Initial Wgt/Vol: 5 mL                      Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.0	ug/L	90	10	SW846 8260B
<b>Benzene</b>	<b>ND</b>	<b>10</b>	<b>9.9</b>	<b>ug/L</b>	<b>99</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>	<b>1.5</b>	<b>SW846 8260B</b>
Bromodichloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.8	ug/L	98	1.3	SW846 8260B
Bromoform	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.2	ug/L	82	1.4	SW846 8260B
Bromomethane	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.9	ug/L	89	8.4	SW846 8260B
2-Butanone	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	101	1.9	SW846 8260B
Carbon disulfide	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	0.83	SW846 8260B
Carbon tetrachloride	ND	10	12	ug/L	115		SW846 8260B
	ND	10	11	ug/L	112	2.8	SW846 8260B
<b>Chlorobenzene</b>	<b>ND</b>	<b>10</b>	<b>9.6</b>	<b>ug/L</b>	<b>96</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>9.5</b>	<b>ug/L</b>	<b>95</b>	<b>1.4</b>	<b>SW846 8260B</b>
Chloroethane	ND	10	8.3	ug/L	83		SW846 8260B
	ND	10	8.3	ug/L	83	0.69	SW846 8260B
Chloroform	0.51	10	10	ug/L	95		SW846 8260B
	0.51	10	10	ug/L	95	0.21	SW846 8260B
Chloromethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	10	ug/L	102	3.0	SW846 8260B
Cyclohexane	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.6	ug/L	86	0.38	SW846 8260B
Dibromochloromethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.7	ug/L	97	2.4	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.3	ug/L	93	1.1	SW846 8260B
1,2-Dibromoethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	100	0.90	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.04	SW846 8260B
1,3-Dichlorobenzene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.03	SW846 8260B
1,4-Dichlorobenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.7	ug/L	97	1.5	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9VE31AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D090186-001      K9VE31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.2	ug/L	82	2.0	SW846 8260B
1,1-Dichloroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.7	ug/L	97	1.5	SW846 8260B
1,2-Dichloroethane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	1.1	SW846 8260B
<b>1,1-Dichloroethene</b>	<b>ND</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>106</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>103</b>	<b>3.1</b>	<b>SW846 8260B</b>
cis-1,2-Dichloroethene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.8	ug/L	98	0.89	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.7	ug/L	97	1.7	SW846 8260B
1,2-Dichloropropane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	10	ug/L	101	0.26	SW846 8260B
cis-1,3-Dichloropropene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.9	ug/L	89	2.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.4	ug/L	94	0.30	SW846 8260B
Ethylbenzene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.8	ug/L	98	1.8	SW846 8260B
2-Hexanone	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	102	8.5	SW846 8260B
Isopropylbenzene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	9.7	ug/L	97	0.76	SW846 8260B
Methyl acetate	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.0	ug/L	90	2.3	SW846 8260B
Methylene chloride	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.3	ug/L	83	0.82	SW846 8260B
Methylcyclohexane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.9	ug/L	89	2.4	SW846 8260B
4-Methyl-2-pentanone	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.6	ug/L	96	0.17	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.9	ug/L	89	0.36	SW846 8260B
Styrene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.8	ug/L	98	2.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.9	ug/L	99	1.0	SW846 8260B
Tetrachloroethene	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	103	2.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9D08156      Work Order #...: K9VE31AC-MS      Matrix.....: WG  
 MS Lot-Sample #: A9D090186-001      K9VE31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
<b>Toluene</b>	<b>ND</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>		<b>SW846 8260B</b>
	<b>ND</b>	<b>10</b>	<b>10</b>	<b>ug/L</b>	<b>100</b>	<b>0.34</b>	<b>SW846 8260B</b>
1,2,4-Trichloro- benzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.7	ug/L	97	2.2	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.15	SW846 8260B
1,1,2-Trichloroethane	ND	10	10	ug/L	104		SW846 8260B
	ND	10	10	ug/L	102	1.9	SW846 8260B
<b>Trichloroethene</b>	<b>1.6</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>98</b>		<b>SW846 8260B</b>
	<b>1.6</b>	<b>10</b>	<b>11</b>	<b>ug/L</b>	<b>99</b>	<b>0.05</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	ND	10	11	ug/L	114		SW846 8260B
	ND	10	11	ug/L	112	1.3	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	16	ug/L	163 a		SW846 8260B
	ND	10	16	ug/L	160 a	1.8	SW846 8260B
Vinyl chloride	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.9	ug/L	89	0.44	SW846 8260B
Xylenes (total)	ND	30	30	ug/L	100		SW846 8260B
	ND	30	30	ug/L	99	0.33	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	89	(61 - 128)
Toluene-d8	97	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	94	(74 - 116)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

# ***GCMS SEMIVOLATILE DATA***

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-269

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-009    Work Order #...: K9VHG1AC    Matrix.....: WG  
 Date Sampled...: 04/08/09 11:25    Date Received..: 04/09/09  
 Prep Date.....: 04/10/09    Analysis Date..: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1    Initial Wgt/Vol: 960 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-269

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-009    Work Order #...: K9VHG1AC    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-269

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-009    Work Order #...: K9VHG1AC    Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	60	(27 - 111)
2-Fluorobiphenyl	62	(28 - 110)
Terphenyl-d14	85	(37 - 119)
Phenol-d5	64	(10 - 110)
2-Fluorophenol	61	(10 - 110)
2,4,6-Tribromophenol	89	(22 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-270

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-010    Work Order #...: K9VHM1AC    Matrix.....: WG  
 Date Sampled...: 04/08/09 11:35    Date Received..: 04/09/09  
 Prep Date.....: 04/10/09    Analysis Date..: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1    Initial Wgt/Vol: 960 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-270

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-010    Work Order #...: K9VHM1AC    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-270

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-010    Work Order #...: K9VHM1AC    Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	56	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
Terphenyl-d14	83	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	58	(10 - 110)
2,4,6-Tribromophenol	83	(22 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-271

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-011    Work Order #...: K9VHT1AC    Matrix.....: WG  
 Date Sampled...: 04/08/09 13:55    Date Received...: 04/09/09  
 Prep Date.....: 04/10/09    Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 4    Initial Wgt/Vol: 980 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug/L	0.40
Acenaphthylene	ND	20	ug/L	0.40
Acetophenone	ND	20	ug/L	1.4
Anthracene	ND	20	ug/L	0.40
Atrazine	ND	20	ug/L	1.4
Benzo(a)anthracene	ND	4.0	ug/L	0.40
Benzo(a)pyrene	ND	8.0	ug/L	0.40
Benzo(b)fluoranthene	ND	8.0	ug/L	0.40
Benzo(ghi)perylene	ND	20	ug/L	0.40
Benzo(k)fluoranthene	ND	20	ug/L	0.40
Benzaldehyde	ND	40	ug/L	1.6
1,1'-Biphenyl	ND	40	ug/L	3.2
bis(2-Chloroethoxy) methane	ND	20	ug/L	1.3
bis(2-Chloroethyl)- ether	ND	16	ug/L	0.40
bis(2-Ethylhexyl) phthalate	ND	20	ug/L	3.2
4-Bromophenyl phenyl ether	ND	20	ug/L	3.2
Butyl benzyl phthalate	ND	20	ug/L	3.2
Caprolactam	ND	40	ug/L	3.2
Carbazole	ND	40	ug/L	1.1
4-Chloroaniline	ND	80	ug/L	3.2
4-Chloro-3-methylphenol	ND	20	ug/L	3.2
2-Chloronaphthalene	ND	20	ug/L	0.40
2-Chlorophenol	ND	20	ug/L	1.2
4-Chlorophenyl phenyl ether	ND	20	ug/L	1.2
Chrysene	ND	20	ug/L	0.40
Dibenz(a,h)anthracene	ND	8.0	ug/L	0.40
Dibenzofuran	ND	20	ug/L	0.40
3,3'-Dichlorobenzidine	ND	16	ug/L	1.5
2,4-Dichlorophenol	ND	40	ug/L	3.2
Diethyl phthalate	ND	20	ug/L	2.4
2,4-Dimethylphenol	ND	20	ug/L	3.2
Dimethyl phthalate	ND	20	ug/L	1.2
Di-n-butyl phthalate	ND	20	ug/L	2.7

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-271

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-011    Work Order #...: K9VHT1AC    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	80	ug/L	9.6
2,4-Dinitrophenol	ND	80	ug/L	9.6
2,4-Dinitrotoluene	ND	20	ug/L	1.1
2,6-Dinitrotoluene	ND	20	ug/L	3.2
Di-n-octyl phthalate	ND	20	ug/L	3.2
Fluoranthene	ND	20	ug/L	0.40
Fluorene	ND	20	ug/L	0.40
Hexachlorobenzene	ND	20	ug/L	0.40
Hexachlorobutadiene	ND	20	ug/L	1.1
Hexachlorocyclopenta- diene	ND	20	ug/L	3.2
Hexachloroethane	ND	20	ug/L	3.2
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/L	0.40
Isophorone	ND	20	ug/L	1.1
2-Methylnaphthalene	ND	20	ug/L	0.40
2-Methylphenol	ND	20	ug/L	3.2
4-Methylphenol	ND	20	ug/L	3.2
Naphthalene	ND	20	ug/L	0.40
2-Nitroaniline	ND	80	ug/L	3.2
3-Nitroaniline	ND	80	ug/L	1.1
4-Nitroaniline	ND	80	ug/L	3.2
Nitrobenzene	ND	16	ug/L	0.16
2-Nitrophenol	ND	20	ug/L	1.1
4-Nitrophenol	ND	80	ug/L	9.6
N-Nitrosodi-n-propyl- amine	ND	20	ug/L	3.2
N-Nitrosodiphenylamine	ND	20	ug/L	1.2
2,2'-oxybis (1-Chloropropane)	ND	20	ug/L	1.6
Pentachlorophenol	ND	80	ug/L	9.6
Phenanthrene	ND	20	ug/L	0.40
Phenol	ND	20	ug/L	2.4
Pyrene	ND	20	ug/L	0.40
2,4,5-Trichloro- phenol	ND	20	ug/L	1.2
2,4,6-Trichloro- phenol	ND	16	ug/L	3.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-271

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-011    Work Order #...: K9VHT1AC    Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	70 DIL	(27 - 111)
2-Fluorobiphenyl	72 DIL	(28 - 110)
Terphenyl-d14	90 DIL	(37 - 119)
Phenol-d5	79 DIL	(10 - 110)
2-Fluorophenol	72 DIL	(10 - 110)
2,4,6-Tribromophenol	89 DIL	(22 - 120)

**NOTE(S):**

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DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-272

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-012    Work Order #...: K9VHX1AC    Matrix.....: WG  
 Date Sampled...: 04/08/09 14:10    Date Received...: 04/09/09  
 Prep Date.....: 04/10/09    Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 4    Initial Wgt/Vol: 960 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug/L	0.40
Acenaphthylene	ND	20	ug/L	0.40
Acetophenone	ND	20	ug/L	1.4
Anthracene	ND	20	ug/L	0.40
Atrazine	ND	20	ug/L	1.4
Benzo(a)anthracene	ND	4.0	ug/L	0.40
Benzo(a)pyrene	ND	8.0	ug/L	0.40
Benzo(b)fluoranthene	ND	8.0	ug/L	0.40
Benzo(ghi)perylene	ND	20	ug/L	0.40
Benzo(k)fluoranthene	ND	20	ug/L	0.40
Benzaldehyde	ND	40	ug/L	1.6
1,1'-Biphenyl	ND	40	ug/L	3.2
bis(2-Chloroethoxy) methane	ND	20	ug/L	1.3
bis(2-Chloroethyl)- ether	ND	16	ug/L	0.40
bis(2-Ethylhexyl) phthalate	ND	20	ug/L	3.2
4-Bromophenyl phenyl ether	ND	20	ug/L	3.2
Butyl benzyl phthalate	ND	20	ug/L	3.2
Caprolactam	ND	40	ug/L	3.2
Carbazole	ND	40	ug/L	1.1
4-Chloroaniline	ND	80	ug/L	3.2
4-Chloro-3-methylphenol	ND	20	ug/L	3.2
2-Chloronaphthalene	ND	20	ug/L	0.40
2-Chlorophenol	ND	20	ug/L	1.2
4-Chlorophenyl phenyl ether	ND	20	ug/L	1.2
Chrysene	ND	20	ug/L	0.40
Dibenz(a,h)anthracene	ND	8.0	ug/L	0.40
Dibenzofuran	ND	20	ug/L	0.40
3,3'-Dichlorobenzidine	ND	16	ug/L	1.5
2,4-Dichlorophenol	ND	40	ug/L	3.2
Diethyl phthalate	ND	20	ug/L	2.4
2,4-Dimethylphenol	ND	20	ug/L	3.2
Dimethyl phthalate	ND	20	ug/L	1.2
Di-n-butyl phthalate	ND	20	ug/L	2.7

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-272

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-012    Work Order #...: K9VHX1AC    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	80	ug/L	9.6
2,4-Dinitrophenol	ND	80	ug/L	9.6
2,4-Dinitrotoluene	ND	20	ug/L	1.1
2,6-Dinitrotoluene	ND	20	ug/L	3.2
Di-n-octyl phthalate	ND	20	ug/L	3.2
<b>Fluoranthene</b>	<b>0.91 J</b>	<b>20</b>	<b>ug/L</b>	<b>0.40</b>
Fluorene	ND	20	ug/L	0.40
Hexachlorobenzene	ND	20	ug/L	0.40
Hexachlorobutadiene	ND	20	ug/L	1.1
Hexachlorocyclopenta- diene	ND	20	ug/L	3.2
Hexachloroethane	ND	20	ug/L	3.2
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/L	0.40
Isophorone	ND	20	ug/L	1.1
2-Methylnaphthalene	ND	20	ug/L	0.40
2-Methylphenol	ND	20	ug/L	3.2
4-Methylphenol	ND	20	ug/L	3.2
Naphthalene	ND	20	ug/L	0.40
2-Nitroaniline	ND	80	ug/L	3.2
3-Nitroaniline	ND	80	ug/L	1.1
4-Nitroaniline	ND	80	ug/L	3.2
Nitrobenzene	ND	16	ug/L	0.16
2-Nitrophenol	ND	20	ug/L	1.1
4-Nitrophenol	ND	80	ug/L	9.6
N-Nitrosodi-n-propyl- amine	ND	20	ug/L	3.2
N-Nitrosodiphenylamine	ND	20	ug/L	1.2
2,2'-oxybis (1-Chloropropane)	ND	20	ug/L	1.6
Pentachlorophenol	ND	80	ug/L	9.6
Phenanthrene	ND	20	ug/L	0.40
Phenol	ND	20	ug/L	2.4
Pyrene	ND	20	ug/L	0.40
2,4,5-Trichloro- phenol	ND	20	ug/L	1.2
2,4,6-Trichloro- phenol	ND	16	ug/L	3.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-272

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-012    Work Order #...: K9VHX1AC    Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	63 DIL	(27 - 111)
2-Fluorobiphenyl	62 DIL	(28 - 110)
Terphenyl-d14	86 DIL	(37 - 119)
Phenol-d5	68 DIL	(10 - 110)
2-Fluorophenol	65 DIL	(10 - 110)
2,4,6-Tribromophenol	85 DIL	(22 - 120)

**NOTE(S):**

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-273

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-013    Work Order #...: K9VH01AC    Matrix.....: WG  
 Date Sampled...: 04/08/09 15:20    Date Received..: 04/09/09  
 Prep Date.....: 04/10/09    Analysis Date..: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1    Initial Wgt/Vol: 1050 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
<b>bis(2-Ethylhexyl) phthalate</b>	<b>0.96 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.80</b>
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-273

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-013    Work Order #...: K9VH01AC    Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-040809-DR-273

GC/MS Semivolatiles

Lot-Sample #...: A9D090186-013    Work Order #...: K9VH01AC    Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	59	(28 - 110)
Terphenyl-d14	90	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	64	(10 - 110)
2,4,6-Tribromophenol	85	(22 - 120)

**NOTE(S):**

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J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156  
 MB Lot-Sample #: A9D100000-037

Work Order #...: K9WT31AA

Matrix.....: WATER

Analysis Date...: 04/13/09

Prep Date.....: 04/10/09

Final Wgt/Vol...: 2 mL

Dilution Factor: 1

Prep Batch #...: 9100037

Initial Wgt/Vol: 1000 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8270C
Acenaphthylene	ND	5.0	ug/L	SW846 8270C
Acetophenone	ND	5.0	ug/L	SW846 8270C
Anthracene	ND	5.0	ug/L	SW846 8270C
Atrazine	ND	5.0	ug/L	SW846 8270C
Benzo(a)anthracene	ND	1.0	ug/L	SW846 8270C
Benzo(a)pyrene	ND	2.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	2.0	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	5.0	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	5.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	5.0	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	20	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8270C
2-Chloronaphthalene	ND	5.0	ug/L	SW846 8270C
2-Chlorophenol	ND	5.0	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Chrysene	ND	5.0	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	2.0	ug/L	SW846 8270C
Dibenzofuran	ND	5.0	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	4.0	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	5.0	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8270C
Dimethyl phthalate	ND	5.0	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	5.0	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	20	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156

Work Order #...: K9WT31AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	5.0	ug/L	SW846 8270C
Fluoranthene	ND	5.0	ug/L	SW846 8270C
Fluorene	ND	5.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	5.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	5.0	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	5.0	ug/L	SW846 8270C
Hexachloroethane	ND	5.0	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	SW846 8270C
Isophorone	ND	5.0	ug/L	SW846 8270C
2-Methylnaphthalene	ND	5.0	ug/L	SW846 8270C
2-Methylphenol	ND	5.0	ug/L	SW846 8270C
4-Methylphenol	ND	5.0	ug/L	SW846 8270C
Naphthalene	ND	5.0	ug/L	SW846 8270C
2-Nitroaniline	ND	20	ug/L	SW846 8270C
3-Nitroaniline	ND	20	ug/L	SW846 8270C
4-Nitroaniline	ND	20	ug/L	SW846 8270C
Nitrobenzene	ND	4.0	ug/L	SW846 8270C
2-Nitrophenol	ND	5.0	ug/L	SW846 8270C
4-Nitrophenol	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	5.0	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	SW846 8270C
Pentachlorophenol	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	5.0	ug/L	SW846 8270C
Phenol	ND	5.0	ug/L	SW846 8270C
Pyrene	ND	5.0	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	5.0	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	4.0	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	69	(27 - 111)
2-Fluorobiphenyl	66	(28 - 110)
Terphenyl-d14	87	(37 - 119)
Phenol-d5	74	(10 - 110)
2-Fluorophenol	72	(10 - 110)
2,4,6-Tribromophenol	88	(22 - 120)

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**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** 9D08156

**Work Order #...:** K9WT31AA

**Matrix.....:** WATER

**NOTE(S):**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9WT31AC      Matrix.....: WATER  
 LCS Lot-Sample#: A9D100000-037  
 Prep Date.....: 04/10/09      Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1      Final Wgt/Vol...: 2 mL  
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
<b>Acenaphthene</b>	<b>20</b>	<b>15</b>	<b>ug/L</b>	<b>76</b>	<b>SW846 8270C</b>
Acenaphthylene	20	15	ug/L	73	SW846 8270C
Acetophenone	20	14	ug/L	72	SW846 8270C
Anthracene	20	15	ug/L	76	SW846 8270C
Atrazine	20	20	ug/L	100	SW846 8270C
Benzo(a)anthracene	20	16	ug/L	78	SW846 8270C
Benzo(a)pyrene	20	14	ug/L	72	SW846 8270C
Benzo(b)fluoranthene	20	16	ug/L	79	SW846 8270C
Benzo(ghi)perylene	20	15	ug/L	76	SW846 8270C
Benzo(k)fluoranthene	20	15	ug/L	75	SW846 8270C
Benzaldehyde	20	19	ug/L	95	SW846 8270C
1,1'-Biphenyl	20	16	ug/L	78	SW846 8270C
bis(2-Chloroethoxy) methane	20	16	ug/L	78	SW846 8270C
bis(2-Chloroethyl)- ether	20	16	ug/L	78	SW846 8270C
bis(2-Ethylhexyl) phthalate	20	16	ug/L	79	SW846 8270C
4-Bromophenyl phenyl ether	20	15	ug/L	77	SW846 8270C
Butyl benzyl phthalate	20	15	ug/L	75	SW846 8270C
Caprolactam	20	18	ug/L	92	SW846 8270C
Carbazole	20	15	ug/L	74	SW846 8270C
4-Chloroaniline	20	15	ug/L	76	SW846 8270C
<b>4-Chloro-3-methylphenol</b>	<b>20</b>	<b>16</b>	<b>ug/L</b>	<b>80</b>	<b>SW846 8270C</b>
2-Chloronaphthalene	20	14	ug/L	69	SW846 8270C
<b>2-Chlorophenol</b>	<b>20</b>	<b>15</b>	<b>ug/L</b>	<b>76</b>	<b>SW846 8270C</b>
4-Chlorophenyl phenyl ether	20	16	ug/L	80	SW846 8270C
Chrysene	20	15	ug/L	74	SW846 8270C
Dibenz(a,h)anthracene	20	16	ug/L	79	SW846 8270C
Dibenzofuran	20	16	ug/L	78	SW846 8270C
3,3'-Dichlorobenzidine	20	13	ug/L	63	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156  
 LCS Lot-Sample#: A9D100000-037

Work Order #...: K9WT31AC

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,4-Dichlorophenol	20	16	ug/L	82	SW846 8270C
Diethyl phthalate	20	16	ug/L	80	SW846 8270C
2,4-Dimethylphenol	20	12	ug/L	58	SW846 8270C
Dimethyl phthalate	20	16	ug/L	80	SW846 8270C
Di-n-butyl phthalate	20	15	ug/L	74	SW846 8270C
4,6-Dinitro- 2-methylphenol	20	12	ug/L	60	SW846 8270C
2,4-Dinitrophenol	20	8.5	ug/L	43	SW846 8270C
<b>2,4-Dinitrotoluene</b>	<b>20</b>	<b>17</b>	<b>ug/L</b>	<b>87</b>	<b>SW846 8270C</b>
2,6-Dinitrotoluene	20	16	ug/L	82	SW846 8270C
Di-n-octyl phthalate	20	16	ug/L	79	SW846 8270C
Fluoranthene	20	16	ug/L	78	SW846 8270C
Fluorene	20	15	ug/L	74	SW846 8270C
Hexachlorobenzene	20	15	ug/L	76	SW846 8270C
Hexachlorobutadiene	20	7.7	ug/L	38	SW846 8270C
Hexachlorocyclopenta- diene	20	2.7	ug/L	14	SW846 8270C
Hexachloroethane	20	6.8	ug/L	34	SW846 8270C
Indeno(1,2,3-cd)pyrene	20	15	ug/L	75	SW846 8270C
Isophorone	20	15	ug/L	77	SW846 8270C
2-Methylnaphthalene	20	17	ug/L	86	SW846 8270C
2-Methylphenol	20	14	ug/L	71	SW846 8270C
4-Methylphenol	40	27	ug/L	67	SW846 8270C
Naphthalene	20	13	ug/L	66	SW846 8270C
2-Nitroaniline	20	16	ug/L	78	SW846 8270C
3-Nitroaniline	20	17	ug/L	83	SW846 8270C
4-Nitroaniline	20	17	ug/L	83	SW846 8270C
Nitrobenzene	20	15	ug/L	74	SW846 8270C
2-Nitrophenol	20	16	ug/L	82	SW846 8270C
<b>4-Nitrophenol</b>	<b>20</b>	<b>14</b>	<b>ug/L</b>	<b>72</b>	<b>SW846 8270C</b>
<b>N-Nitrosodi-n-propyl- amine</b>	<b>20</b>	<b>15</b>	<b>ug/L</b>	<b>73</b>	<b>SW846 8270C</b>
N-Nitrosodiphenylamine	20	15	ug/L	76	SW846 8270C
bis(2-Chloroisopropyl) ether	20	14	ug/L	72	SW846 8270C
<b>Pentachlorophenol</b>	<b>20</b>	<b>14</b>	<b>ug/L</b>	<b>68</b>	<b>SW846 8270C</b>
Phenanthrene	20	15	ug/L	76	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9WT31AC      Matrix.....: WATER  
 LCS Lot-Sample#: A9D100000-037

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
<b>Phenol</b>	<b>20</b>	<b>14</b>	<b>ug/L</b>	<b>71</b>	<b>SW846 8270C</b>
<b>Pyrene</b>	<b>20</b>	<b>15</b>	<b>ug/L</b>	<b>74</b>	<b>SW846 8270C</b>
2,4,5-Trichloro-phenol	20	16	ug/L	79	SW846 8270C
2,4,6-Trichloro-phenol	20	16	ug/L	78	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	71	(27 - 111)
2-Fluorobiphenyl	69	(28 - 110)
Terphenyl-d14	87	(37 - 119)
Phenol-d5	76	(10 - 110)
2-Fluorophenol	76	(10 - 110)
2,4,6-Tribromophenol	87	(22 - 120)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156                      Work Order #...: K9WT31AC                      Matrix.....: WATER  
 LCS Lot-Sample#: A9D100000-037  
 Prep Date.....: 04/10/09                      Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1                              Final Wgt/Vol...: 2 mL  
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
<b>Acenaphthene</b>	<b>76</b>	<b>(40 - 110)</b>	<b>SW846 8270C</b>
Acenaphthylene	73	(43 - 110)	SW846 8270C
Acetophenone	72	(50 - 130)	SW846 8270C
Anthracene	76	(54 - 114)	SW846 8270C
Atrazine	100	(50 - 130)	SW846 8270C
Benzo(a)anthracene	78	(55 - 115)	SW846 8270C
Benzo(a)pyrene	72	(43 - 116)	SW846 8270C
Benzo(b)fluoranthene	79	(43 - 122)	SW846 8270C
Benzo(ghi)perylene	76	(45 - 120)	SW846 8270C
Benzo(k)fluoranthene	75	(43 - 124)	SW846 8270C
Benzaldehyde	95	(10 - 130)	SW846 8270C
1,1'-Biphenyl	78	(50 - 130)	SW846 8270C
bis(2-Chloroethoxy) methane	78	(39 - 110)	SW846 8270C
bis(2-Chloroethyl)- ether	78	(34 - 113)	SW846 8270C
bis(2-Ethylhexyl) phthalate	79	(36 - 163)	SW846 8270C
4-Bromophenyl phenyl ether	77	(51 - 114)	SW846 8270C
Butyl benzyl phthalate	75	(53 - 126)	SW846 8270C
Caprolactam	92	(50 - 130)	SW846 8270C
Carbazole	74	(53 - 120)	SW846 8270C
4-Chloroaniline	76	(10 - 110)	SW846 8270C
<b>4-Chloro-3-methylphenol</b>	<b>80</b>	<b>(39 - 110)</b>	<b>SW846 8270C</b>
2-Chloronaphthalene	69	(39 - 110)	SW846 8270C
<b>2-Chlorophenol</b>	<b>76</b>	<b>(27 - 110)</b>	<b>SW846 8270C</b>
4-Chlorophenyl phenyl ether	80	(50 - 115)	SW846 8270C
Chrysene	74	(55 - 115)	SW846 8270C
Dibenz(a,h)anthracene	79	(46 - 122)	SW846 8270C
Dibenzofuran	78	(46 - 111)	SW846 8270C
3,3'-Dichlorobenzidine	63	(19 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9WT31AC      Matrix.....: WATER  
 LCS Lot-Sample#: A9D100000-037

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
2,4-Dichlorophenol	82	(33 - 110)	SW846 8270C
Diethyl phthalate	80	(33 - 134)	SW846 8270C
2,4-Dimethylphenol	58	(12 - 110)	SW846 8270C
Dimethyl phthalate	80	(15 - 143)	SW846 8270C
Di-n-butyl phthalate	74	(55 - 122)	SW846 8270C
4,6-Dinitro- 2-methylphenol	60	(28 - 112)	SW846 8270C
2,4-Dinitrophenol	43	(17 - 112)	SW846 8270C
<b>2,4-Dinitrotoluene</b>	<b>87</b>	<b>(52 - 123)</b>	<b>SW846 8270C</b>
2,6-Dinitrotoluene	82	(52 - 119)	SW846 8270C
Di-n-octyl phthalate	79	(44 - 128)	SW846 8270C
Fluoranthene	78	(54 - 122)	SW846 8270C
Fluorene	74	(47 - 112)	SW846 8270C
Hexachlorobenzene	76	(51 - 112)	SW846 8270C
Hexachlorobutadiene	38	(13 - 110)	SW846 8270C
Hexachlorocyclopenta- diene	14	(10 - 110)	SW846 8270C
Hexachloroethane	34	(12 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	75	(46 - 121)	SW846 8270C
Isophorone	77	(44 - 128)	SW846 8270C
2-Methylnaphthalene	86	(35 - 110)	SW846 8270C
2-Methylphenol	71	(30 - 110)	SW846 8270C
4-Methylphenol	67	(32 - 110)	SW846 8270C
Naphthalene	66	(31 - 110)	SW846 8270C
2-Nitroaniline	78	(43 - 130)	SW846 8270C
3-Nitroaniline	83	(45 - 116)	SW846 8270C
4-Nitroaniline	83	(45 - 120)	SW846 8270C
Nitrobenzene	74	(37 - 115)	SW846 8270C
2-Nitrophenol	82	(29 - 110)	SW846 8270C
<b>4-Nitrophenol</b>	<b>72</b>	<b>(12 - 130)</b>	<b>SW846 8270C</b>
<b>N-Nitrosodi-n-propyl- amine</b>	<b>73</b>	<b>(37 - 121)</b>	<b>SW846 8270C</b>
N-Nitrosodiphenylamine	76	(53 - 113)	SW846 8270C
bis(2-Chloroisopropyl) ether	72	(25 - 128)	SW846 8270C
<b>Pentachlorophenol</b>	<b>68</b>	<b>(26 - 110)</b>	<b>SW846 8270C</b>
Phenanthrene	76	(52 - 114)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9WT31AC      Matrix.....: WATER  
 LCS Lot-Sample#: A9D100000-037

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
<b>Phenol</b>	<b>71</b>	<b>(14 - 112)</b>	<b>SW846 8270C</b>
<b>Pyrene</b>	<b>74</b>	<b>(55 - 120)</b>	<b>SW846 8270C</b>
2,4,5-Trichloro-phenol	79	(39 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	78	(35 - 110)	SW846 8270C

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	71	(27 - 111)
2-Fluorobiphenyl	69	(28 - 110)
Terphenyl-d14	87	(37 - 119)
Phenol-d5	76	(10 - 110)
2-Fluorophenol	76	(10 - 110)
2,4,6-Tribromophenol	87	(22 - 120)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156                      Work Order #...: K9VEP1AF-MS                      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002                      K9VEP1AG-MSD  
 Date Sampled...: 04/07/09 14:35                      Date Received...: 04/09/09  
 Prep Date.....: 04/10/09                      Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1                      Initial Wgt/Vol: 525 mL                      Final Wgt/Vol...: 2 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acenaphthene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	29	ug/L	76	1.7	SW846 8270C
Acenaphthylene	ND	38	28	ug/L	73		SW846 8270C
	ND	38	27	ug/L	72	1.1	SW846 8270C
Acetophenone	ND	38	28	ug/L	73		SW846 8270C
	ND	38	27	ug/L	70	4.2	SW846 8270C
Anthracene	ND	38	28	ug/L	74		SW846 8270C
	ND	38	28	ug/L	72	2.1	SW846 8270C
Atrazine	ND	38	38	ug/L	100		SW846 8270C
	ND	38	36	ug/L	95	5.1	SW846 8270C
Benzo(a)anthracene	ND	38	30	ug/L	78		SW846 8270C
	ND	38	29	ug/L	75	4.5	SW846 8270C
Benzo(a)pyrene	ND	38	26	ug/L	69		SW846 8270C
	ND	38	26	ug/L	67	2.5	SW846 8270C
Benzo(b)fluoranthene	ND	38	29	ug/L	76		SW846 8270C
	ND	38	28	ug/L	73	3.6	SW846 8270C
Benzo(ghi)perylene	ND	38	27	ug/L	71		SW846 8270C
	ND	38	28	ug/L	73	2.8	SW846 8270C
Benzo(k)fluoranthene	ND	38	29	ug/L	76		SW846 8270C
	ND	38	28	ug/L	74	2.8	SW846 8270C
Benzaldehyde	ND	38	36	ug/L	95		SW846 8270C
	ND	38	34	ug/L	89	6.4	SW846 8270C
1,1'-Biphenyl	ND	38	30	ug/L	78		SW846 8270C
	ND	38	29	ug/L	77	0.78	SW846 8270C
bis(2-Chloroethoxy) methane	ND	38	30	ug/L	80		SW846 8270C
	ND	38	29	ug/L	76	5.2	SW846 8270C
bis(2-Chloroethyl)- ether	ND	38	30	ug/L	79		SW846 8270C
	ND	38	26	ug/L	69	14	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	38	31	ug/L	80		SW846 8270C
	ND	38	30	ug/L	77	4.5	SW846 8270C
4-Bromophenyl phenyl ether	ND	38	30	ug/L	78		SW846 8270C
	ND	38	29	ug/L	75	4.3	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Butyl benzyl phthalate	ND	38	31	ug/L	80		SW846 8270C
	ND	38	29	ug/L	77	3.8	SW846 8270C
Caprolactam	ND	38	35	ug/L	91		SW846 8270C
	ND	38	35	ug/L	92	1.1	SW846 8270C
Carbazole	ND	38	30	ug/L	78		SW846 8270C
	ND	38	29	ug/L	77	1.1	SW846 8270C
4-Chloroaniline	ND	38	22	ug/L	57		SW846 8270C
	ND	38	22	ug/L	57	0.33	SW846 8270C
<b>4-Chloro-3-methylphenol</b>	<b>ND</b>	<b>38</b>	<b>31</b>	<b>ug/L</b>	<b>82</b>		<b>SW846 8270C</b>
	<b>ND</b>	<b>38</b>	<b>30</b>	<b>ug/L</b>	<b>79</b>	<b>3.6</b>	<b>SW846 8270C</b>
	ND	38	26	ug/L	69		SW846 8270C
2-Chloronaphthalene	ND	38	26	ug/L	69		SW846 8270C
	ND	38	26	ug/L	69	0.56	SW846 8270C
<b>2-Chlorophenol</b>	<b>ND</b>	<b>38</b>	<b>30</b>	<b>ug/L</b>	<b>79</b>		<b>SW846 8270C</b>
	<b>ND</b>	<b>38</b>	<b>29</b>	<b>ug/L</b>	<b>75</b>	<b>4.9</b>	<b>SW846 8270C</b>
	ND	38	30	ug/L	80		SW846 8270C
4-Chlorophenyl phenyl ether	ND	38	30	ug/L	80		SW846 8270C
	ND	38	29	ug/L	76	4.7	SW846 8270C
Chrysene	ND	38	27	ug/L	72		SW846 8270C
	ND	38	27	ug/L	71	0.58	SW846 8270C
Dibenz(a,h)anthracene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	29	ug/L	77	0.19	SW846 8270C
Dibenzofuran	ND	38	30	ug/L	78		SW846 8270C
	ND	38	29	ug/L	77	1.3	SW846 8270C
3,3'-Dichlorobenzidine	ND	38	2.2	ug/L	5.8	a	SW846 8270C
	ND	38	0.0	ug/L	0.0	200	SW846 8270C
Qualifiers: a,p							
2,4-Dichlorophenol	ND	38	31	ug/L	82		SW846 8270C
	ND	38	31	ug/L	81	0.94	SW846 8270C
Diethyl phthalate	ND	38	32	ug/L	84		SW846 8270C
	ND	38	30	ug/L	80	5.2	SW846 8270C
2,4-Dimethylphenol	ND	38	27	ug/L	71		SW846 8270C
	ND	38	26	ug/L	69	2.3	SW846 8270C
Dimethyl phthalate	ND	38	31	ug/L	83		SW846 8270C
	ND	38	31	ug/L	80	2.7	SW846 8270C
Di-n-butyl phthalate	2.1	38	31	ug/L	75		SW846 8270C
	2.1	38	29	ug/L	71	5.1	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	38	15	ug/L	39		SW846 8270C
	ND	38	17	ug/L	45	12	SW846 8270C
2,4-Dinitrophenol	ND	38	8.4	ug/L	22		SW846 8270C
	ND	38	12	ug/L	31	p 35	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	ND	38	32	ug/L	84		SW846 8270C
	ND	38	32	ug/L	84	0.69	SW846 8270C
2,6-Dinitrotoluene	ND	38	30	ug/L	80		SW846 8270C
	ND	38	30	ug/L	80	0.14	SW846 8270C
Di-n-octyl phthalate	ND	38	31	ug/L	83		SW846 8270C
	ND	38	29	ug/L	76	8.4	SW846 8270C
Fluoranthene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	28	ug/L	74	3.9	SW846 8270C
Fluorene	ND	38	29	ug/L	75		SW846 8270C
	ND	38	28	ug/L	75	0.13	SW846 8270C
Hexachlorobenzene	ND	38	29	ug/L	76		SW846 8270C
	ND	38	28	ug/L	73	4.0	SW846 8270C
Hexachlorobutadiene	ND	38	17	ug/L	45		SW846 8270C
	ND	38	19	ug/L	51	13	SW846 8270C
Hexachlorocyclopenta- diene	ND	38	4.7	ug/L	12		SW846 8270C
	ND	38	6.2	ug/L	16	26	SW846 8270C
Hexachloroethane	ND	38	16	ug/L	41		SW846 8270C
	ND	38	18	ug/L	48	15	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	38	28	ug/L	72		SW846 8270C
	ND	38	27	ug/L	72	0.57	SW846 8270C
Isophorone	ND	38	30	ug/L	79		SW846 8270C
	ND	38	29	ug/L	75	5.1	SW846 8270C
2-Methylnaphthalene	ND	38	34	ug/L	90		SW846 8270C
	ND	38	34	ug/L	88	2.4	SW846 8270C
2-Methylphenol	ND	38	28	ug/L	73		SW846 8270C
	ND	38	27	ug/L	71	2.3	SW846 8270C
4-Methylphenol	ND	76	52	ug/L	68		SW846 8270C
	ND	76	50	ug/L	66	3.7	SW846 8270C
Naphthalene	ND	38	26	ug/L	69		SW846 8270C
	ND	38	26	ug/L	69	0.37	SW846 8270C
2-Nitroaniline	ND	38	30	ug/L	79		SW846 8270C
	ND	38	30	ug/L	80	0.79	SW846 8270C
3-Nitroaniline	ND	38	27	ug/L	72		SW846 8270C
	ND	38	26	ug/L	68	4.9	SW846 8270C
4-Nitroaniline	ND	38	32	ug/L	83		SW846 8270C
	ND	38	30	ug/L	80	3.9	SW846 8270C
Nitrobenzene	ND	38	29	ug/L	75		SW846 8270C
	ND	38	29	ug/L	75	0.48	SW846 8270C
2-Nitrophenol	ND	38	29	ug/L	77		SW846 8270C
	ND	38	29	ug/L	76	1.3	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Nitrophenol	ND	38	24	ug/L	63		SW846 8270C
	ND	38	26	ug/L	68	7.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	38	29	ug/L	77		SW846 8270C
	ND	38	27	ug/L	72	6.9	SW846 8270C
N-Nitrosodiphenylamine	ND	38	29	ug/L	77		SW846 8270C
	ND	38	28	ug/L	74	4.0	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	38	29	ug/L	75		SW846 8270C
	ND	38	27	ug/L	70	6.4	SW846 8270C
Pentachlorophenol	ND	38	24	ug/L	62		SW846 8270C
	ND	38	26	ug/L	68	10	SW846 8270C
Phenanthrene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	29	ug/L	75	1.8	SW846 8270C
Phenol	ND	38	27	ug/L	72		SW846 8270C
	ND	38	28	ug/L	73	2.1	SW846 8270C
Pyrene	ND	38	29	ug/L	76		SW846 8270C
	ND	38	29	ug/L	76	0.09	SW846 8270C
2,4,5-Trichloro-phenol	ND	38	31	ug/L	82		SW846 8270C
	ND	38	30	ug/L	80	2.0	SW846 8270C
2,4,6-Trichloro-phenol	ND	38	29	ug/L	77		SW846 8270C
	ND	38	29	ug/L	77	0.19	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	73	(27 - 111)
	71	(27 - 111)
2-Fluorobiphenyl	70	(28 - 110)
	69	(28 - 110)
Terphenyl-d14	87	(37 - 119)
	83	(37 - 119)
Phenol-d5	77	(10 - 110)
	75	(10 - 110)
2-Fluorophenol	78	(10 - 110)
	76	(10 - 110)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4,6-Tribromophenol	89	(22 - 120)
	85	(22 - 120)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156                      Work Order #...: K9VEP1AF-MS                      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002                      K9VEP1AG-MSD  
 Date Sampled...: 04/07/09 14:35                      Date Received...: 04/09/09  
 Prep Date.....: 04/10/09                      Analysis Date...: 04/13/09  
 Prep Batch #...: 9100037  
 Dilution Factor: 1                      Initial Wgt/Vol: 525 mL                      Final Wgt/Vol...: 2 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	77	(36 - 110)			SW846 8270C
	76	(36 - 110)	1.7	(0-30)	SW846 8270C
Acenaphthylene	73	(39 - 110)			SW846 8270C
	72	(39 - 110)	1.1	(0-30)	SW846 8270C
Acetophenone	73	(50 - 130)			SW846 8270C
	70	(50 - 130)	4.2	(0-30)	SW846 8270C
Anthracene	74	(46 - 110)			SW846 8270C
	72	(46 - 110)	2.1	(0-30)	SW846 8270C
Atrazine	100	(50 - 130)			SW846 8270C
	95	(50 - 130)	5.1	(0-30)	SW846 8270C
Benzo(a)anthracene	78	(52 - 110)			SW846 8270C
	75	(52 - 110)	4.5	(0-30)	SW846 8270C
Benzo(a)pyrene	69	(33 - 110)			SW846 8270C
	67	(33 - 110)	2.5	(0-30)	SW846 8270C
Benzo(b)fluoranthene	76	(33 - 114)			SW846 8270C
	73	(33 - 114)	3.6	(0-30)	SW846 8270C
Benzo(ghi)perylene	71	(34 - 116)			SW846 8270C
	73	(34 - 116)	2.8	(0-30)	SW846 8270C
Benzo(k)fluoranthene	76	(32 - 121)			SW846 8270C
	74	(32 - 121)	2.8	(0-30)	SW846 8270C
Benzaldehyde	95	(10 - 130)			SW846 8270C
	89	(10 - 130)	6.4	(0-30)	SW846 8270C
1,1'-Biphenyl	78	(50 - 130)			SW846 8270C
	77	(50 - 130)	0.78	(0-30)	SW846 8270C
bis(2-Chloroethoxy) methane	80	(35 - 110)			SW846 8270C
	76	(35 - 110)	5.2	(0-30)	SW846 8270C
bis(2-Chloroethyl)- ether	79	(27 - 110)			SW846 8270C
	69	(27 - 110)	14	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	80	(40 - 140)			SW846 8270C
	77	(40 - 140)	4.5	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	78	(42 - 113)			SW846 8270C
	75	(42 - 113)	4.3	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Butyl benzyl phthalate	80	(51 - 121)			SW846 8270C
	77	(51 - 121)	3.8	(0-30)	SW846 8270C
Caprolactam	91	(50 - 130)			SW846 8270C
	92	(50 - 130)	1.1	(0-30)	SW846 8270C
Carbazole	78	(49 - 114)			SW846 8270C
	77	(49 - 114)	1.1	(0-30)	SW846 8270C
4-Chloroaniline	57	(10 - 110)			SW846 8270C
	57	(10 - 110)	0.33	(0-30)	SW846 8270C
<b>4-Chloro-3-methylphenol</b>	<b>82</b>	<b>(33 - 110)</b>			<b>SW846 8270C</b>
	<b>79</b>	<b>(33 - 110)</b>	<b>3.6</b>	<b>(0-30)</b>	<b>SW846 8270C</b>
2-Chloronaphthalene	69	(34 - 110)			SW846 8270C
	69	(34 - 110)	0.56	(0-30)	SW846 8270C
<b>2-Chlorophenol</b>	<b>79</b>	<b>(26 - 110)</b>			<b>SW846 8270C</b>
	<b>75</b>	<b>(26 - 110)</b>	<b>4.9</b>	<b>(0-30)</b>	<b>SW846 8270C</b>
4-Chlorophenyl phenyl ether	80	(43 - 113)			SW846 8270C
	76	(43 - 113)	4.7	(0-30)	SW846 8270C
Chrysene	72	(52 - 111)			SW846 8270C
	71	(52 - 111)	0.58	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	77	(35 - 118)			SW846 8270C
	77	(35 - 118)	0.19	(0-30)	SW846 8270C
Dibenzofuran	78	(41 - 110)			SW846 8270C
	77	(41 - 110)	1.3	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	5.8 a	(10 - 110)			SW846 8270C
	0.0 a,p	(10 - 110)	200	(0-30)	SW846 8270C
2,4-Dichlorophenol	82	(30 - 110)			SW846 8270C
	81	(30 - 110)	0.94	(0-30)	SW846 8270C
Diethyl phthalate	84	(33 - 130)			SW846 8270C
	80	(33 - 130)	5.2	(0-30)	SW846 8270C
2,4-Dimethylphenol	71	(11 - 110)			SW846 8270C
	69	(11 - 110)	2.3	(0-30)	SW846 8270C
Dimethyl phthalate	83	(36 - 124)			SW846 8270C
	80	(36 - 124)	2.7	(0-30)	SW846 8270C
Di-n-butyl phthalate	75	(50 - 117)			SW846 8270C
	71	(50 - 117)	5.1	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	39	(25 - 110)			SW846 8270C
	45	(25 - 110)	12	(0-30)	SW846 8270C
2,4-Dinitrophenol	22	(11 - 119)			SW846 8270C
	31 p	(11 - 119)	35	(0-30)	SW846 8270C

(Continued on next page)

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Semivolatiles**

**Client Lot #...**: 9D08156      **Work Order #...**: K9VEP1AF-MS      **Matrix.....**: WATER  
**MS Lot-Sample #:** A9D090181-002      K9VEP1AG-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
<b>2,4-Dinitrotoluene</b>	<b>84</b>	<b>(46 - 119)</b>			<b>SW846 8270C</b>
	<b>84</b>	<b>(46 - 119)</b>	<b>0.69</b>	<b>(0-30)</b>	<b>SW846 8270C</b>
2,6-Dinitrotoluene	80	(48 - 115)			SW846 8270C
	80	(48 - 115)	0.14	(0-30)	SW846 8270C
Di-n-octyl phthalate	83	(36 - 124)			SW846 8270C
	76	(36 - 124)	8.4	(0-30)	SW846 8270C
Fluoranthene	77	(53 - 111)			SW846 8270C
	74	(53 - 111)	3.9	(0-30)	SW846 8270C
Fluorene	75	(43 - 110)			SW846 8270C
	75	(43 - 110)	0.13	(0-30)	SW846 8270C
Hexachlorobenzene	76	(40 - 113)			SW846 8270C
	73	(40 - 113)	4.0	(0-30)	SW846 8270C
Hexachlorobutadiene	45	(14 - 110)			SW846 8270C
	51	(14 - 110)	13	(0-30)	SW846 8270C
Hexachlorocyclopentadiene	12	(10 - 110)			SW846 8270C
	16	(10 - 110)	26	(0-30)	SW846 8270C
Hexachloroethane	41	(10 - 110)			SW846 8270C
	48	(10 - 110)	15	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	72	(36 - 116)			SW846 8270C
	72	(36 - 116)	0.57	(0-30)	SW846 8270C
Isophorone	79	(34 - 125)			SW846 8270C
	75	(34 - 125)	5.1	(0-30)	SW846 8270C
2-Methylnaphthalene	90	(35 - 110)			SW846 8270C
	88	(35 - 110)	2.4	(0-30)	SW846 8270C
2-Methylphenol	73	(26 - 110)			SW846 8270C
	71	(26 - 110)	2.3	(0-30)	SW846 8270C
4-Methylphenol	68	(25 - 110)			SW846 8270C
	66	(25 - 110)	3.7	(0-30)	SW846 8270C
Naphthalene	69	(32 - 110)			SW846 8270C
	69	(32 - 110)	0.37	(0-30)	SW846 8270C
2-Nitroaniline	79	(31 - 129)			SW846 8270C
	80	(31 - 129)	0.79	(0-30)	SW846 8270C
3-Nitroaniline	72	(23 - 112)			SW846 8270C
	68	(23 - 112)	4.9	(0-30)	SW846 8270C
4-Nitroaniline	83	(26 - 115)			SW846 8270C
	80	(26 - 115)	3.9	(0-30)	SW846 8270C
Nitrobenzene	75	(26 - 118)			SW846 8270C
	75	(26 - 118)	0.48	(0-30)	SW846 8270C
2-Nitrophenol	77	(30 - 110)			SW846 8270C
	76	(30 - 110)	1.3	(0-30)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
 MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
4-Nitrophenol	63	(13 - 127)			SW846 8270C
	68	(13 - 127)	7.6	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl-amine	77	(25 - 119)			SW846 8270C
	72	(25 - 119)	6.9	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	77	(28 - 118)			SW846 8270C
	74	(28 - 118)	4.0	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	75	(13 - 124)			SW846 8270C
	70	(13 - 124)	6.4	(0-30)	SW846 8270C
Pentachlorophenol	62	(23 - 110)			SW846 8270C
	68	(23 - 110)	10	(0-30)	SW846 8270C
Phenanthrene	77	(47 - 110)			SW846 8270C
	75	(47 - 110)	1.8	(0-30)	SW846 8270C
Phenol	72	(16 - 110)			SW846 8270C
	73	(16 - 110)	2.1	(0-30)	SW846 8270C
Pyrene	76	(54 - 115)			SW846 8270C
	76	(54 - 115)	0.09	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	82	(36 - 110)			SW846 8270C
	80	(36 - 110)	2.0	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	77	(34 - 110)			SW846 8270C
	77	(34 - 110)	0.19	(0-30)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	73	(27 - 111)
	71	(27 - 111)
2-Fluorobiphenyl	70	(28 - 110)
	69	(28 - 110)
Terphenyl-d14	87	(37 - 119)
	83	(37 - 119)
Phenol-d5	77	(10 - 110)
	75	(10 - 110)
2-Fluorophenol	78	(10 - 110)
	76	(10 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9D08156      Work Order #...: K9VEP1AF-MS      Matrix.....: WATER  
MS Lot-Sample #: A9D090181-002      K9VEP1AG-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	89	(22 - 120)
	85	(22 - 120)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

***END OF REPORT***

ATTACHMENT B  
DATA VALIDATION MEMORANDUM



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## MEMORANDUM

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TO: Jennifer Quigley  
FROM: Cindy Zadorozny/tl/1/Det  
RE: Data Quality Assessment and Full Validation  
Monitoring Well and Culvert Sampling – April 2009  
General Motors Grand Rapids MFD – Wyoming, Michigan

REF. NO.: 17360  
DATE: May 15, 2009  
SSOW NO: 017307-030020

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The following details a quality assessment and validation of the analytical data resulting from the April 6 to April 8, 2009, collection of 37 groundwater, three (3) surface water samples, and six (6) quality control samples from the General Motors Grand Rapids MFD Site in Wyoming, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica in North Canton, Ohio (TA) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999. This guideline is referred to as "NFGs" in this Memorandum.

### Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

### Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in Table 2.

The samples were prepared and/or analyzed within the specified holding time periods.

The samples were shipped and maintained in accordance with the sample preservation requirements.

## Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) – Organic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) analyses was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the NFGs before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

### Initial Calibration – Organic Analyses

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A minimum of a five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

- i. GC/MS (all compounds) – must meet a minimum mean relative response factor (RRF) of 0.05 ;
- ii. GC/MS (all compounds) – the percent relative standard deviation (RSD) values must not exceed 30.0 percent or a minimum coefficient of determination of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for linearity and sensitivity.

### Continuing Calibration – Organic Analyses

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours for GC/MS analyses. The following criteria are employed to evaluate the continuing calibration data:

- i. GC/MS (all compounds) – must meet a minimum mean RRF of 0.05 ;
- ii. GC/MS (all compounds) – the percent difference between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent; and
- iii. GC/MS (compounds determined by quadratic curve) – the percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response and sensitivity with the exception of the qualified samples presented in Table 3.

### Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

The method blank samples did not contain target compounds with concentrations that impacted the investigative samples.

### Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

The VOC surrogate recoveries could not be measured or evaluated in a sample due to the dilution required to successfully analyze the sample. No qualification of this sample was required. The surrogate recovery acceptance criteria were met for all samples that could be evaluated.

### Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The samples selected for MS/MSD analysis are identified in Table 1.

In some sample batches, non-Site-specific samples were utilized as MS/MSDs. Qualification of samples associated with these MS/MSDs was not performed. The samples that should be qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 4.

### Laboratory Control Sample/Laboratory Control Duplicate Analyses

The laboratory control sample and laboratory control duplicate (LCS/LCD) analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits.

The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved with the exception of the qualified samples presented in Table 5.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed.

The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Internal Standard Summaries – Organic Analyses

To correct for variability in the GC/MS response and sensitivity, internal standard (IS) compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC and SVOC analyses were monitored using IS peak area and retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

- i. IS area counts must not vary by more than a factor of two (-50 percent to +100 percent ) from the associated continuing calibration standard IS area counts; and
- ii. The RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC and SVOC internal standard data showed that the IS area counts and retention time data were within the acceptance criteria.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of four (4) field duplicate sample sets and two (2) trip blank samples.

Field Duplicate Samples

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value.

The data indicates that an adequate level of precision was achieved for the sampling event.

Field Quality Assurance/Quality Control (continued)Trip Blank Samples

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

No target analytes were reported as detected in the trip blank samples.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY  
MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

Sample Identification	Location	Matrix	QC Samples	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters
<b>CRA SDG No.: 20-1</b>	<b>TA-NC Lot No.: A9D080156</b>			<b>TA-NC SDG No.: 9D08156</b>		
GW-17360-040609-DR-230	88-2	water		4/6/2009	13:30	TCL VOC, TCL SVOC
GW-17360-040609-DR-231	88-2	water	DUP (230)	4/6/2009	13:35	TCL VOC, TCL SVOC
GW-17360-040609-DR-232	88-3	water		4/6/2009	14:10	TCL VOC, TCL SVOC
GW-17360-040609-DR-233	88-4	water		4/6/2009	14:55	TCL VOC, TCL SVOC
GW-17360-040609-DR-234	MW17-06	water		4/6/2009	15:40	TCL VOC, TCL SVOC
WS-17360-040609-DR-235	C-1	water		4/6/2009	12:40	TCL VOC, TCL SVOC
WS-17360-040609-DR-236	C-2	water		4/6/2009	12:50	TCL VOC, TCL SVOC
WS-17360-040609-DR-237	C-3	water		4/6/2009	13:00	TCL VOC, TCL SVOC
GW-17360-040609-DR-238	85-2	water	MS/MSD	4/6/2009	16:16	TCL VOC, TCL SVOC
GW-17360-040609-DR-239	MW15-04	water		4/6/2009	15:45	TCL VOC, TCL SVOC
GW-17360-040609-DR-240	85-7	water		4/6/2009	15:40	TCL VOC, TCL SVOC
GW-17360-040709-DR-241	87-13	water		4/7/2009	08:20	TCL VOC, TCL SVOC
GW-17360-040709-DR-242	MW6-03	water		4/7/2009	08:50	TCL VOC, TCL SVOC
GW-17360-040709-DR-243	87-11	water		4/7/2009	09:35	TCL VOC, TCL SVOC
GW-17360-040709-DR-244	MW8-04	water		4/7/2009	08:35	TCL VOC, TCL SVOC
GW-17360-040709-DR-245	MW5-03	water		4/7/2009	09:00	TCL VOC, TCL SVOC
GW-17360-040709-DR-246	87-10	water		4/7/2009	09:40	TCL VOC, TCL SVOC
GW-17360-040709-DR-247	MW9-04	water		4/7/2009	10:25	TCL VOC, TCL SVOC
GW-17360-040709-DR-248	MW9-04	water		4/7/2009	10:30	TCL VOC, TCL SVOC
GW-17360-040709-DR-249	MW4-03	water	DUP (247)	4/7/2009	10:35	TCL VOC, TCL SVOC
GW-17360-040709-DR-250	MW10-04	water		4/7/2009	11:15	TCL VOC, TCL SVOC
GW-17360-040709-DR-251	MW11S-05	water		4/7/2009	12:00	TCL VOC, TCL SVOC
GW-17360-040709-DR-252	MW11D-04	water		4/7/2009	12:05	TCL VOC, TCL SVOC
GW-17360-040709-DR-253	87-9	water		4/7/2009	14:15	TCL VOC, TCL SVOC
GW-17360-040709-DR-254	MW7-03	water		4/7/2009	14:05	TCL VOC, TCL SVOC
GW-17360-040709-DR-255	86-3	water		4/7/2009	14:35	TCL VOC, TCL SVOC
GW-17360-040709-DR-256	87-8	water		4/7/2009	15:10	TCL VOC, TCL SVOC
GW-17360-040709-DR-257	85-1	water		4/7/2009	15:25	TCL VOC, TCL SVOC
GW-17360-040709-DR-258	MW3-03	water		4/7/2009	16:00	TCL VOC, TCL SVOC
GW-17360-040709-DR-259	MW1-03	water	MS/MSD	4/7/2009	15:45	TCL VOC, TCL SVOC
TB-17360-040709-DR-260	-	water	Trip Blank	4/7/2009	16:15	TCL VOC, TCL SVOC

TABLE 1

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MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

Sample Identification	Location	Matrix	QC Samples	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters
<b>CRA SDG No.: 20-2 (1)</b>	<b>TA-NC Lot No.: A9D090186</b>	<b>TA-NC SDG No.: 9D08156</b>				
GW-17360-040809-DR-261	MW14-04	water	MS/MSD	4/8/2009	08:35	TCL VOC, TCL SVOC
GW-17360-040809-DR-262	87-4	water		4/8/2009	08:55	TCL VOC, TCL SVOC
GW-17360-040809-DR-263	87-5	water		4/8/2009	09:15	TCL VOC, TCL SVOC
GW-17360-040809-DR-264	86-2	water		4/8/2009	09:50	TCL VOC, TCL SVOC
GW-17360-040809-DR-265	87-2	water		4/8/2009	09:45	TCL VOC, TCL SVOC
GW-17360-040809-DR-266	87-1	water		4/8/2009	10:25	TCL VOC, TCL SVOC
GW-17360-040809-DR-267	87-1	water	DUP (266)	4/8/2009	10:30	TCL VOC, TCL SVOC
GW-17360-040809-DR-268	MW13-04	water		4/8/2009	11:20	TCL VOC, TCL SVOC
GW-17360-040809-DR-269	86-1	water		4/8/2009	11:25	TCL VOC, TCL SVOC
GW-17360-040809-DR-270	86-1	water	DUP (269)	4/8/2009	11:35	TCL VOC, TCL SVOC
GW-17360-040809-DR-271	85-3	water		4/8/2009	13:55	TCL VOC, TCL SVOC
GW-17360-040809-DR-272	85-5B	water		4/8/2009	14:10	TCL VOC, TCL SVOC
GW-17360-040809-DR-273	85-6	water		4/8/2009	15:20	TCL VOC, TCL SVOC
GW-17360-040809-DR-274	MW2-03	water		4/8/2009	15:15	TCL VOC, TCL SVOC
TB-17360-040809-DR-275	-	water	Trip Blank	4/8/2009	15:30	TCL VOC, TCL SVOC

**Notes:**

- (1) - Additional review per Tier 3 requirements
- Dup - Duplicate
- MS/MSD - Matrix Spik / Matrix Spike Duplicate
- QC - Quality Control
- SVOC - Semivolatile Organic Compounds
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES  
 MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
 GENERAL MOTORS GRAND RAPIDS MFD  
 WYOMING, MICHIGAN

<i>Parameter</i>	<i>Method</i> <sup>1</sup>	<i>Matrix</i>	<i>Holding Time</i>	<i>Preservation</i>
TCL VOC	SW-846 8260	Water	- 14 days from sample collection to completion of analysis.	pH < 2 and Iced, 4 ± 2° C
TCL SVOC	SW-846 8270C	Water	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis	Iced, 4 ± 2° C

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*Notes*

<sup>1</sup> Method References:  
 SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, and Promulgated updates, November 1986

TABLE 3

**QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS  
MONITORING WELL AND CULTVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>% Recovery or %D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Bromomethane	4/13/2009	---	38.7	GW-17360-040609-DR-230	1.0 UJ	µg/L
					GW-17360-040609-DR-231	1.0 UJ	µg/L
					GW-17360-040609-DR-232	1.0 UJ	µg/L
					GW-17360-040609-DR-233	1.0 UJ	µg/L
					WS-17360-040609-DR-235	1.0 UJ	µg/L
					WS-17360-040609-DR-236	1.0 UJ	µg/L
					WS-17360-040609-DR-237	1.0 UJ	µg/L
					GW-17360-040609-DR-238	1.0 UJ	µg/L
					GW-17360-040609-DR-239	1.0 UJ	µg/L
					GW-17360-040609-DR-240	1.0 UJ	µg/L
					GW-17360-040709-DR-241	1.0 UJ	µg/L
					GW-17360-040709-DR-242	1.0 UJ	µg/L
					GW-17360-040709-DR-243	1.7 UJ	µg/L
					GW-17360-040709-DR-244	1.0 UJ	µg/L
					GW-17360-040709-DR-245	1.0 UJ	µg/L
					GW-17360-040709-DR-246	1.0 UJ	µg/L
					GW-17360-040709-DR-247	1.0 UJ	µg/L
GW-17360-040709-DR-248	1.0 UJ	µg/L					
GW-17360-040709-DR-249	1.0 UJ	µg/L					
GW-17360-040709-DR-250	1.0 UJ	µg/L					
TCL VOC	Chloromethane	4/15/2009	---	32.6	GW-17360-040709-DR-251	1.0 UJ	µg/L
					GW-17360-040709-DR-252	1.0 UJ	µg/L
					GW-17360-040709-DR-253	1.0 UJ	µg/L
					GW-17360-040709-DR-254	1.0 UJ	µg/L
					GW-17360-040709-DR-255	1.0 UJ	µg/L
					GW-17360-040709-DR-256	1.0 UJ	µg/L
					GW-17360-040709-DR-257	1.0 UJ	µg/L
					GW-17360-040709-DR-258	1.0 UJ	µg/L
					GW-17360-040709-DR-259	11 UJ	µg/L
					GW-17360-040609-DR-234	1.0 UJ	µg/L
TB-17360-040709-DR-260	1.0 UJ	µg/L					

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MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>% Recovery or %D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Bromomethane	4/15/2009	---	46.8	GW-17360-040709-DR-251	1.0 UJ	µg/L
					GW-17360-040709-DR-252	1.0 UJ	µg/L
					GW-17360-040709-DR-253	1.0 UJ	µg/L
					GW-17360-040709-DR-254	1.0 UJ	µg/L
					GW-17360-040709-DR-255	1.0 UJ	µg/L
					GW-17360-040709-DR-256	1.0 UJ	µg/L
					GW-17360-040709-DR-257	1.0 UJ	µg/L
					GW-17360-040709-DR-258	1.0 UJ	µg/L
					GW-17360-040709-DR-259	11 UJ	µg/L
					GW-17360-040609-DR-234	1.0 UJ	µg/L
					TB-17360-040709-DR-260	1.0 UJ	µg/L
TCL VOC	Trichlorofluoromethane	4/15/2009	---	26.5	GW-17360-040709-DR-251	1.0 UJ	µg/L
					GW-17360-040709-DR-252	1.0 UJ	µg/L
					GW-17360-040709-DR-253	1.0 UJ	µg/L
					GW-17360-040709-DR-254	1.0 UJ	µg/L
					GW-17360-040709-DR-255	1.0 UJ	µg/L
					GW-17360-040709-DR-256	1.0 UJ	µg/L
					GW-17360-040709-DR-257	1.0 UJ	µg/L
					GW-17360-040709-DR-258	1.0 UJ	µg/L
					GW-17360-040709-DR-259	11 UJ	µg/L
					GW-17360-040609-DR-234	1.0 UJ	µg/L
					TB-17360-040709-DR-260	1.0 UJ	µg/L
TCL VOC	Dichlorodifluoromethane	4/16/2009	---	39.6	GW-17360-040809-DR-261	1.0 UJ	µg/L
					GW-17360-040809-DR-262	1.0 UJ	µg/L
					GW-17360-040809-DR-263	1.0 UJ	µg/L
					GW-17360-040809-DR-264	1.0 UJ	µg/L
					GW-17360-040809-DR-265	1.0 UJ	µg/L
					GW-17360-040809-DR-266	1.0 UJ	µg/L
					GW-17360-040809-DR-267	1.0 UJ	µg/L
					GW-17360-040809-DR-268	1.0 UJ	µg/L
					GW-17360-040809-DR-269	1.0 UJ	µg/L
					GW-17360-040809-DR-270	1.0 UJ	µg/L
					GW-17360-040809-DR-271	1.0 UJ	µg/L

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MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>% Recovery or %D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Dichlorodifluoromethane (continued)	4/16/2009	---	39.6	GW-17360-040809-DR-272	1.0 UJ	µg/L
					GW-17360-040809-DR-273	1.0 UJ	µg/L
					GW-17360-040809-DR-274	1.0 UJ	µg/L
					TB-17360-040809-DR-275	1.0 UJ	µg/L
TCL VOC	Chloromethane	4/16/2009	---	40.8	GW-17360-040809-DR-261	1.0 UJ	µg/L
					GW-17360-040809-DR-262	1.0 UJ	µg/L
					GW-17360-040809-DR-263	1.0 UJ	µg/L
					GW-17360-040809-DR-264	1.0 UJ	µg/L
					GW-17360-040809-DR-265	1.0 UJ	µg/L
					GW-17360-040809-DR-266	1.0 UJ	µg/L
					GW-17360-040809-DR-267	1.0 UJ	µg/L
					GW-17360-040809-DR-268	1.0 UJ	µg/L
					GW-17360-040809-DR-269	1.0 UJ	µg/L
					GW-17360-040809-DR-270	1.0 UJ	µg/L
					GW-17360-040809-DR-271	1.0 UJ	µg/L
					GW-17360-040809-DR-272	1.0 UJ	µg/L
					GW-17360-040809-DR-273	1.0 UJ	µg/L
					GW-17360-040809-DR-274	1.0 UJ	µg/L
TB-17360-040809-DR-275	1.0 UJ	µg/L					
TCL VOC	Bromomethane	4/16/2009	---	37.3	GW-17360-040809-DR-261	1.0 UJ	µg/L
					GW-17360-040809-DR-262	1.0 UJ	µg/L
					GW-17360-040809-DR-263	1.0 UJ	µg/L
					GW-17360-040809-DR-264	1.0 UJ	µg/L
					GW-17360-040809-DR-265	1.0 UJ	µg/L
					GW-17360-040809-DR-266	1.0 UJ	µg/L
					GW-17360-040809-DR-267	1.0 UJ	µg/L
					GW-17360-040809-DR-268	1.0 UJ	µg/L
					GW-17360-040809-DR-269	1.0 UJ	µg/L
					GW-17360-040809-DR-270	1.0 UJ	µg/L
					GW-17360-040809-DR-271	1.0 UJ	µg/L
					GW-17360-040809-DR-272	1.0 UJ	µg/L
					GW-17360-040809-DR-273	1.0 UJ	µg/L
					GW-17360-040809-DR-274	1.0 UJ	µg/L
TB-17360-040809-DR-275	1.0 UJ	µg/L					

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MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>% Recovery or %D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Bromomethane (continued)	4/16/2009	---	37.3	TB-17360-040809-DR-275	1.0 UJ	µg/L
TCL VOC	Trichlorofluoromethane	4/16/2009	---	50.3	GW-17360-040809-DR-261 GW-17360-040809-DR-262 GW-17360-040809-DR-263 GW-17360-040809-DR-264 GW-17360-040809-DR-265 GW-17360-040809-DR-266 GW-17360-040809-DR-267 GW-17360-040809-DR-268 GW-17360-040809-DR-269 GW-17360-040809-DR-270 GW-17360-040809-DR-271 GW-17360-040809-DR-272 GW-17360-040809-DR-273 GW-17360-040809-DR-274 TB-17360-040809-DR-275	1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L
TCL VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	4/16/2009	---	46.2	GW-17360-040809-DR-261 GW-17360-040809-DR-262 GW-17360-040809-DR-263 GW-17360-040809-DR-264 GW-17360-040809-DR-265 GW-17360-040809-DR-266 GW-17360-040809-DR-267 GW-17360-040809-DR-268 GW-17360-040809-DR-269 GW-17360-040809-DR-270 GW-17360-040809-DR-271 GW-17360-040809-DR-272 GW-17360-040809-DR-273	1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ 1.0 UJ	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS  
 MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
 GENERAL MOTORS GRAND RAPIDS MFD  
 WYOMING, MICHIGAN

Parameter	Analyte	Calibration Date	RRF	% Recovery or %D	Associated Sample ID	Qualified Result	Units
TCL VOC	1,1,2-Trichloro-1,2,2-trifluoroethane (continued)	4/16/2009	---	46.2	GW-17360-040809-DR-274 TB-17360-040809-DR-275	1.0 UJ 1.0 UJ	µg/L µg/L

Notes:

- UJ - Non-detect with an Estimated Report Limit
- RRF - Relative Response Factor
- TCL - Target Compound List
- VOC - Volatile Organic Compounds
- %D - Percent Difference

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO OUTLYING  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND/OR RELATIVE PERCENT DIFFERENCE  
MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
GENERAL MOTORS GRAND RAPIDS MFD  
WYOMING, MICHIGAN

Parameter	Analyte	MS Recovery (percent)	MSD Recovery (percent)	RPD	Control Limits		Associated Sample ID	Qualified Result	Units
					Recovery (percent)	RPD (percent)			
TCL VOC	cis-1,3-Dichloropropene Methylcyclohexane	76	76	0.47	82-130	30	GW-17360-040609-DR-238	1.0 UJ	µg/L
		67	69	3.6	70-130	30	GW-17360-040609-DR-238	1.0 UJ	µg/L
TCL VOC	cis-1,3-Dichloropropene Tetrachloroethene	81	79	3.1	82-130	30	GW-17360-040709-DR-259	11 UJ	µg/L
		78	77	0.24	85-121	30	GW-17360-040709-DR-259	380 J	µg/L

**Notes:**

- J - Estimated Concentration
- UJ - Non-detect with an Estimated Report Limit
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- RPD - Relative Percent Difference
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 5

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING  
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS  
 MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
 GENERAL MOTORS GRAND RAPIDS MFD  
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	Dichlorodifluoromethane	04/13/09	68	61	12	70-130	30	GW-17360-040609-DR-230	1.0 UJ	µg/L
								GW-17360-040609-DR-231	1.0 UJ	µg/L
								GW-17360-040609-DR-232	1.0 UJ	µg/L
								GW-17360-040609-DR-233	1.0 UJ	µg/L
								WS-17360-040609-DR-235	1.0 UJ	µg/L
								WS-17360-040609-DR-236	1.0 UJ	µg/L
								WS-17360-040609-DR-237	1.0 UJ	µg/L
								GW-17360-040609-DR-238	1.0 UJ	µg/L
								GW-17360-040609-DR-239	1.0 UJ	µg/L
								GW-17360-040609-DR-240	1.0 UJ	µg/L
								GW-17360-040709-DR-241	1.0 UJ	µg/L
								GW-17360-040709-DR-242	1.0 UJ	µg/L
								GW-17360-040709-DR-243	1.7 UJ	µg/L
								GW-17360-040709-DR-244	1.0 UJ	µg/L
								GW-17360-040709-DR-245	1.0 UJ	µg/L
								GW-17360-040709-DR-246	1.0 UJ	µg/L
								GW-17360-040709-DR-247	1.0 UJ	µg/L
								GW-17360-040709-DR-248	1.0 UJ	µg/L
								GW-17360-040709-DR-249	1.0 UJ	µg/L
								GW-17360-040709-DR-250	1.0 UJ	µg/L
TCL VOC	cis-1,3-Dichloropropene	04/13/09	80	81	0.27	84-130	30	GW-17360-040609-DR-230	1.0 UJ	µg/L
								GW-17360-040609-DR-231	1.0 UJ	µg/L
								GW-17360-040609-DR-232	1.0 UJ	µg/L
								GW-17360-040609-DR-233	1.0 UJ	µg/L
								WS-17360-040609-DR-235	1.0 UJ	µg/L
								WS-17360-040609-DR-236	1.0 UJ	µg/L
								WS-17360-040609-DR-237	1.0 UJ	µg/L
								GW-17360-040609-DR-238	1.0 UJ	µg/L
								GW-17360-040609-DR-239	1.0 UJ	µg/L
								GW-17360-040609-DR-240	1.0 UJ	µg/L

TABLE 5

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING  
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS  
 MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
 GENERAL MOTORS GRAND RAPIDS MFD  
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	cis-1,3-Dichloropropene (continued)	04/13/09	80	81	0.27	84-130	30	GW-17360-040709-DR-243	1.7 UJ	µg/L
								GW-17360-040709-DR-244	1.0 UJ	µg/L
								GW-17360-040709-DR-245	1.0 UJ	µg/L
								GW-17360-040709-DR-246	1.0 UJ	µg/L
								GW-17360-040709-DR-247	1.0 UJ	µg/L
								GW-17360-040709-DR-248	1.0 UJ	µg/L
								GW-17360-040709-DR-249	1.0 UJ	µg/L
								GW-17360-040709-DR-250	1.0 UJ	µg/L
TCL VOC	trans-1,3-Dichloropropene	04/13/09	80	85	5.7	84-130	30	GW-17360-040609-DR-230	1.0 UJ	µg/L
								GW-17360-040609-DR-231	1.0 UJ	µg/L
								GW-17360-040609-DR-232	1.0 UJ	µg/L
								GW-17360-040609-DR-233	1.0 UJ	µg/L
								WS-17360-040609-DR-235	1.0 UJ	µg/L
								WS-17360-040609-DR-236	1.0 UJ	µg/L
								WS-17360-040609-DR-237	1.0 UJ	µg/L
								GW-17360-040609-DR-238	1.0 UJ	µg/L
								GW-17360-040609-DR-239	1.0 UJ	µg/L
								GW-17360-040609-DR-240	1.0 UJ	µg/L
GW-17360-040709-DR-241	1.0 UJ	µg/L								
GW-17360-040709-DR-242	1.0 UJ	µg/L								
GW-17360-040709-DR-243	1.7 UJ	µg/L								
GW-17360-040709-DR-244	1.0 UJ	µg/L								
GW-17360-040709-DR-245	1.0 UJ	µg/L								
GW-17360-040709-DR-246	1.0 UJ	µg/L								
GW-17360-040709-DR-247	1.0 UJ	µg/L								
GW-17360-040709-DR-248	1.0 UJ	µg/L								
GW-17360-040709-DR-249	1.0 UJ	µg/L								

TABLE 5

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING  
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS  
 MONITORING WELL AND CULVERT SAMPLING - APRIL 2009  
 GENERAL MOTORS GRAND RAPIDS MFD  
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits %Rec RPD	Associated Sample ID	Qualified Result	Units
TCL VOC	trans-1,3-Dichloropropene (continued)	04/13/09	80	85	5.7	84-130	30	1.0 UJ	µg/L

Notes:

- UJ - Non-detect with an Estimated Report Limit
- LCS - Laboratory Control Spike
- LCD - Laboratory Control Spike Duplicate
- %Rec - Percent Recovery
- RPD - Relative Percent Difference
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

ATTACHMENT C  
HISTORICAL ANALYTICAL DATA SUMMARIES

## LIST OF ENCLOSURES

**Floating Oil Summary**

**Water Levels Summary**

**Vacuum Summary**

**Monitoring Well Data Summary / Analytical Data**

**85-7**

**86-2**

**86-3**

**87-1**

**87-2**

**87-4**

**87-5**

**87-8**

**87-9**

**87-10**

**87-11**

**87-13**

**93-1**

**X-10**

**PW Discharge**

**C-1**

**C-2**

**C-3**

**C-4**

**MW1-03**

**MW2-03**

**MW3-03**

**MW4-03**

**MW5-03**

**MW6-03**

**MW7-03**

**MW8-04**

**MW9-04**

**MW10-04**

**MW11D-04**

**MW11S-05**

**MW13-04**

**MW14-04**

**MW15-04**

**MW17-06**

**Field Blank**

**Trip Blank**

**TCE Treatment System Influent, Intermediate, and Effluent**

**Soil Vapor Recovery System Summary 87-3 (Air Well): Influent and Effluent**

**Soil Vapor Recovery System Summary / Flow Data**



**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**FLOATING OIL SUMMARY (In Feet)**

Date	85-03	85-05B	85-06	86-01
12/21/88	0.02	none	none	--
02/17/89	0.02	none	none	none
03/16/89	trace	none	none	none
04/20/89	0.01	sheen	none	none
05/18/89	0.01	none	none	none
06/16/89	trace	none	none	none
07/18/89	0.01	none	none	none
08/22/89	0.01	none	none	none
09/22/89	0.01	none	trace	none
10/13/89	0.01	none	none	none
11/17/89	0.03	none	none	none
12/21/89	0.4	none	none	none
01/12/90	2.75	--	none	none
01/19/90	0.25	none	none	none
02/16/90	0.02	none	none	none
03/16/90	0.02	none	none	none
04/12/90	0.01	none	none	none
05/18/90	0.01	none	none	none
06/19/90	none	none	none	none
07/13/90	trace	none	none	none
08/20/90	none	--	none	none
09/14/90	trace	--	none	none
10/12/90	trace	--	none	none
11/15/90	trace	none	none	none
12/18/90	trace	--	none	none
01/15/91	none	--	--	--
02/20/91	none	--	--	--
03/11/91	none	--	none	none
04/18/91	none	--	--	--
05/16/91	none	--	--	--
06/13/91	trace	--	none	none
07/19/91	trace	--	--	--
08/19/91	0.01	--	--	--
09/12/91	0.46	--	none	none
10/16/91 *	0.3	--	--	--
11/15/91	0.19	none	none	none
12/13/91	0.16	none	none	none
01/17/92	0.06	--	--	--
02/14/92	0.47	--	--	--
03/13/92	0.22	--	none	none
04/21/92	0.14	--	--	--
05/15/92	0.14	--	--	--
06/12/92	0.09	--	none	none
07/17/92	0.15	--	--	--
08/13/92	0.16	--	--	--
09/11/92	0.26	--	none	none
10/16/92	0.46	--	--	--
11/12/92	0.34	--	--	--
12/10/92	0.15	none	none	none
01/15/93	0.04	--	--	--
02/12/93	0.08	--	--	--
03/11/93	0.14	--	none	none

-- = Not measured

\* = Initiated use of keck interface probe for all product measurements.

**General Motors  
Grand Rapids Metal Fabrication Plant  
FLOATING OIL SUMMARY (In Feet)**

<b>Date</b>	<b>85-03</b>	<b>85-05B</b>	<b>85-06</b>	<b>86-01</b>
04/15/93	0.15	--	--	--
05/13/93	0.06	--	--	--
06/14/93	0.12	--	none	none
07/16/93	0.04	--	--	--
08/11/93	0.03	--	--	--
09/15/93	0.17	--	none	none
10/19/93	0.05	--	--	--
11/17/93	0.04	--	--	--
12/17/93	0.37	none	none	none
01/13/94	0.47	--	--	--
02/15/94	0.89	--	--	--
03/16/94	0.19	--	none	none
04/13/94	0.01	--	--	--
05/12/94	0.11	--	--	--
06/14/94	0.16	--	none	none
07/13/94	0.04	--	--	--
08/12/94	0.02	--	--	--
09/14/94	0.07	--	none	none
10/18/94	0.09	--	--	--
11/11/94	none	--	--	--
12/16/94	0.09	none	none	none
01/13/95	0.26	--	--	--
02/14/95	0.02	--	--	--
03/17/95	0.14	--	none	none
04/13/95	0.21	--	--	--
05/15/95	none	--	--	--
06/20/95	none	--	none	none
07/13/95	none	--	--	--
08/11/95	0.14	--	--	--
09/14/95	0.23	--	none	none
10/17/95	0.59	--	--	--
11/17/95	0.08	--	--	--
12/18/95	none	none	none	none
01/06/96	0.33	--	--	--
02/19/96	0.72	--	--	--
03/19/96	0.89	--	none	none
04/12/96	0.72	--	--	--
05/16/96	0.01	--	--	--
06/13/96	none	--	none	none
07/16/96	none	--	--	--
08/16/96	0.01	--	--	--
09/13/96	none	--	none	none
10/17/96	0.19	--	--	--
11/19/96	0.30	--	--	--
12/12/96	0.68	0.01	none	none
01/20/97	0.39	--	--	--
02/14/97	none	--	--	--
03/13/97	none	--	none	none
04/18/97	none	--	--	--
05/15/97	none	--	--	--
06/19/97	none	--	none	none

-- = Not measured

**General Motors  
Grand Rapids Metal Fabrication Plant  
FLOATING OIL SUMMARY (In Feet)**

<b>Date</b>	<b>85-03</b>	<b>85-05B</b>	<b>85-06</b>	<b>86-01</b>
07/17/97	none	--	--	--
08/14/97	none	--	--	--
09/11/97	0.05	--	none	none
10/17/97	0.15	--	--	--
11/14/97	0.24	--	--	--
12/16/97	0.93	none	none	none
01/14/98	0.53	--	--	--
02/16/98	0.04	--	--	--
03/12/98	0.02	--	none	none
04/22/98	none	--	--	--
05/20/98	0.38	--	--	--
06/16/98	0.51	--	none	none
07/16/98	none	--	--	--
08/19/98	0.51	--	--	--
09/17/98	0.78	--	none	none
10/14/98	0.77	--	--	--
11/18/98	0.84	--	--	--
12/16/98	0.96	0.02	none	none
01/12/99	0.96	--	--	--
02/16/99	0.05	--	--	--
03/10/99	0.09	--	none	none
04/12/99	0.12	--	--	--
05/18/99	none	--	--	--
06/15/99	none	--	none	none
07/21/99	none	--	--	--
08/17/99	0.02	--	--	--
09/20/99	0.15	--	none	none
10/19/99	0.52	--	--	--
11/17/99	0.45	--	--	--
12/16/99	0.47	0.03	none	none
01/11/00	0.49	--	--	--
02/15/00	0.55	--	--	--
03/16/00	0.38	--	none	none
04/19/00	0.35	--	--	--
05/15/00	none	--	--	--
06/13/00	none	--	none	none
07/25/00	none	--	--	--
08/23/00	none	--	--	--
09/22/00	0.02	--	none	none
10/23/00	none	--	--	--
11/16/00	0.02	--	--	--
12/20/00	none	0.04	none	none
01/18/01	none	--	--	--
02/21/01	none	--	--	--
03/21/01	none	--	none	none

-- = Not measured

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**FLOATING OIL SUMMARY (In Feet)**

<b>Date</b>	<b>85-03</b>	<b>85-05B</b>	<b>85-06</b>	<b>86-01</b>
04/17/01	none	--	--	--
05/15/01	none	--	--	--
06/13/01	none	--	none	none
07/16/01	none	--	--	--
08/22/01	none	--	--	--
09/13/01	none	--	none	none
10/09/01	none	--	--	--
11/13/01	none	--	--	--
12/19/01	none	0.03	none	none
03/21/03	0.06	none	none	none
07/15/03	0.25	none	none	--
10/07/03	none	none	none	none
12/17/03	none	none	none	none
03/15/04	none	none	none	none
10/04/04	0.12	none	none	none
12/03/04	0.10	none	none	none
04/06/05	none	none	none	none
12/02/05	none	none	none	none
09/11/06	--	none	none	none
05/09/07	none	none	none	none
10/15/07	0.02	none	none	none
04/23/08	none	none	none	none
10/08/08	none	none	none	none
04/06/08	none	none	none	none

-- = *Not measured*

**General Motors  
Grand Rapids Metal Fabrication Plant  
WATER LEVELS (In Feet)  
SUMMARY**

	12/21/1988	1/18/1989	2/17/1989	3/16/1989	4/20/1989	5/18/1989	6/16/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990
Start date:	12/21/1988	1/18/1989	2/17/1989	3/16/1989	4/20/1989	5/18/1989	6/16/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990
End date:	12/21/1988	1/20/1989	2/18/1989	3/17/1989	4/20/1989	5/18/1989	6/19/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990
85-1	660.08	660.01	Under water	659.35	659.80	659.76	659.93	659.86	Under water	659.91	659.60	Under water	659.66	659.53	659.42
85-2	658.54	658.47	658.34	658.37	658.30	658.33	658.42	658.45	658.44	658.44	658.27	658.39	658.37	658.14	658.10
85-3	661.23	661.06	660.58	660.43	660.68	660.55	660.78	660.74	660.63	660.58	660.11	660.11	659.55	659.14	658.10
85-5B	661.22	661.01	660.63	660.49	660.67	660.60	660.82	660.75	660.63	660.59	No access	No access	659.87	660.22	No access
85-6	661.80	661.59	661.14	661.12	661.38	661.25	661.57	661.37	661.28	661.14	660.71	660.69	660.42	660.87	660.44
85-7	659.04	658.95	658.77	658.73	658.65	658.73	658.83	658.86	659.02	658.88	658.62	658.73	658.39	658.41	658.34
86-1	Can't open	660.14	659.83	659.70	659.76	660.28	660.12	659.98	659.97	659.90	659.49	659.52	659.28	659.39	659.18
86-2	659.78	659.77	659.51	Pumping	Pumping	Pumping	658.17	657.92	Stop data	658.01	658.26	657.67	659.59	659.59	657.51
86-3	658.26	658.17	658.00	658.00	657.81	657.93	658.13	658.07	658.22	658.01	657.86	657.99	657.67	658.60	657.45
87-1	659.74	659.66	659.43	659.40	659.43	659.43	659.51	659.50	659.53	659.53	659.20	659.30	659.10	659.17	658.97
87-2	660.84	660.48	660.29	660.31	660.48	660.41	660.44	660.33	660.34	660.27	660.05	660.11	659.96	660.14	659.84
87-4	659.68	659.66	659.42	659.40	659.37	659.38	659.47	659.46	659.44	659.43	659.19	659.29	659.17	659.11	658.98
87-5	659.48	659.56	659.33	659.33	659.30	659.33	659.33	659.44	659.45	659.40	658.86	659.25	659.14	659.07	658.95
87-8	658.42	658.33	661.65	658.10	657.92	658.07	658.24	658.24	658.31	658.30	658.30	658.99	658.10	659.07	658.95
87-9	658.13	658.06	661.43	657.93	657.75	657.86	657.97	658.00	658.23	658.00	657.80	657.92	657.75	657.75	657.66
87-10	656.65	656.51	657.75	656.19	656.03	656.32	656.56	656.51	656.88	656.63	656.45	656.63	656.41	656.11	656.07
87-11	656.24	656.19	656.88	655.60	655.82	656.07	656.18	656.19	657.09	656.30	656.19	656.40	656.19	655.61	655.07
87-13	654.07	654.02	653.95	653.99	653.80	653.85	654.25	654.26	654.10	654.79	654.85	654.89	654.04	653.81	653.78
88-1	658.31	Broken	Broken	Broken	Broken	656.03	656.26	656.38	656.97	656.54	656.41	656.64	656.52	656.10	656.08
88-2	655.03	654.92	654.89	655.07	654.50	654.77	654.99	654.98	656.04	655.37	655.43	655.46	656.23	654.80	654.69
88-3	654.29	654.23	654.16	654.27	653.94	654.08	654.45	654.42	655.64	654.97	655.00	655.24	654.54	653.27	654.01
88-4	Can't find	653.19	653.14	653.27	653.01	653.00	653.54	653.54	654.85	654.04	654.06	654.28	653.63	652.69	652.63
93-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW1-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW4-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW5-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW6-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW7-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW8-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW9-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW10-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW11D-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW11S-05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW13-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW14-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW15-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW17-06	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
C-1	657.75	658.04	657.46	Gauge gone	657.64	657.66	657.66	657.87	657.65	Debris	657.87	657.87	657.87	657.82	657.82
C-2	655.38	654.58	650.84	649.79	651.38	651.37	651.37	651.37	651.37	651.37	651.37	651.37	651.37	651.37	651.37
C-4	*	*	656.92	Gauge gone	657.68	657.66	657.74	657.88	657.78	657.70	657.63	657.82	657.90	657.69	657.83
X-10	*	*	*	*	*	*	659.11	659.03	659.17	659.08	658.75	658.88	658.73	658.64	658.54
PW-DJSCH	*	*	*	*	*	*	657.74	657.74	657.74	Pumping	657.16	657.49	653.84	653.05	652.79

-- = Not measured.  
 \* = Not installed.  
 \*\*\* = City of Wyoming cleared culvert of debris, but broke the concrete elevation reference point.  
 \*\*\*\* = Well no longer exists.  
 Note: Additional monthly groundwater elevations are available in the database.

**General Motors  
Grand Rapids Metal Fabrication Plant  
WATER LEVELS (In Feet)  
SUMMARY**

Start date:	2/16/1990	3/16/1990	4/12/1990	5/18/1990	6/19/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/17/1990	3/11/1991	6/13/1991	9/12/1991	12/13/1991
End date:	2/16/1990	3/16/1990	4/12/1990	5/18/1990	6/19/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/17/1990	3/11/1991	6/13/1991	9/12/1991	12/13/1991
85-1	Under water	659.65	Under water	659.87	659.81	Needs flush mt.	Can't open	Can't open	Can't open	660.13	660.15	659.75	659.90	659.89	660.02
85-2	658.17	658.29	658.27	658.54	658.43	658.65	658.46	658.75	658.65	658.64	659.06	658.41	658.50	658.51	658.67
85-3	659.86	660.21	660.17	660.78	660.85	660.63	660.61	660.45	660.71	661.45	661.46	660.6	661.01	659.81	661.11
85-5B	660.06	660.32	No access	660.83	660.89	660.67	No access	No access	No access	661.45	No access	660.6	661.01	--	660.18
85-6	660.62	661.00	661.13	661.46	661.55	661.30	661.40	661.27	661.35	662.10	662.03	--	--	660.80	661.56
85-7	658.42	658.55	658.57	658.84	658.76	658.66	658.85	658.71	658.91	659.07	659.07	661.11	661.55	660.80	661.56
86-1	659.34	659.55	659.69	660.01	660.01	659.81	659.83	659.69	659.95	660.49	660.54	658.71	658.88	658.78	659.07
86-2	657.59	657.76	657.63	657.92	657.84	657.76	657.84	657.92	658.01	658.01	658.26	657.92	660.00	659.54	660.27
86-3	659.04	659.22	659.24	659.46	659.45	659.35	659.35	659.45	659.63	658.11	658.11	657.84	657.84	657.84	658.22
87-1	659.88	660.17	660.06	660.27	660.27	660.20	660.56	660.49	660.65	659.83	659.89	659.36	659.56	659.59	659.59
87-2	659.06	659.21	659.23	659.47	659.41	659.31	659.49	659.42	660.65	660.77	660.90	660.24	660.51	660.31	660.48
87-4	659.01	659.16	659.23	659.46	659.41	659.30	659.49	659.42	659.54	659.74	659.77	659.38	659.56	659.45	659.63
87-5	657.75	657.88	657.91	658.20	658.12	658.00	658.08	657.98	658.24	658.57	658.58	659.34	659.51	659.37	659.61
87-8	657.56	657.75	657.69	657.95	657.85	657.75	657.85	657.98	658.05	658.10	658.11	658.06	658.26	658.11	658.49
87-9	656.16	656.36	656.30	656.54	656.42	656.32	656.42	656.32	656.65	656.70	656.69	656.43	657.98	657.93	658.19
87-10	655.95	656.12	656.03	656.34	656.22	656.11	656.14	656.06	656.33	656.31	656.29	656.12	656.17	656.21	656.84
87-11	653.90	653.98	653.89	654.04	653.91	653.93	654.00	654.02	654.10	654.12	654.08	653.98	654.04	654.22	654.22
88-1	656.15	656.29	656.23	656.49	656.30	656.24	656.39	656.26	656.67	656.55	656.55	655.00	654.82	655.06	655.00
88-2	654.67	654.83	654.90	655.12	654.97	654.98	655.04	654.91	657.43	655.14	655.26	655.00	654.82	655.06	655.00
88-3	654.10	654.24	654.16	654.43	654.18	654.17	654.39	654.24	654.80	654.45	654.36	654.25	654.29	654.52	654.62
88-4	653.06	653.21	653.13	653.44	653.16	653.20	653.49	653.29	653.78	653.40	653.36	653.29	653.34	653.51	653.75
93-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW1-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW4-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW5-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW6-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW7-03	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW8-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW9-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW10-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW11D-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW11S-05	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW13-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW14-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW15-04	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW17-06	657.91	657.83	657.81	657.85	657.88	657.86	657.83	657.80	657.83	657.83	657.84	657.85	657.78	657.72	657.99
C-1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
C-2	657.90	657.80	657.82	657.84	657.89	657.85	657.80	657.83	657.82	657.84	657.85	657.83	657.40	651.62	651.54
C-4	658.63	658.74	658.78	659.07	658.98	658.87	659.00	658.92	659.13	659.28	659.31	658.92	657.76	657.71	657.95
X-10	652.20	652.00	651.69	652.31	651.47	651.24	650.88	650.50	651.03	650.67	650.12	649.06	648.24	647.27	647.39
PW-DISCH															

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 \*\*\*\* = Well no longer exists.  
 Note: Additional monthly groundwater elevations are available in the database.

**General Motors  
Grand Rapids Metal Fabrication Plant  
WATER LEVELS (In Feet)  
SUMMARY**

Start date:	3/13/1992	6/12/1992	9/11/1992	12/10/1992	3/11/1993	6/14/1993	9/15/1993	12/17/1993	3/16/1994	6/14/1994	9/14/1994	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/18/1995
End date:	3/13/1992	6/12/1992	9/11/1992	12/10/1992	3/11/1993	6/15/1993	9/15/1993	12/17/1993	3/16/1994	6/14/1994	9/14/1994	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/18/1995
RS-1	659.60	659.77	659.68	659.51	659.50	659.89	659.71	659.46	659.54	659.52	659.70	659.44	659.37	659.60	659.48	659.38
RS-2	658.30	658.47	658.37	658.22	658.22	658.64	658.47	658.16	658.24	658.24	658.30	658.20	658.16	658.28	658.16	658.12
RS-3	660.06	660.51	659.96	659.92	660.05	660.72	659.86	659.58	660.09	659.85	660.33	659.81	659.68	660.53	659.65	659.90
RS-5B				660.10				659.94				659.95				659.92
RS-6	660.79	661.08	660.78	660.62	660.75	661.43	660.56	660.44	660.80	660.54	659.12	660.45	660.37	661.11	660.48	660.46
RS-7	658.59	658.85	658.64	658.48	658.47	658.81	658.65	658.48	658.49	658.46	658.62	658.41	658.34	658.57	658.36	658.32
RS-8	659.41	659.72	659.41	659.17	659.26	659.81	659.30	659.11	659.37	659.16	661.34	659.09	658.98	659.52	659.05	659.06
RS-9	658.90	658.99	658.81	658.83	658.83	658.93	658.96	658.71	658.91	658.89	659.35	658.89	658.76	659.14	659.18	658.79
RS-3	657.74	660.12	657.76	657.60	657.60	657.93	Susp data	657.52	657.66	657.58	657.69	657.57	657.43	657.69	657.52	657.47
RS-1	659.17	659.37	659.26	659.16	659.16	659.45	659.11	659.01	659.10	659.03	659.30	659.02	658.93	659.25	659.02	658.99
RS-2	660.10	660.21	660.28	660.09	660.13	660.43	659.99	659.96	660.01	660.27	660.01	659.96	659.93	660.25	660.04	659.95
RS-4	659.21	659.39	659.28	659.14	659.12	659.43	659.23	659.03	660.13	659.08	659.33	659.04	658.95	659.21	659.04	658.99
RS-5	659.17	659.37	659.23	659.07	659.05	659.58	659.18	658.98	659.12	659.05	659.27	658.99	658.90	659.17	658.97	658.95
RS-8	657.96	658.22	657.98	657.82	657.81	658.15	658.04	657.75	657.92	657.77	657.95	657.74	657.62	657.92	657.72	657.64
RS-9	657.75	658.02	657.77	657.63	657.62	657.99	Susp data	658.60	657.71	657.66	657.71	657.59	657.48	657.70	657.54	657.49
RS-10	656.36	656.49	656.35	656.21	656.24	656.55	656.48	656.15	656.31	656.24	656.21	656.09	656.08	656.26	656.04	656.03
RS-11	656.06	656.17	656.10	655.99	656.04	656.22	656.21	655.93	656.04	656.04	655.97	655.92	655.87	656.00	655.85	655.83
RS-13	654.01	653.99	653.95	653.88	653.94	654.05	653.99	653.76	653.90	653.84	653.78	653.73	653.71	653.70	653.59	653.56
RS-1	655.26	655.00	655.16	655.08	655.04	655.12	655.20	654.66	654.86	654.82	654.66	654.59	654.57	654.61	654.48	654.50
RS-2	654.27	654.20	654.31	654.11	654.12	654.47	654.54	654.00	654.13	654.13	653.99	653.94	653.88	653.94	653.78	653.80
RS-3	653.45	653.21	653.23	653.11	653.29	653.44	653.34	652.98	653.21	653.03	652.89	652.87	652.88	652.89	652.76	652.76
RS-4																
RS-1																
MW1-03																
MW2-03																
MW3-03																
MW4-03																
MW5-03																
MW6-03																
MW7-03																
MW8-04																
MW9-04																
MW10-04																
MW11D-04																
MW11S-05																
MW13-04																
MW14-04																
MW15-04																
MW17-06																
C-1	657.90	657.81	657.84	657.84	657.99	657.77	657.74	657.81	657.88	657.84	657.79	657.92	657.74	Debris	Debris	Debris
C-2	651.77	651.47	651.94	652.12	651.73	651.73	651.73	651.81	651.88	649.07	649.07	649.82	649.22	649.07	649.17	649.02
C-4	657.65	657.83	657.83	657.85	657.87	657.70	657.73	657.80	657.83	657.75	657.75	657.86	657.83	657.75	657.65	657.58
X-10	658.79	659.00	658.74	658.69	658.66	659.01	658.82	658.60	658.72	658.67	658.82	658.62	658.52	658.69	658.57	658.55
PW-DISCH	645.15	658.13	644.56	644.75	644.36	643.97	642.87	642.33	642.25	641.17	655.00	655.19	654.43	654.57	654.17	653.89

-- = Not measured.

\* = Not installed.

\*\*\* = City of Wyoming cleared culvert of debris, but broke the concrete elevation reference point.

\*\*\*\* = Well no longer exists.

Note: Additional monthly groundwater elevations are available in the database.

**General Motors  
Grand Rapids Metal Fabrication Plant  
WATER LEVELS (In Feet)  
SUMMARY**

Start date:	3/19/1996	6/13/1996	9/13/1996	12/12/1996	3/13/1997	6/19/1997	9/11/1997	12/16/1997	3/12/1998	6/16/1998	9/17/1998	12/16/1998	3/10/1999	6/15/1999	9/20/1999	12/16/1999	3/10/2000	6/13/2000	9/22/2000	12/20/2000	3/21/2001		
End date:	3/19/1996	6/13/1996	9/13/1996	12/12/1996	3/13/1997	6/19/1997	9/11/1997	12/16/1997	3/12/1998	6/16/1998	9/17/1998	12/16/1998	3/10/1999	6/15/1999	9/20/1999	12/16/1999	3/10/2000	6/13/2000	9/22/2000	12/20/2000	3/21/2001		
85-1	659.15	659.67	659.38	659.18	659.64	659.45	659.33	659.06	Under ice	658.86	659.14	659.90	659.20	659.46	659.30	659.01	658.79	659.70	659.40	659.20	659.38	659.74	
85-2	657.99	658.39	658.13	657.96	658.51	658.14	658.07	657.92	658.05	657.73	657.98	657.86	658.19	658.32	658.04	657.99	658.79	658.62	658.22	658.20	658.20	658.54	
85-3	658.61	660.90	660.17	658.78	661.16	660.24	659.77	658.42	659.73	658.44	658.58	658.06	659.50	660.47	659.26	658.61	658.60	660.71	659.78	659.99	659.99	660.48	
85-5B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	659.11	--	--	--	659.94	--	--	
85-6	660.05	661.45	661.19	660.08	661.66	660.79	660.44	659.94	660.29	659.73	659.93	659.46	660.11	661.69	659.97	659.64	659.51	661.22	660.31	660.45	660.99	660.99	
85-7	658.13	658.69	658.35	658.15	658.72	658.39	658.27	658.06	658.23	657.65	658.12	658.09	658.20	658.46	658.21	658.45	657.89	658.40	658.80	658.40	658.41	658.79	658.79
86-1	658.67	659.83	659.15	658.65	660.01	659.29	658.96	658.53	658.91	658.11	658.60	658.26	659.69	659.33	658.69	658.36	658.24	659.80	659.04	659.04	659.17	659.56	659.56
86-2	658.55	659.72	658.84	658.66	659.21	658.97	658.86	658.61	658.76	658.03	658.63	659.40	658.83	659.24	658.67	658.25	658.10	658.18	658.24	658.28	658.28	657.88	657.88
86-3	657.32	657.80	657.55	657.27	657.93	657.58	657.40	657.21	657.40	656.91	657.29	657.13	657.37	657.58	657.32	657.23	657.09	657.90	657.55	657.55	657.93	657.93	657.93
87-1	658.73	659.34	659.00	658.77	659.45	659.08	658.93	658.67	658.82	657.55	658.43	658.32	658.80	659.00	658.72	658.51	658.35	659.26	659.86	659.86	659.87	659.46	659.46
87-2	659.63	660.25	659.98	659.71	660.26	660.07	659.91	659.56	659.68	659.39	659.62	659.08	659.62	659.79	659.48	659.37	659.14	660.02	659.86	659.86	659.87	660.48	660.48
87-4	658.73	659.29	659.01	658.79	659.35	659.07	658.93	658.69	658.83	658.16	658.74	658.50	658.83	658.99	658.75	658.56	658.36	659.26	658.99	658.99	659.01	659.36	659.36
87-5	658.68	659.28	659.01	658.75	659.31	659.00	658.89	658.63	658.81	657.91	658.69	658.45	658.77	658.94	658.70	658.53	658.34	659.27	658.93	658.93	659.32	659.32	659.32
87-6	657.47	658.05	657.76	657.44	658.21	657.78	657.56	657.35	657.55	657.15	657.43	657.25	657.53	657.76	657.49	657.35	657.21	657.73	657.76	657.76	657.84	657.84	657.84
87-9	657.31	657.81	657.58	657.33	657.84	657.60	657.43	657.26	657.45	657.10	657.35	657.22	657.11	657.60	657.38	657.34	657.18	658.04	657.60	657.61	657.84	657.84	657.84
87-10	655.88	656.32	656.00	655.84	656.52	656.08	655.90	655.76	655.96	655.90	655.85	655.72	655.92	656.14	655.92	655.93	655.78	656.67	656.14	656.18	656.37	656.37	656.37
87-11	655.71	656.01	655.81	655.70	656.15	655.76	655.72	655.62	655.76	655.74	655.69	655.60	655.74	655.78	655.95	655.79	655.40	656.05	656.08	656.19	656.19	656.19	656.19
87-13	653.55	653.66	653.45	653.43	653.73	653.49	653.42	653.42	653.52	653.47	653.41	653.30	653.52	653.62	653.57	653.74	653.61	653.96	653.57	653.55	653.74	653.74	653.74
88-1	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88	654.88
88-2	654.80	654.86	654.38	654.40	654.67	654.45	654.46	654.31	654.50	654.44	654.38	654.25	654.42	654.62	654.51	654.64	654.46	655.20	654.61	654.66	654.66	654.66	654.66
88-3	653.70	653.98	653.68	653.70	653.98	653.72	653.70	Damaged	653.96	654.05	654.00	653.94	654.06	654.20	654.13	654.37	654.14	654.83	654.22	654.10	654.18	654.18	654.18
88-4	652.67	653.30	652.64	652.67	652.95	652.74	652.70	652.61	652.84	652.75	652.62	652.78	652.79	652.91	652.94	653.17	652.93	653.60	652.93	652.90	652.85	652.85	652.85
92-1	654.90	655.07	654.89	654.83	655.13	654.82	654.79	654.79	654.82	654.80	654.80	654.72	654.40	655.06	654.94	655.15	655.93	655.36	655.04	655.09	655.18	655.18	655.18
MW1-03																							
MW2-03																							
MW3-03																							
MW4-03																							
MW5-03																							
MW6-03																							
MW7-03																							
MW8-04																							
MW9-04																							
MW10-04																							
MW11D-04																							
MW11S-05																							
MW13-04																							
MW14-04																							
MW15-04																							
MW17-06																							
C-1	Debris	657.50	657.39	657.46	657.60	657.64	657.64	657.65	657.65	657.58	657.64	657.57	657.62	657.63	657.63	657.76	657.70	Debris	Debris	Debris	Debris	657.82	657.82
C-2	649.02	649.17	649.02	649.01	649.39	649.10	649.10	650.14	650.14	649.31	649.02	650.08	650.32	650.32	650.54	650.90	650.81	650.59	650.50	650.50	650.42	649.17	649.17
C-4	657.63	657.77	657.43	657.37	657.44	657.61	657.61	657.69	657.61	657.57	657.55	657.55	657.67	657.67	657.72	657.73	657.71	657.75	657.73	657.73	657.75	657.77	657.77
X-10	658.33	658.92	658.61	658.37	659.94	658.60	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49	660.49
PW-DISCH	653.81	652.87	653.34	653.02	653.54	653.04	652.52	652.52	652.52	651.82	652.01	651.85	651.64	651.46	651.37	651.07	650.54	651.39	651.15	650.73	651.22	651.22	651.22

-- = Not measured.  
 \* = Not installed.  
 \*\*\* = City of Wyoming cleared culvert  
 \*\*\*\* = Well no longer exists.  
 Note: Additional monthly groundwater elevations are available in the database.

**General Motors  
Grand Rapids Metal Fabrication Plant  
WATER LEVELS (In Feet)  
SUMMARY**

Start date:	6/13/2001	9/13/2001	12/19/2001	3/28/2002	6/26/2002	9/26/2002	12/9/2002	3/20/2003	7/14/2003	9/29/2003	12/17/2003	3/15/2003	10/4/2004	11/30/2004	4/4/2005	6/27/2005	12/22/2005	9/13/2006	5/12/2007	10/15/2007	4/23/2008	10/8/2008	4/6/2009	
End date:	6/13/2001	9/13/2001	12/19/2001	3/28/2002	6/26/2002	9/26/2002	12/9/2002	3/20/2003	7/14/2003	9/29/2003	12/17/2003	3/15/2003	10/4/2004	11/30/2004	4/4/2005	6/27/2005	12/22/2005	9/13/2006	5/12/2007	10/15/2007	4/23/2008	10/8/2008	4/6/2009	
85-1	659.91	659.83	659.76	660.17	660.10	659.99	659.96	659.28	658.87	658.63	658.63	659.17	658.89	658.98	659.25	659.18	658.85	661.35	660.03	659.15	659.57	659.67	659.66	
85-2	658.61	658.48	658.44	658.83	658.80	658.66	658.49	657.35	657.75	657.57	658.24	658.24	658.81	657.91	657.99	657.90	657.76	661.35	658.63	657.95	658.23	658.33	658.34	
85-3	661.17	660.45	660.54	661.15	660.92	660.80	660.07	658.91	659.31	659.37	659.37	660.31	659.11	659.26	660.21	660.10	659.85	661.35	658.63	657.95	658.23	658.33	658.34	
85-5B	661.75	661.04	661.08	661.95	661.68	660.71	660.71	660.07	659.36	659.63	659.63	660.31	659.11	659.26	660.21	660.10	659.85	661.35	658.63	657.95	658.23	658.33	658.34	
85-6	658.97	658.77	658.68	658.93	658.83	658.62	658.44	658.27	657.57	657.36	657.72	657.82	657.50	657.67	658.02	657.93	657.63	658.01	660.77	662.01	660.00	661.59	661.65	
86-1	660.20	659.65	659.60	660.26	660.04	660.07	659.97	658.50	658.45	658.18	658.35	659.21	658.32	658.49	659.19	659.04	658.75	658.91	658.01	658.70	657.86	658.36	658.48	
86-2	658.50	658.70	658.88	659.14	659.21	659.29	659.03	658.60	658.45	658.18	658.35	659.21	658.32	658.49	659.19	659.04	658.75	658.91	658.01	658.70	657.86	658.36	658.48	
86-3	658.06	657.87	657.80	658.33	658.18	658.30	657.97	658.60	658.45	658.18	658.35	659.21	658.32	658.49	659.19	659.04	658.75	658.91	658.01	658.70	657.86	658.36	658.48	
87-1	659.39	659.41	659.36	659.60	659.53	659.67	659.05	658.68	658.36	658.69	657.46	657.01	657.32	658.97	657.42	657.30	657.09	657.76	660.73	658.00	657.29	657.72	657.90	
87-2	660.48	660.44	660.24	660.52	660.46	660.41	659.96	658.46	658.36	658.38	657.46	657.01	657.32	658.97	657.42	657.30	657.09	657.76	660.73	658.00	657.29	657.72	657.90	
87-4	659.58	659.39	659.35	659.32	659.21	659.06	658.97	658.49	658.68	658.42	658.28	659.21	659.43	658.71	659.05	658.88	659.41	660.39	660.87	659.81	660.41	660.5	660.50	
87-5	657.54	659.34	659.31	659.33	659.10	658.91	658.82	658.72	658.40	658.15	658.53	658.60	658.37	658.37	658.87	658.78	658.49	660.22	660.02	658.90	659.56	659.68	659.68	
87-8	658.33	658.08	658.01	658.46	658.33	658.05	658.82	657.62	656.49	656.88	657.76	658.30	656.96	656.96	657.68	657.54	657.28	653.36	658.16	657.53	657.88	657.96	658.05	
87-9	658.05	657.90	657.86	658.06	658.00	657.74	657.67	657.50	656.69	656.70	657.00	657.03	656.81	656.81	657.30	657.00	656.54	646.16	656.25	655.68	656.37	656.25	656.25	
87-10	656.68	656.58	656.51	657.18	657.03	656.84	657.07	656.54	655.57	655.48	655.66	655.78	655.53	655.78	656.02	659.02	655.54	646.16	656.25	655.68	656.37	656.25	656.25	
87-11	656.37	656.29	656.58	656.79	656.67	656.54	656.39	656.33	655.52	655.43	655.62	655.39	655.39	655.71	655.77	655.53	655.4	646.16	656.25	655.68	656.37	656.25	656.25	
87-13	653.69	653.57	653.76	653.69	653.49	653.47	653.69	653.48	653.81	652.75	652.79	652.83	652.86	653.37	653.70	653.70	652.85	652.41	653.14	653.08	652.85	653.55	653.55	
88-1	654.80	654.74	654.69	655.07	654.93	654.77	654.74	654.54	654.20	653.76	654.7	653.99	653.72	654.54	654.40	654.40	653.87	650.15	654.10	653.85	654.15	654.4	654.26	
88-2	654.31	654.32	654.20	654.22	654.12	654.03	653.95	654.04	653.72	653.04	653.12	653.27	652.99	654.12	653.96	653.16	653.27	652.85	653.38	653.13	653.43	653.65	653.49	
88-3	653.01	652.96	652.87	652.93	652.88	652.72	652.61	652.72	652.40	652.25	652.25	652.55	652.21	653.06	653.34	652.38	652.57	650.43	652.63	652.35	652.6	652.84	652.82	
88-4	655.30	655.20	655.28	655.28	655.28	655.28	655.28	655.46	654.20	654.34	654.6	654.36	654.40	654.70	660.76	662.16	660.58	662.52	661.74	660.59	661.47	661.38	661.40	
MW1-03																								
MW2-03																								
MW3-03																								
MW4-03																								
MW5-03																								
MW6-03																								
MW7-03																								
MW8-04																								
MW9-04																								
MW10-04																								
MW11D-04																								
MW11S-05																								
MW13-04																								
MW15-04																								
MW17-06																								
C-1	657.80	657.70	658.42																					
C-2	649.10	649.09	649.72																					
C-4	657.79	657.73	658.18																					
X-10	651.43	650.64	649.96																					
PW-DISCH																								

of debris, but broke the concrete elevation reference point.  
Elevations are available in the database.



**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

**Date:** 4/20/1989 5/18/1989 6/16/1989 7/18/1989 8/22/1989 9/20/1989 10/13/1989 10/20/1989 11/17/1989 12/21/1989 1/12/1990 2/16/1990 3/16/1990

Site	4/20/1989	5/18/1989	6/16/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990	2/16/1990	3/16/1990
87-3	75.00	76.00	76.00	75.00	75.00	77.00	76.00	75.00	75.00	76.00	76.00	76.00	76.00
P1	0.28	0.30	0.30	0.30	0.31	0.32	0.31	0.26	0.27	0.29	0.29	0.30	0.29
P3	0.42	0.44	0.44	0.46	0.44	0.46	0.45	0.43	0.45	0.42	0.44	0.46	0.44
P4	0.63	0.67	0.67	0.65	0.68	0.68	0.69	0.62	0.62	0.66	0.65	0.67	0.62
P5	0.26	0.28	0.29	0.29	0.30	0.30	0.29	0.25	0.25	0.26	0.26	0.26	0.29

**Date:** 4/12/1990 5/18/1990 6/19/1990 7/13/1990 8/20/1990 9/14/1990 10/12/1990 11/15/1990 12/18/1990 3/11/1991 4/18/1991 5/16/1991 6/13/1991

Site	4/12/1990	5/18/1990	6/19/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/18/1990	3/11/1991	4/18/1991	5/16/1991	6/13/1991
87-3	76.00	77.00	77.00	77.00	76.00	76.00	76.00	78.00	75.00	77.00	77.00	78.00	80.00
P1	0.28	0.30	0.29	0.31	0.30	0.26	0.28	0.30	0.18	0.25	0.28	0.31	0.31
P3	0.44	0.46	0.46	0.47	0.49	0.45	0.43	0.47	0.36	0.42	0.46	0.48	0.49
P4	0.63	0.68	0.65	0.69	0.68	0.61	0.64	0.67	0.56	0.62	0.64	0.68	0.68
P5	0.25	0.27	0.26	0.29	0.29	0.24	0.25	0.28	0.17	0.26	0.26	0.28	0.28

**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

**Date:** 7/19/1991 8/19/1991 9/12/1991 10/16/1991 11/15/1991 12/13/1991 1/17/1992 2/14/1992 3/13/1992 4/21/1992 5/15/1992 6/12/1992 7/17/1992 8/13/1992

<u>Site</u>	7/19/1991	8/19/1991	9/12/1991	10/16/1991	11/15/1991	12/13/1991	1/17/1992	2/14/1992	3/13/1992	4/21/1992	5/15/1992	6/12/1992	7/17/1992	8/13/1992
87-3	79.00	80.00	80.00	80.00	79.00	80.00	79.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
P1	0.33	0.32	0.29	0.30	0.30	0.29	0.33	0.36	0.33	0.42	0.36	0.36	0.36	0.37
P3	0.50	0.48	0.49	0.45	0.48	0.48	0.45	0.46	0.45	0.50	0.47	0.48	0.58	0.48
P4	0.70	0.68	0.66	0.68	0.67	0.65	0.62	0.66	0.63	0.73	0.66	0.67	0.68	0.68
P5	0.30	0.28	0.27	0.26	0.27	0.26	0.25	0.26	0.25	0.31	0.27	0.28	0.28	0.28

**Date:** 9/11/1992 10/16/1992 11/12/1992 12/10/1992 1/15/1993 2/12/1993 3/11/1993 4/15/1993 5/13/1993 6/14/1993 7/16/1993 8/11/1993 9/15/1993 10/19/1993

<u>Site</u>	9/11/1992	10/16/1992	11/12/1992	12/10/1992	1/15/1993	2/12/1993	3/11/1993	4/15/1993	5/13/1993	6/14/1993	7/16/1993	8/11/1993	9/15/1993	10/19/1993
87-3	78.00	80.00	75.00	85.00	83.00	85.00	86.00	86.00	85.00	86.00	88.00	88.00	90.00	85.00
P1	0.38	0.37	0.26	0.23	0.34	0.22	0.36	0.30	0.36	0.37	0.38	0.40	0.40	0.35
P3	0.46	0.47	0.38	0.45	0.46	0.44	0.48	0.44	0.50	0.51	0.50	0.50	0.54	0.48
P4	0.69	0.68	0.53	0.65	0.63	0.61	0.68	0.59	0.67	0.68	0.69	0.73	0.73	0.66
P5	0.28	0.24	0.18	0.24	0.25	0.23	0.26	0.19	0.26	0.29	0.28	0.30	0.31	0.25

**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

**Date:** 11/17/1993 12/17/1993 1/13/1994 2/15/1994 3/16/1994 4/13/1994 5/12/1994 6/14/1994 7/13/1994 8/12/1994 9/14/1994 10/18/1994 11/11/1994 12/16/1994

Site	11/17/1993	12/17/1993	1/13/1994	2/15/1994	3/16/1994	4/13/1994	5/12/1994	6/14/1994	7/13/1994	8/12/1994	9/14/1994	10/18/1994	11/11/1994	12/16/1994
87-3	89.00	89.00	88.00	88.00	86.00	86.00	85.00	90.00	90.00	90.00	88.00	89.00	90.00	85.00
P1	0.36	0.36	0.34	0.36	0.35	0.36	0.38	0.39	0.39	0.40	0.40	0.40	0.35	0.35
P3	0.48	0.50	0.46	0.49	0.48	0.48	0.50	0.51	0.53	0.51	0.52	0.50	0.48	0.48
P4	0.68	0.68	0.65	0.68	0.66	0.68	0.70	0.71	0.71	0.72	0.73	0.72	0.67	0.66
P5	0.26	0.26	0.25	0.26	0.25	0.26	0.27	0.30	0.30	0.31	0.31	0.31	0.26	0.25

**Date:** 1/13/1995 2/14/1995 3/17/1995 4/13/1995 5/15/1995 6/20/1995 7/13/1995 8/11/1995 9/14/1995 10/17/1995 11/17/1995 12/18/1995 1/16/1996 2/19/1996

Site	1/13/1995	2/14/1995	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995	12/18/1995	1/16/1996	2/19/1996
87-3	88.00	90.00	90.00	90.00	90.00	88.00	9.00	7.50	83.00	8.50	1.50	85.00	83.00	82.00
P1	0.42	0.37	0.35	0.32	0.36	0.40	0.40	0.38	0.36	0.36	0.05	0.33	0.32	0.33
P3	0.52	0.48	0.48	0.48	0.50	0.50	0.52	0.52	0.47	0.43	0.10	0.45	0.62	0.24
P4	0.74	0.66	0.66	0.66	0.68	0.70	0.72	0.66	0.67	0.68	0.24	0.63	0.60	0.60
P5	0.32	0.26	0.25	0.24	0.26	0.30	0.30	0.28	0.28	0.28	0.10	0.24	0.24	0.45

**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

**Date:** 3/19/1996 4/12/1996 5/16/1996 6/13/1996 7/16/1996 8/16/1996 9/13/1996 10/17/1996 11/19/1996 12/12/1996 1/20/1997 2/14/1997 3/13/1997 4/18/1997

<u>Site</u>	3/19/1996	4/12/1996	5/16/1996	6/13/1996	7/16/1996	8/16/1996	9/13/1996	10/17/1996	11/19/1996	12/12/1996	1/20/1997	2/14/1997	3/13/1997	4/18/1997
87-3	82.00	84.00	85.00	85.00	75.00	85.00	85.00	85.00	88.00	88.00	86.00	86.00	90.00	90.00
P1	0.34	0.36	0.39	0.39	0.38	0.40	0.36	0.36	0.36	0.35	0.35	0.34	0.36	0.35
P3	0.45	0.50	0.49	0.30	0.50	0.50	0.48	0.48	0.48	0.48	0.46	0.45	0.47	0.49
P4	0.65	0.66	0.70	0.71	0.70	0.73	0.66	0.68	0.68	0.66	0.66	0.64	0.58	0.66
P5	0.26	0.26	0.30	0.50	0.30	0.30	0.26	0.28	0.26	0.25	0.25	0.25	0.20	0.25

**Date:** 5/15/1997 6/19/1997 7/17/1997 8/14/1997 9/19/1997 10/17/1997 11/14/1997 12/16/1997 1/14/1998 2/16/1998 3/12/1998 4/22/1998 5/20/1998 6/16/1998

<u>Site</u>	5/15/1997	6/19/1997	7/17/1997	8/14/1997	9/19/1997	10/17/1997	11/14/1997	12/16/1997	1/14/1998	2/16/1998	3/12/1998	4/22/1998	5/20/1998	6/16/1998
87-3	90.00	90.00	90.00	85.00	85.00	85.00	88.00	86.00	85.00	87.00	90.00	85.00	88.00	90.00
P1	0.35	0.38	0.38	0.38	0.38	0.36	0.36	0.36	0.28	0.38	0.36	0.38	0.38	0.36
P3	0.50	0.51	0.50	0.52	0.52	0.50	0.48	0.46	0.40	0.48	0.46	0.49	0.52	0.51
P4	0.68	0.70	0.70	0.70	0.70	0.66	0.66	0.66	0.58	0.60	0.66	0.69	0.68	0.68
P5	0.26	0.29	0.28	0.28	0.30	0.26	0.25	0.27	0.20	0.21	0.25	0.28	0.27	0.29

General Motors  
 Grand Rapids Metal Fabrication Plants  
 VACUUM SUMMARY  
 (Pressure in Inches)

Date: 7/16/1998 8/19/1998 9/17/1998 10/14/1998 11/18/1998 12/16/1998 1/12/1999 2/16/1999 3/18/1999 4/12/1999 5/18/1999 6/15/1999 7/21/1999

Site	7/16/1998	8/19/1998	9/17/1998	10/14/1998	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999	6/15/1999	7/21/1999
87-3	90.00	90.00	85.00	80.00	60.00	85.00	85.00	85.00	90.00	85.00	90.00	90.00	90.00
P1	0.40	0.42	0.38	0.34	0.28	0.32	0.36	0.36	0.35	0.35	0.38	0.40	0.38
P3	0.52	0.52	0.29	0.46	0.36	0.42	0.52	0.46	0.46	0.46	0.51	0.52	0.53
P4	0.70	0.75	0.70	0.64	0.55	0.63	0.66	0.66	0.63	0.66	0.68	0.70	0.70
P5	0.30	0.32	0.54	0.26	0.22	0.23	0.26	0.26	0.34	0.25	0.28	0.30	0.30

Date: 8/17/1999 9/20/1999 10/19/1999 11/17/1999 12/16/1999 1/11/2000 2/15/2000 3/16/2000 4/19/2000 5/15/2000 6/13/2000 7/25/2000 8/23/2000

Site	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000
87-3	80.00	90.00	90.00	90.00	88.00	82.00	70.00	90.00	90.00	90.00	90.00	90.00	90.00
P1	0.40	0.36	0.36	0.24	0.36	0.35	0.32	0.34	0.40	0.35	0.37	0.40	0.38
P3	0.52	0.50	0.48	0.45	0.50	0.47	0.44	0.46	0.54	0.50	0.48	0.52	0.56
P4	0.72	0.68	0.66	0.62	0.68	0.65	0.58	0.64	0.72	0.66	0.26	0.70	0.70
P5	0.30	0.28	0.25	0.24	0.25	0.25	0.24	0.24	0.30	0.26	0.71	0.28	0.28

**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

Date:	9/22/2000	10/23/2000	11/16/2000	12/20/2000	1/18/2001	2/21/2001	3/21/2001	6/13/2001	8/22/2001	9/13/2001	10/9/2001	11/13/2001	12/19/2001	1/4/2002
<b>Site</b>														
87-3	90.00	90.00	17.00	90.00	90.00	90.00	90.00	92.00	90.00	90.00	92.00	94.00	92.00	15
P1	0.38	0.38	0.00	0.36	0.38	0.35	0.38	No Access	No Access	0.40	No Access	0.36	0.35	0.32
P3	0.52	0.51	0.10	0.60	0.50	0.50	0.48	0.48	0.56	0.55	0.48	0.48	0.46	0.49
P4	0.72	0.68	0.21	0.68	0.68	0.66	0.68	0.68	0.55	0.72	0.68	0.68	0.64	0.68
P5	0.29	0.28	0.07	0.25	0.26	0.24	0.27	0.27	0.15	0.30	0.26	0.26	0.22	0.22

Date:	2/6/2002	3/27/2002	4/3/2002	5/1/2002	6/12/2002	7/3/2002	8/14/2002	9/9/02	10/16/2002	11/27/2002	12/18/2002	1/29/2003	2/12/2003	3/19/2003
<b>Site</b>														
87-3	No Access	14	14	9	9.00	1.75	SD	SD	9.00	9.50	SD	9.00	9.50	SD
P1	0.39	0.38	0.40	0.31	0.40	No Access	SD	SD	No Access	0.34	SD	0.41	0.24	SD
P3	0.50	0.45	0.50	0.45	0.55	0.12	SD	SD	0.12	0.13	SD	0.11	0.11	SD
P4	0.70	0.69	0.70	0.15	0.70	0.24	SD	SD	0.23	No Access	SD	0.68	0.60	SD
P5	28 H <sub>2</sub> O"	0.28	0.28	0.30	0.30	0.10	SD	SD	0.23	0.24	SD	0.22	0.20	SD

Notes:

SD-System Down

**General Motors  
Grand Rapids Metal Fabrication Plants  
VACUUM SUMMARY  
(Pressure in Inches)**

**Date:** 7/14/2003 9/30/2003 12/17/2003 3/15/2004 10/4/2004 12/3/2004

<u>Site</u>	7/14/2003	9/30/2003	12/17/2003	3/15/2004	10/4/2004	12/3/2004
87-3	SD	SD	SD	SD	SD	SD
P1	SD	SD	SD	SD	SD	SD
P3	SD	SD	SD	SD	SD	SD
P4	SD	SD	SD	SD	SD	SD
P5	SD	SD	SD	SD	SD	SD

**Date:**

Site  
87-3  
P1  
P3  
P4  
P5

Notes:  
SD-System Down



**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** 85-7  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing - 678.69  
**DEPTH:** screen - 20.6 to 25.6

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/06/85	E58330	2 U	84	4	<2	--	--	<10
05/05/86	E62226	2 U	240	10	<2	--	--	<10
01/21/87	E70821	2 U	150	4	<2	--	--	<10
12/21/88	E11590	--	97	<2	--	--	--	--
03/17/89	E15517	--	70	1.2	--	--	--	--
06/15/89	E21115	--	45	<1	--	--	--	--
09/20/89	E25594	--	40	<1	--	--	--	--
12/21/89	E30989	--	29	<1	--	--	--	--
03/16/90	E35816	--	23	<1	--	--	--	--
06/18/90	E42010	--	21	<1	--	--	--	--
09/14/90	E48214	--	35	<1	--	--	--	--
12/17/90	E54814	--	21	<2	--	--	--	--
03/11/91	E59922	--	22	<1	--	--	--	--
06/13/91	E67558	--	34	<1	--	--	--	--
09/12/91	E72976	--	25	1	--	--	--	--
12/13/91	E07643	--	22	2	--	--	--	--
03/13/92	E15380	--	37	3	--	--	--	--
06/12/92	E23259	--	38	1.6	--	--	--	--
09/11/92	E31913	--	38	1.1	--	--	--	--
12/10/92	E40326	--	33	<1	--	--	--	--
03/11/93	E47623	--	23	<1	--	--	--	--
06/14/93	E56589	--	17	<1	--	--	--	--
09/15/93	E66025	--	21	<1	--	--	--	--
12/17/93	E75745	--	13	<1	--	--	--	--
03/16/94	E81239	--	12	<1	--	--	--	--
06/14/94	E89391	--	11	<1	--	--	--	--
09/14/94	E97442	--	12	<1	--	--	--	--
12/16/94	E106399	--	7	<1	--	--	--	--
03/17/95	E112947	--	6.8	<2	--	--	--	--
06/20/95	E120791	--	4.4	<2	--	--	--	--
09/14/95	E127380	--	3.1	<2	--	--	--	--
12/18/95	E134966	--	1.7	<1	--	--	--	--
03/19/96	E139837	--	1.8	<1	--	--	--	--
06/13/96	E146841	--	1.5	<1	--	--	--	--
09/13/96	E154124	--	2	<1	--	--	--	--
12/12/96	E161523	--	1.7	<1	--	--	--	--
03/13/97	E166207	--	<1	<1	--	--	--	--
06/19/97	E172379	--	<1	<1	--	--	--	--
09/11/97	E177742	--	1.4	<1	--	--	--	--
12/16/97	E184901	--	1.4	<1	--	--	--	--
03/12/98	E190814	--	<1	<1	--	--	--	--
06/16/98	82953-3397	--	<1	<2	--	--	--	--
09/17/98	84367-8364	--	<1	<1	--	--	--	--
12/16/98	85755-2520	--	<1	<1	--	--	--	--
03/10/99	90995-6091	--	<1	<1	--	--	--	--
06/15/99	3990294012	--	1.3	<2	--	--	--	--
09/20/99	3991971006	--	1.7	<1	--	--	--	--
12/16/99	3993622012	--	1.1	<1	--	--	--	--

-- = Not analyzed/measured

DCE = Dichloroethene

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: 85-7 ELEVATION: top of casing - 678.69  
 REVISION: 7/8/2009 DEPTH: screen - 20.6 to 25.6  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152009	--	<1	<1	--	--	--	--
06/13/00	3002633009	--	<1	<1	--	--	--	--
09/22/00	E261225	--	1.2	<1	--	--	--	--
12/20/00	E268212	--	1.5	<1	--	--	--	--
03/21/01	E274380	--	<1	<1	--	--	--	--
06/13/01	E281016	--	<1	<1	--	--	--	--
09/13/01	E287756	--	SS<1	SS<1	--	--	--	--
12/19/01	E295708	--	1.1	<1	--	--	--	--
03/28/02	U-032802-TJ-007	--	<1	<1	--	--	--	--
06/26/02	U-062602-JB-023	--	<1	<1	--	--	--	--
*6/26/02	U-062602-JB-024	--	<1	<1	--	--	--	--
09/26/02	U-092602-JB-054	--	<1	<1	--	--	--	--
12/09/02	U-120902-JB-074	--	<1	<1	--	--	--	--
*12/9/2002	U-120902-JB-075	--	<1	<1	<1	--	--	<1
03/21/03	U-032103-JB-095	--	1.1	--	--	<1	<1	--
07/15/03	U-071503-SP-055	1.0 U	0.79	--	<1	<1	<1	<1
*7/15/2003	U-071503-SP-056	1.0 U	0.88	--	<1	<1	<1	<1
10/02/03	U-100203-JB-086	1.0 U	0.93	--	<1	<1	<1	<1
*10/02/03	U-100203-JB-087	1.0 U	0.90	--	<1	<1	<1	<1
12/17/03	U-121703-JB-100	1.0 U	0.81	--	<1	<1	<1	<1
03/16/04	U-031604-BW-143	1.0 U	0.72	--	<1	<1	<1	<1
10/05/04	U-100504-DCR-257	1.0 U	0.77	--	<1	<1	<1	<1
12/01/04	U-120104-DCR-301	1.0 U	0.81	--	<1	<1	<1	<1
04/06/05	U-040605-DCR-353	1.0 U	0.78 J	--	<1	<1	<1	<1
06/28/05	U-062805-DCR-382	1.0 U	0.70 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/06/05	U-120605-DCR-571	1.0 U	0.50 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
12/06/05	U-120605-DCR-572	1.0 U	0.54 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	U-091206-JY-032	1.0 UJ	0.48 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	U-050907-JY-076	1.0 U	0.35 J	1 U	1 U	1 U	1 U	1 U
10/16/07	U-101607-DR-120	1.0 U	0.51 J	1 U	1 U	1 U	1 U	1 U
04/22/08	U-042208-DR-161	1.0 U	0.58 J	1 U	1 U	1 U	1 U	1 U
10/07/08	U-100708-DR-210	1 U	1	--	1 U	1 U	1 U	1 U
04/06/09	U-040609-DR-240	1U	1.3	--	1U			

DCE = Dichloroethene

-- = Not analyzed/measured

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride
05/05/86	E62228	55000	12	4	<10
01/23/87	E70823	90000	<200	<200	<1000
12/21/88	E11591	100000	<100	--	--

Note: Converted to purge well, see Aquazorb Carbon System Summary below for Influent results (03/15/89 to 06/30/92) and flow data.

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	Influent TCE	Total Flow Gallons
03/15/89	A02041	5400	262
03/20/89	A02136	9540	28824
03/30/89	--	--	48610
04/06/89	A02678	3040	93544
04/14/89	--	--	147039
04/21/89	A03274	2110	194249
05/05/89	A03702	2210	276839
05/22/89	A04239	1700	392315
06/09/89	A04811	1370	517629
06/23/89	--	--	614267
07/10/89	A05856	305	730872
07/28/89	--	--	857772
08/11/89	A07209	400	957223
08/22/89	--	--	1034854
09/14/89	A08208	1270	2324518
10/02/89	--	--	1422045
10/12/89	A9897	1460	--
10/25/89	--	--	1515795
11/08/89	A1455	500	161907
12/05/89	--	--	1846287
12/15/89	A2721	340	--
01/05/90	A3240	530	2690842
02/09/90	A4264	780	2925077
03/07/90	A4994	1600	3096307
03/07/90	--	--	3096307
04/04/90	A6115	1100	3298682
05/03/90	A7185	900	3422570
06/04/90	A8773	700	3637224
07/05/90	A09823	1000	3637639
08/03/90	--	--	4276027
08/08/90	A01183	1300	4309227
09/11/90	A02894	1000	4334802
10/02/90	H3932	1300	4678358

-- = Not analyzed/measured

DCE = Dichloroethene

TCE = Trichloroethene

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	Influent TCE	Total Flow Gallons
11/09/90	H5793	1000	4687251
12/03/90	H6984	740	4838633
12/07/90	--	--	4861635
01/14/91	A0571	70	5049924
03/05/91	A2696	890	5340851
03/26/91	--	--	5460294
06/06/91	A6491	930	5849972
09/03/91	A9014	1000	6322915
09/26/91	--	--	6521221
12/02/91	--	--	7357351
01/06/92	A0210	660	8067437
03/10/92	A04437	410	9034727
06/30/92	A00262	184	--

Note: In July, 1993, the Aquazorb Carbon System was removed and groundwater began to be discharged to the city sanitary sewer. In July, 1994, purge well 86-2 was connected to a carbon treatment system which discharges to the storm drain via a NPDES permit.

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
07/17/92	E26666	--	600	--	--	--	--
08/13/92	E29155	--	500	--	--	--	427800
09/11/92	E31912	--	470	<1	--	--	362300
10/16/92	E35368	--	650	--	--	--	548500
11/12/92	E37805	--	360	--	--	--	480800
12/10/92	E40325	--	410	<5	--	--	379800
01/15/93	E43370	--	500	--	--	--	379800
02/12/93	E45487	--	420	--	--	--	409500
03/11/93	E47622	--	320	<10	--	--	593000
04/15/93	E50676	--	360	--	--	--	477600
05/13/93	E53156	--	300	--	--	--	575700
06/14/93	E57771	--	210	<10	--	--	532600
07/16/93	E60030	--	240	--	--	--	503000
08/11/93	E62711	--	200	--	--	--	616500
09/15/93	E66022	--	180	<10	--	--	478400
10/19/93	E69404	--	210	--	--	--	485300
11/17/93	E72554	--	180	--	--	--	569000
12/17/93	E75744	--	130	<5	--	--	458700
01/13/94	E77457	--	150	--	--	--	595000
03/16/94	E81235	--	120	<10	--	--	471900
04/13/94	E83746	--	95	--	--	--	586300
05/06/94	E86251	--	79	--	--	--	555600
06/14/94	E89387	--	70	<2	--	--	253600
08/10/94	--	--	--	--	--	--	594300

-- = Not analyzed/measured

DCE = Dichloroethene

TCE = Trichloroethene

# = Date reflects sampling day; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
09/07/94	--	--	--	--	--	--	343500
09/15/94	E97618	--	68	<5	--	--	--
10/05/94	--	--	--	--	--	--	263200
11/09/94	--	--	--	--	--	--	510300
12/07/94	--	--	--	--	--	--	387700
12/16/94	E106395	--	27	<1	--	--	--
01/04/95	--	--	--	--	--	--	231200
02/08/95	--	--	--	--	--	--	518100
03/08/95	--	--	--	--	--	--	429500
03/17/95	E112955	--	17	<2	--	--	--
04/05/95	--	--	--	--	--	--	455100
05/03/95	--	--	--	--	--	--	407600
06/07/95	--	--	--	--	--	--	580100
06/20/95	E120800	--	13	<2	--	--	--
07/05/95	--	--	--	--	--	--	397900
08/03/95	--	--	--	--	--	--	482600
09/07/95	--	--	--	--	--	--	584800
09/14/95	E127379	--	6.6	<2	--	--	--
10/04/95	--	--	--	--	--	--	449400
11/01/95	--	--	--	--	--	--	461500
12/06/95	--	--	--	--	--	--	555800
12/19/95	E134974	--	7.3	<1	--	--	--
01/03/96	--	--	--	--	--	--	452600
02/07/96	--	--	--	--	--	--	480600
03/06/96	--	--	--	--	--	--	356500
03/19/96	E139842	--	8.5	<1	--	--	--
04/03/96	--	--	--	--	--	--	368500
05/01/96	--	--	--	--	--	--	396900
06/05/96	--	--	--	--	--	--	443300
06/13/96	E146839	--	9.3	<1	--	--	--
06/26/96	--	--	--	--	--	--	399300
07/31/96	--	--	--	--	--	--	504900
09/04/96	--	--	--	--	--	--	486900
09/13/96	E154122	--	8.1	<1	--	--	--
10/02/96	--	--	--	--	--	--	386500
10/30/96	--	--	--	--	--	--	396800
12/04/96	--	--	--	--	--	--	357100
12/12/96	E161520	--	8.4	<1	--	--	--
12/31/96	--	--	--	--	--	--	268800
01/29/97	--	--	--	--	--	--	357900
02/26/97	--	--	--	--	--	--	332400
03/13/97	E166216	--	5.2	<1	--	--	--
03/26/97	--	--	--	--	--	--	317200
04/30/97	--	--	--	--	--	--	326200
05/28/97	--	--	--	--	--	--	280200

-- = Not analyzed/measured      DCE = Dichloroethene      TCE = Trichloroethene  
# = Date reflects sampling day; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
06/19/97	E172377	--	6	<1	--	--	--
07/02/97	--	--	--	--	--	--	360300
08/06/97	--	--	--	--	--	--	372000
09/04/97	--	--	--	--	--	--	295900
09/11/97	E177739	--	5.6	<1	--	--	--
10/01/97	--	--	--	--	--	--	227100
11/05/97	--	--	--	--	--	--	167900
12/03/97	--	--	--	--	--	--	171200
12/16/97	E184899	--	5.2	<1	--	--	--
12/31/97	--	--	--	--	--	--	176000
01/28/98	--	--	--	--	--	--	108080
02/25/98	--	--	--	--	--	--	149600
03/12/98	E190827	--	3.4	<1	--	--	--
03/26/98	--	--	--	--	--	--	148500
04/29/98	--	--	--	--	--	--	139400
05/27/98	--	--	--	--	--	--	143750
06/16/98	82953-3395	--	5	<2	--	--	--
07/01/98	--	--	--	--	--	--	277150
07/29/98	--	--	--	--	--	--	181300
09/02/98	--	--	--	--	--	--	316800
09/17/98	84367-8358	--	4	<1	--	--	--
09/30/98	--	--	--	--	--	--	213000
10/28/98	--	--	--	--	--	--	211800
12/02/98	--	--	--	--	--	--	224900
12/16/98	85755-2516	--	5	<1	--	--	--
12/31/98	--	--	--	--	--	--	206100
01/27/99	--	--	--	--	--	--	105900
02/24/99	--	--	--	--	--	--	0
03/18/99	91113-6522	--	5	<1	--	--	--
03/24/99	--	--	--	--	--	--	138600
04/29/99	--	--	--	--	--	--	586700
06/01/99	--	--	--	--	--	--	547000
06/15/99	3990294008	--	8.1	<2	--	--	--
06/30/99	--	--	--	--	--	--	590800
07/28/99	--	--	--	--	--	--	568700
09/01/99	--	--	--	--	--	--	703400
09/20/99	3991971004	--	9.8	<1	--	--	--
09/29/99	--	--	--	--	--	--	569700
11/03/99	--	--	--	--	--	--	692800
12/01/99	--	--	--	--	--	--	482200
12/16/99	3993622008	--	7.4	<1	--	--	692800
12/29/99	--	--	--	--	--	--	300500
02/02/00	--	--	--	--	--	--	568500
03/01/00	--	--	--	--	--	--	563600
03/16/00	3001152004	--	7.8	<1	--	--	--
03/29/00	--	--	--	--	--	--	546900

-- = Not analyzed/measured      DCE = Dichloroethene      TCE = Trichloroethene  
# = Date reflects sampling day; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 86-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
04/25/00	--	--	--	--	--	--	535800
05/31/00	--	--	--	--	--	--	699000
06/13/00	3002633007	--	6	<1	--	--	--
06/28/00	--	--	--	--	--	--	562100
07/26/00	--	--	--	--	--	--	571400
08/30/00	--	--	--	--	--	--	695600
09/22/00	E261218	--	8.4	<1	--	--	--
11/01/00	--	--	--	--	--	--	261900
11/29/00	--	--	--	--	--	--	19300
12/20/00	E268210	--	10	<1	--	--	--
01/03/01	--	--	--	--	--	--	433400
02/26/01	--	--	--	--	--	--	400300
03/21/01	E274374	--	7.4	<1	--	--	--
03/28/01	--	--	--	--	--	--	457100
04/24/01	--	--	--	--	--	--	421200
05/30/01	--	--	--	--	--	--	206700
06/13/01	E281014	--	6.6	<1	--	--	--
06/25/01	--	--	--	--	--	--	327930
07/16/01	--	--	--	--	--	--	517670
08/22/01	--	--	--	--	--	--	417700
09/13/01	E287754	--	6.6	<1	--	--	410900
10/09/01	--	--	--	--	--	--	212300
11/13/01	--	--	--	--	--	--	394600
12/19/01	E295715	--	3.4	<1	--	--	388100
03/28/02	<sup>UJ</sup> -032802-TJ-004	--	5.5	<1	--	--	--
06/27/02	<sup>UJ</sup> -062702-JB-041	--	3.1	<1	--	--	--
09/26/02	<sup>UJ</sup> -092602-JB-050	--	3.8	<1	--	--	--
12/09/02	<sup>UJ</sup> -120902-JB-069	--	4.1	<1	--	--	--
03/21/03	<sup>UJ</sup> -032103-JB-094	--	3.9	--	<1	<1	--
07/15/03	<sup>UJ</sup> -071503-SP-063	1.0 U	3.3	--	<1	<1	--
10/07/03	<sup>UJ</sup> -100703-JB-095	1.0 U	3.8	--	<1	<1	--
12/17/03	<sup>UJ</sup> -121703-JB-094	1.0 U	4.7	--	0.36	<1	--
03/16/04	<sup>UJ</sup> -031604-BW-142	1.0 U	3.1	--	<1	<1	--
10/06/04	<sup>UJ</sup> -100604-DCR-272	1.0 U	4.1	--	<1	<1	--
12/02/04	<sup>UJ</sup> -120204-DCR-314	1.0 U	4.2	--	<1	<1	--
06/29/05	<sup>UJ</sup> -062905-DCR-402	1.0 U	10	--	1.0 U	1.0 U	--
12/05/05	<sup>UJ</sup> -091306-DR-047	1.0 UJ	2.7	--	1.0 U	1.0 U	--
09/13/06	<sup>UJ</sup> -120505-DCR-568	1.0 UJ	2.8	--	1.0 U	1.0 U	--
05/10/07	<sup>(1)</sup> -051007-JY-091	1.0 UJ	4.4	1.0 U	0.28 J	1.0 U	--
10/17/07	<sup>(1)</sup> -101707-DR-133	1.0 U	4.5	1.0 U	0.37 J	1.0 U	--
04/22/08	<sup>(1)</sup> -042208-DR-168	1.0 U	4.8	1.0 U	1.0 U	1.0 U	--
10/07/08	<sup>(1)</sup> -100708-DR-215	1.0 U	5.8	--	1.0 U	1.0 U	--
04/08/09	<sup>UJ</sup> -040809-DR-264	1.0 U	6.4	--	1.0 U	1.0 U	--

-- = Not analyzed/measured                      DCE = Dichloroethene  
# = Date reflects sampling day; whereas total gallonage covers entire month.

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary Analytical Data**

SITE: 86-3 ELEVATION: top of casing - 676.51  
 REVISION: 7/8/2009 DEPTH: screen - 41.5 to 46.5  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
05/05/86	E62229	10 U	1400	10	<10	--	--	<50
01/21/87	E70824	2 U	340	4	<2	--	--	<10
06/08/88	E91243	2 U	170	10	<2	--	--	<10
12/21/88	E11592	--	630	<20	--	--	--	--
03/16/89	E15518	--	380	<10	--	--	--	--
06/15/89	E21116	--	150	<1	--	--	--	--
09/20/89	E25595	--	130	7	--	--	--	--
12/21/89	E30997	--	430	15	<10	--	--	<10
03/16/90	E35817	--	440	<10	--	--	--	--
06/18/90	E42011	--	240	<10	--	--	--	--
09/14/90	E48215	--	210	4	--	--	--	--
12/17/90	E54822	--	150	4	<4	--	--	<20
03/11/91	E59923	--	94	<2	--	--	--	--
06/13/91	E67555	--	56	2	--	--	--	--
09/13/91	E72977	--	58	11	--	--	--	--
12/13/91	E07651	--	73	13	<2	--	--	<2
03/13/92	E15388	--	99	19	--	--	--	--
06/12/92	E23261	--	140	8.6	--	--	--	--
09/11/92	E31916	--	88	6.4	--	--	--	--
12/10/92	E40332	--	110	3	<1	--	--	<1
03/11/93	E47625	--	72	<2	--	--	--	--
06/15/93	E56583	--	70	3	--	--	--	--
09/15/93	E66047	--	**	**	--	--	--	--
10/19/93	E69399	--	40	1.8	--	--	--	--
12/17/93	E75751	--	46	9.1	<2	--	--	<2
03/16/94	E81241	--	57	3.4	--	--	--	--
06/14/94	E89393	--	53	2.1	--	--	--	--
09/14/94	E97440	--	44	1.0	--	--	--	--
12/16/94	E106407	--	32	<1	<1	--	--	<1
03/17/95	E112959	--	27	2.4	--	--	--	--
06/20/95	E120795	--	31	<2	--	--	--	--
09/14/95	E127390	--	24	<2	--	--	--	--
12/18/95	E134976	--	16	<1	<1	--	--	<1
03/19/96	E139846	--	10	<1	--	--	--	--
06/13/96	E146843	--	15	<1	--	--	--	--
09/13/96	E154127	--	21	<1	--	--	--	--
12/13/96	E161534	--	10	<1	<1	--	--	<1
03/13/97	E166219	--	11	<1	--	--	--	--
06/19/97	E172385	--	16	<1	--	--	--	--
09/11/97	E177752	--	14	<1	--	--	--	--
12/16/97	E184905	--	11	1.2	<1	--	--	<1
03/12/98	E190817	--	5.2	<1	--	--	--	--
06/16/98	82953-3400	--	9	<2	--	--	--	--
09/17/98	84367-8370	--	4	<1	--	--	--	--
12/16/98	85755-2525	--	4	<1	<1	--	--	<1
03/10/99	90995-6095	--	4	<1	--	--	--	--
06/15/99	3990294016	--	4.6	<2	--	--	--	--
09/20/99	3991971012	--	4.8	<1	--	--	--	--
12/16/99	3993622010	--	3	<1	<1	--	--	<1

-- = Not analyzed/measured DCE = Dichloroethene  
 \*\* = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary Analytical Data**

**SITE:** 86-3 **ELEVATION:** top of casing - 676.51  
**REVISION:** 7/8/2009 **DEPTH:** screen - 41.5 to 46.5  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152013	--	2.4	<1	--	--	--	--
06/13/00	3002633014	--	1.7	<1	--	--	--	--
09/22/00	E261233	--	3.4	<1	--	--	--	--
12/20/00	E268215	--	3.9	<1	<1	--	--	<1
03/21/01	E274391	--	3.9	<1	--	--	--	--
06/14/01	E281021	--	5.2	<1	--	--	--	--
09/13/01	E287759	--	5.7	<1	--	--	--	--
12/19/01	E295712	--	5.3	<1	<1	--	--	<1
03/28/02	<sup>(1)</sup> -032802-TJ-013	--	8.7	1.8	--	--	--	--
06/26/02	<sup>(1)</sup> -062602-JB-026	--	1.2	<1	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-059	--	1.9	<1	--	--	--	--
01/06/03	<sup>(1)</sup> -010603-JB-088	--	5.2	<1	<1	--	--	<1
03/21/03	<sup>(1)</sup> -032103-JB-097	--	4.7	--	--	<1	<1	--
07/14/03	<sup>(1)</sup> -071403-SP-053	1.0 U	4.3	--	<1	<1	<1	<1
09/30/03	<sup>(1)</sup> -093003-JB-073	1.0 U	2.2	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-104	1.0 U	2.1	--	<1	<1	<1	<1
03/15/04	<sup>(1)</sup> -031504-BW-132	1.0 U	1.4	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-253	1.0 U	2.0	--	<1	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-298	1.0 U	1.0	--	<1	<1	<1	<1
04/05/05	<sup>(1)</sup> -040505-DCR-341	1.0 U	0.89 J	--	<1	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-378	1.0 U	1.1	--	1.0 U	1.0 U	1.0 U	1.0 U
12/03/05	<sup>(1)</sup> -120305-DCR-554	1.0 U	0.68 J	--	1.0 U	1.0 U	1.0 UJ	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-028	1.0 UJ	1.8	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-074	1.0 U	4.6	1.0 U	1.0 U	0.72 J	0.25 J	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-115	1.0 U	5.4	1.0 U	0.23 J	1.1	0.35 J	1.0 U
04/23/08	<sup>(1)</sup> -042308-DR-182	1.0 U	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-206	1.0 U	3.9	--	1.0 U	0.76 J	0.2 J	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-255	1.0 U	4.5	--	1.0 U	2.5	0.38 J	0.25 J

-- = Not analyzed/measured DCE = Dichloroethene  
 \*\* = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.  
<sup>(1)</sup> Full sample number includes GW-17360

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 87-1 **ELEVATION:** top of casing - 681.15  
**REVISION:** 7/8/2009 **DEPTH:** screen - 24.0 to 29.0  
**UNITS:** ug/L 8.5 to 19.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70825	10 U	1200	16	<10	--	--	<50
12/21/88	E11593	--	540	8	--	--	--	--
03/16/89	E15519	--	380	14	--	--	--	--
06/16/89	E21117	--	140	15	--	--	--	--
09/20/89	E25596	--	180	15	--	--	--	--
12/21/89	E30990	--	170	22	--	--	--	--
03/16/90	E35818	--	230	66	--	--	--	--
06/18/90	E42012	--	370	60	--	--	--	--
09/14/90	E48216	--	300	58	--	--	--	--
12/18/90	E54815	--	260	47	--	--	--	--
03/11/91	E59925	--	200	<10	--	--	--	--
06/13/91	E67553	--	180	43	--	--	--	--
09/12/91	E72978	--	170	55	--	--	--	--
12/13/91	E07644	--	180	40	--	--	--	--
03/13/92	E15381	--	230	50	--	--	--	--
06/12/92	E23255	--	200	37	--	--	--	--
09/11/92	E31911	--	190	36	--	--	--	--
12/10/92	E40323	--	200	21	--	--	--	--
03/11/93	E47621	--	140	20	--	--	--	--
06/14/93	E56588	--	130	22	--	--	--	--
09/15/93	E66023	--	170	24	--	--	--	--
12/17/93	E75742	--	140	23	--	--	--	--
03/16/94	E81234	--	200	23	--	--	--	--
06/14/94	E89386	--	200	25	--	--	--	--
09/14/94	E97443	--	190	15	--	--	--	--
12/16/94	E106394	--	170	22	--	--	--	--
03/17/95	E112954	--	180	21	--	--	--	--
06/20/95	E120786	--	230	<20	--	--	--	--
09/14/95	E127382	--	170	17	--	--	--	--
12/19/95	E134972	--	170	17	--	--	--	--
03/19/96	E139838	--	180	19	--	--	--	--
06/13/96	E146838	--	170	23	--	--	--	--
09/13/96	E154120	--	170	27	--	--	--	--
12/12/96	E161522	--	150	36	--	--	--	--
03/13/97	E166218	--	170	52	--	--	--	--
06/19/97	E172376	--	170	50	--	--	--	--
09/11/97	E177736	--	180	55	--	--	--	--
12/16/97	E184898	--	170	55	--	--	--	--
03/12/98	E190812	--	200	46	--	--	--	--
06/16/98	82953-3391	--	29	<2	--	--	--	--
09/17/98	84367-8353	--	D42	1	--	--	--	--
12/16/98	85755-2515	--	D56	D<5	--	--	--	--
03/10/99	90995-6089	--	D75	D<5	--	--	--	--
06/15/99	3990294006	--	D68	D<10	--	--	--	--
09/20/99	3991971003	--	D72	D15	--	--	--	--
12/16/99	3993622014	--	72	D17	--	--	--	--

-- = Not analyzed DCE = Dichloroethene  
D = Compound identified in an analysis at a secondary dilution factor.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: 87-1 ELEVATION: top of casing - 681.15  
 REVISION: 7/8/2009 DEPTH: screen - 24.0 to 29.0  
 UNITS: ug/L 8.5 to 19.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152005	--	D79	D27	--	--	--	--
06/13/00	3002633006	--	D60	D31	--	--	--	--
09/22/00	E261217	--	78	43	--	--	--	--
12/20/00	E268205	--	100	58	--	--	--	--
03/21/01	E274378	--	120	65	--	--	--	--
06/13/01	E281013	--	140	52	--	--	--	--
09/13/01	E287753	--	140	41	--	--	--	--
12/19/01	E295706	--	110	78	--	--	--	--
03/28/02	<sup>(1)</sup> -032802-TJ-006	--	120	73.9	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-040	--	110	95.5	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-051	--	82	85.7	--	--	--	--
*9/26/02	<sup>(1)</sup> -092602-JB-052	--	78	85.7	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-068	--	93	69.9	--	--	--	--
03/21/03	<sup>(1)</sup> -032103-JB-091	--	40	--	--	57	3.2	--
07/15/03	<sup>(1)</sup> -071503-SP-061	2.5 U	55	--	2.4	50	3.3	7.2
10/02/03	<sup>(1)</sup> -100203-JB-083	3.3 U	1.9	--	3.4	100	8.3	5.1
12/17/03	<sup>(1)</sup> -121703-JB-093	2.5 U	76	--	3.0	40	6.7	5.2
03/16/04	<sup>(1)</sup> -031604-BW-139	2.0 U	30	--	2.2	52	5.3	7.9
10/06/04	<sup>(1)</sup> -100604-DCR-269	2.0 U	27	--	2.7	56	6.8	12
12/02/04	<sup>(1)</sup> -120204-DCR-310	1.4 U	39	--	2.1	39	5.7	5.5
04/06/05	<sup>(1)</sup> -040605-DCR-359	1.4 U	47	--	2.5	<1	7.3	9.0
06/29/05	<sup>(1)</sup> -062905-DCR-403	1.7 U	28	--	1.9	49	7.3	12 J
12/05/05	<sup>(1)</sup> -120505-DCR-565	1.0 UJ	37	--	2.1	37 J	7.8	14
09/13/06	<sup>(1)</sup> -091306-DR-045	1.0 UJ	30	--	1.2	30	3.8	13
05/10/07	<sup>(1)</sup> -051007-JY-093	1.0 UJ	15	1.0 U	1.0 U	16	0.66 J	16
10/17/07	<sup>(1)</sup> -101707-DR-136	1.0 UJ	1.2	1.0 U	1.5	19	1.2	17
04/22/08	<sup>(1)</sup> -042208-DR-169	1.0 UJ	1.4	1.0 U	1.1	30	7	15
10/07/08	<sup>(1)</sup> -100708-DR-219	1.0 U	17	--	0.78 J	21	3.8	15
04/08/09	<sup>(1)</sup> -040809-DR-266	1.0 U	12	--	0.5 J	15	2.4	16
* 04/08/09	<sup>(1)</sup> -040809-DR-267	1.0 U	12	--	0.55 J	15	2.5	17

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: 87-2 ELEVATION: top of casing - 681.16  
 REVISION: 7/8/2009 DEPTH: screen - 33.2 to 38.2  
 UNITS: ug/L 7.5 to 18.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70826	2.0 U	65	12	<2	--	--	<10
12/21/88	E11594	--	72	15	--	--	--	--
03/16/89	E15520	--	50	16	--	--	--	--
06/15/89	E21118	--	51	15	--	--	--	--
09/20/89	E25597	--	57	15	--	--	--	--
12/21/89	E30991	--	37	10	--	--	--	--
03/16/90	E35819	--	63	17	--	--	--	--
06/18/90	E42013	--	65	17	--	--	--	--
09/14/90	E48217	--	71	18	--	--	--	--
12/17/90	E54816	--	49	13	--	--	--	--
03/11/91	E59926	--	45	1	--	--	--	--
06/13/91	E67554	--	44	11	--	--	--	--
09/12/91	E72979	--	42	13	--	--	--	--
12/13/91	E07645	--	37	6	--	--	--	--
03/13/92	E15382	--	39	10	--	--	--	--
06/12/92	E23257	--	35	6.7	--	--	--	--
09/11/92	E31909	--	33	19	--	--	--	--
12/10/92	E40321	--	36	6	--	--	--	--
03/11/93	E47620	--	37	8.7	--	--	--	--
06/14/93	E56585	--	39	14	--	--	--	--
09/15/93	E66020	--	57	19	--	--	--	--
12/17/93	E75740	--	42	11	--	--	--	--
03/16/94	E81237	--	45	15	--	--	--	--
06/14/94	E89388	--	50	16	--	--	--	--
09/14/94	E97444	--	37	12	--	--	--	--
12/16/94	E106396	--	46	15	--	--	--	--
03/17/95	E112952	--	54	19	--	--	--	--
06/20/95	E120789	--	36	16	--	--	--	--
09/14/95	E127394	--	41	21.7	--	--	--	--
12/19/95	E134971	--	39	22	--	--	--	--
03/19/96	E139840	--	46	27	--	--	--	--
06/13/96	E146836	--	52	29	--	--	--	--
09/13/96	E154121	--	52	30	--	--	--	--
12/12/96	E161519	--	48	30	--	--	--	--
03/13/97	E166214	--	45	27	--	--	--	--
06/19/97	E172374	--	55	31	--	--	--	--
09/11/97	E177737	--	52	27	--	--	--	--
12/16/97	E184897	--	51	27	--	--	--	--
03/12/98	E190811	--	61	31	--	--	--	--
06/16/98	82953-3390	--	30	12	--	--	--	--
09/17/98	84367-8354	--	D41	D10	--	--	--	--
12/16/98	85755-2513	--	D44	D12	--	--	--	--
03/10/99	90995-6087	--	D49	D11	--	--	--	--
06/15/99	3990294002	--	D57	D13	--	--	--	--
09/20/99	3991971002	--	D64	D13	--	--	--	--
12/16/99	3993622003	--	51	D15	--	--	--	--

-- = Not analyzed DCE = Dichloroethene  
 D = Compound identified in an analysis at a secondary dilution factor.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: 87-2 ELEVATION: top of casing - 681.16  
 REVISION: 7/8/2009 DEPTH: screen - 33.2 to 38.2  
 UNITS: ug/L 7.5 to 18.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152002	--	D53	D12	--	--	--	--
06/13/00	3002633002	--	D42	D16	--	--	--	--
09/22/00	E261219	--	49	19	--	--	--	--
12/20/00	E268206	--	56	22	--	--	--	--
03/21/01	E274373	--	46	18	--	--	--	--
06/13/01	E281012	--	42	17	--	--	--	--
09/13/01	E287752	--	SS 48	SS 12	--	--	--	--
12/19/01	E295705	--	38	16	--	--	--	--
03/28/02	<sup>(1)</sup> -032802-TJ-002	--	42	28.7	--	--	--	--
*3/28/2002	<sup>(1)</sup> -032802-TJ-003	--	41	28.6	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-039	--	15	39.1	--	--	--	--
*6/27/02	<sup>(1)</sup> -062702-JB-038	--	14	40.1	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-053	--	43	21.2	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-070	--	41	28.2	--	--	--	--
03/21/03	<sup>(1)</sup> -032103-JB-092	--	35	--	--	23	3.5	--
07/15/03	<sup>(1)</sup> -071503-SP-062	1.0 U	26	--	<1	23	2.4	<1
10/02/03	<sup>(1)</sup> -100203-JB-085	1.4 U	8.5	--	<1.4	41	2.6	<1.4
12/17/03	<sup>(1)</sup> -121703-JB-095	1.0 U	35	--	<1.0	23	3.1	<1.0
*12/17/03	<sup>(1)</sup> -121703-JB-097	1.0 U	33	--	<1.0	23	2.9	<1.0
03/16/04	<sup>(1)</sup> -031604-BW-141	1.0 U	25	--	<1.0	21	2.7	<1.0
10/06/04	<sup>(1)</sup> -100604-DCR-273	1.4 U	7.7	--	<1.0	33	2.3	1.9
12/02/04	<sup>(1)</sup> -120204-DCR-313	1.0 U	24	--	<1.0	21	2.4	1.2
04/06/05	<sup>(1)</sup> -040605-DCR-363	1.0 U	29	--	<1.0	22	2.8	2.6
06/29/05	<sup>(1)</sup> -062905-DCR-404	1.0 U	2.3	--	1.0 U	33	2.7	9.7 J
12/05/05	<sup>(1)</sup> -120505-DCR-569	1.0 UJ	13	--	1.0 U	24	2.7	7.6
09/13/06	<sup>(1)</sup> -091306-DR-048	1.0 UJ	20	--	1.0 U	21	3.6	7.8
05/10/07	<sup>(1)</sup> -051007-JY-092	1.0 UJ	22	1.0 U	1.0 U	20	3.7	7.9
10/17/07	<sup>(1)</sup> -101707-DR-135	1.0 U	5.7	1.0 U	1.0 U	19	3.1	19
04/22/08	<sup>(1)</sup> -042208-DR-170	1.0 U	13	1.0 U	1.0 U	17	3.7	14
10/07/08	<sup>(1)</sup> -100708-DR-214	1.0 U	12	--	1.0 U	20	3.9	14
04/08/09	<sup>(1)</sup> -040809-DR-265	1.0 U	14	--	1.0 U	17	3.8	12

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: 87-4  
 REVISION: 7/8/2009  
 UNITS: ug/L

ELEVATION: top of casing - 681.11  
 DEPTH: screen - 8.5 to 19.5  
 24.0 to 27.0

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70827	2.0 U	87	<2	<2	--	--	<10
12/21/88	E11595	--	42	<2	--	--	--	--
03/17/89	E15521	--	32	<1	--	--	--	--
06/15/89	E21119	--	20	<1	--	--	--	--
09/20/89	E25598	--	21	<1	--	--	--	--
12/21/89	E30992	--	19	<1	--	--	--	--
03/16/90	E35820	--	18	<1	--	--	--	--
06/18/90	E42014	--	17	<1	--	--	--	--
09/14/90	E48218	--	9	<1	--	--	--	--
12/17/90	E54817	--	4	<2	--	--	--	--
03/11/91	E59927	--	3	<1	--	--	--	--
06/13/91	E67556	--	2	<1	--	--	--	--
09/12/91	E72980	--	2	<1	--	--	--	--
12/13/91	E07646	--	1	<1	--	--	--	--
03/13/92	E15384	--	2	<1	--	--	--	--
06/12/92	E23258	--	1.1	<1	--	--	--	--
09/11/92	E31910	--	1	7.7	--	--	--	--
12/10/92	E40322	--	<1	<1	--	--	--	--
03/11/93	E47619	--	<1	<1	--	--	--	--
06/14/93	E56586	--	1.1	<1	--	--	--	--
09/15/93	E66021	--	<1	<1	--	--	--	--
12/17/93	E75741	--	<1	<1	--	--	--	--
03/16/94	E81238	--	<1	<1	--	--	--	--
06/14/94	E89389	--	<1	<1	--	--	--	--
09/14/94	E97445	--	<1	<1	--	--	--	--
12/16/94	E106397	--	<1	<1	--	--	--	--
03/17/95	E112953	--	<1	<2	--	--	--	--
06/20/95	E120790	--	<1	<2	--	--	--	--
09/14/95	E127378	--	<1	<2	--	--	--	--
12/19/95	E134970	--	<1	<1	--	--	--	--
03/19/96	E139841	--	<1	<1	--	--	--	--
06/13/96	E146835	--	<1	<1	--	--	--	--
09/13/96	E154119	--	1.2	<1	--	--	--	--
12/12/96	E161518	--	<1	<1	--	--	--	--
03/13/97	E166213	--	<1	<1	--	--	--	--
06/19/97	E172373	--	<1	<1	--	--	--	--
09/11/97	E177738	--	1	<1	--	--	--	--
12/16/97	E184896	--	<1	<1	--	--	--	--
03/12/98	E190810	--	<1	<1	--	--	--	--
06/16/98	82953-3389	--	<1	<2	--	--	--	--
09/17/98	84367-8360	--	<1	<1	--	--	--	--
12/16/98	85755-2512	--	<1	<1	--	--	--	--
03/10/99	90995-6088	--	<1	<1	--	--	--	--
06/15/99	3990294001	--	<1	<2	--	--	--	--
09/20/99	3991971001	--	1.1	<1	--	--	--	--
12/16/99	3993622002	--	<1	<1	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-4  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing - 681.11  
DEPTH: screen - 8.5 to 19.5  
24.0 to 27.0

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152001	--	<1	<1	--	--	--	--
06/13/00	3002633001	--	<1	<1	--	--	--	--
09/22/00	E261220	--	<1	<1	--	--	--	--
12/20/00	E268204	--	<1	<1	--	--	--	--
03/21/01	E274372	--	<1	<1	--	--	--	--
06/13/01	E281011	--	<1	<1	--	--	--	--
09/13/01	E287751	--	SS<1	SS<1	--	--	--	--
12/19/01	E295704	--	SS<1	SS<1	--	--	--	--
03/28/02	<sup>(1)</sup> -032802-TJ-001	--	<1	<1	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-036	--	<1	<1	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-049	--	<1	<1	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-066	--	<1	<1	--	--	--	--
03/21/03	<sup>(1)</sup> -032103-JB-090	--	<1	<1	--	<1	<1	--
07/15/03	<sup>(1)</sup> -071503-SP-059	1.0 U	<1	--	<1	<1	<1	<1
10/07/03	<sup>(1)</sup> -100703-JB-094	1.0 U	3.7	--	<1	<1	<1	<1
12/17/03	<sup>(1)</sup> -121703-JB-091	1.0 U	0.41	--	<1	<1	<1	<1
03/16/04	<sup>(1)</sup> -031604-BW-137	1.0 U	<1	--	<1	<1	<1	<1
*03/16/04	<sup>(1)</sup> -031604-BW-138	1.0 U	<1	--	<1	<1	<1	<1
10/06/04	<sup>(1)</sup> -100604-DCR-270	1.0 U	0.41	--	<1	<1	<1	<1
12/02/04	<sup>(1)</sup> -120204-DCR-307	1.0 U	0.35	--	<1	<1	<1	<1
04/06/05	<sup>(1)</sup> -040605-DCR-358	1.0 U	0.68 J	--	<1	<1	<1	<1
06/29/05	<sup>(1)</sup> -062905-DCR-401	1.0 U	1.1	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/05/05	<sup>(1)</sup> -120505-DCR-566	1.0 UJ	2.4	--	1.0 U	1.0 U	1.0 U	1.0 U
09/13/06	<sup>(1)</sup> -091306-DR-046	1.0 UJ	5.6	--	1.0 U	1.0 U	1.0 U	1.0 U
05/10/07	<sup>(1)</sup> -051007-JY-089	1.0 UJ	5.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/17/07	<sup>(1)</sup> -101707-DR-134	1.0 U	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-165	1.0 U	4.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-213	1.0 U	4.9	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	<sup>(1)</sup> -040809-DR-262	1.0 U	5.8	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

<sup>(1)</sup> Full sample number includes GW-17360

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 87-5  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing - 680.77  
**DEPTH:** screen - 8.5 to 19.5  
39.5 to 50.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/30/87	E70828	2.0 U	70	<2	<2	--	--	<10
03/17/89	E15526	--	190	11	--	--	--	--
06/15/89	E21120	--	230	27	--	--	--	--
09/20/89	E25599	--	170	23	--	--	--	--
12/21/89	E30993	--	87	21	--	--	--	--
03/16/90	E35821	--	93	24	--	--	--	--
06/18/90	E42015	--	130	33	--	--	--	--
09/14/90	E48219	--	130	26	--	--	--	--
12/18/90	E54818	--	94	29	--	--	--	--
03/12/91	E59928	--	340	13	--	--	--	--
06/13/91	E67557	--	120	49	--	--	--	--
09/12/91	E72981	--	70	120	--	--	--	--
12/13/91	E07647	--	16	110	--	--	--	--
03/13/92	E15383	--	14	150	--	--	--	--
06/12/92	E23256	--	45	110	--	--	--	--
09/11/92	E31908	--	16	95	--	--	--	--
12/10/92	E40324	--	63	110	--	--	--	--
03/11/93	E47618	--	6.6	110	--	--	--	--
06/14/93	E56587	--	<10	140	--	--	--	--
09/15/93	E66024	--	<10	130	--	--	--	--
12/17/93	E75743	--	9.1	99	--	--	--	--
03/16/94	E81236	--	<5	140	--	--	--	--
06/14/94	E89390	--	25	110	--	--	--	--
09/14/94	E97438	--	33	67	--	--	--	--
12/16/94	E106398	--	14	99	--	--	--	--
03/17/95	E112956	--	10	72.6	--	--	--	--
06/20/95	E120787	--	11	62.6	--	--	--	--
09/14/95	E127381	--	4	61.2	--	--	--	--
12/19/95	E134973	--	4.4	53	--	--	--	--
03/19/96	E139839	--	3.8	42	--	--	--	--
06/13/96	E146837	--	5.3	38	--	--	--	--
09/13/96	E154123	--	20	110	--	--	--	--
12/12/96	E161521	--	6.9	77	--	--	--	--
03/13/97	E166217	--	3.8	52	--	--	--	--
06/19/97	E172378	--	17	78	--	--	--	--
09/11/97	E177740	--	29	57	--	--	--	--
12/16/97	E184900	--	29	47	--	--	--	--
03/12/98	E190813	--	34	50	--	--	--	--
06/16/98	82953-3396	--	2	4	--	--	--	--
09/17/98	84367-8359	--	D<5	D52	--	--	--	--
12/16/98	85755-2514	--	3	22	--	--	--	--
03/10/99	90995-6090	--	6	14	--	--	--	--
06/15/99	3990294007	--	3.9	9.8	--	--	--	--
09/20/99	3991971005	--	3.9	9	--	--	--	--
12/16/99	3993622004	--	3.9	9.1	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: 87-5  
 REVISION: 7/8/2009  
 UNITS: ug/L

ELEVATION: top of casing - 680.77  
 DEPTH: screen - 8.5 to 19.5  
 39.5 to 50.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152003	--	3.5	9.2	--	--	--	--
06/13/00	3002633008	--	1.8	14	--	--	--	--
09/22/00	E261221	--	2.1	11	--	--	--	--
12/20/00	E268211	--	2.8	14	--	--	--	--
03/21/01	E274379	--	1.8	4.5	--	--	--	--
06/13/01	E281015	--	29	33	--	--	--	--
09/13/01	E287755	--	SS 100	SS 36	--	--	--	--
12/19/01	E295707	--	2.7	20	--	--	--	--
03/28/02	<sup>(1)</sup> -032802-TJ-005	--	215	<5	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-037	--	<1	68	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-048	--	<2	115	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-067	--	<2	78	--	--	--	--
03/21/03	<sup>(1)</sup> -032103-JB-089	--	<1	--	--	1.6	3.6	--
07/15/03	<sup>(1)</sup> -071503-SP-060	4.0 U	<4	--	<4	33	13	130
10/02/03	<sup>(1)</sup> -100203-JB-084	2.5 U	<2.5	--	<2.5	3	2.1	92
12/17/03	<sup>(1)</sup> -121703-JB-092	3.3 U	<3.3	--	<3.3	23	12	120
03/16/04	<sup>(1)</sup> -031604-BW-140	4.0 U	3.1	--	<4	11	10	120
10/06/04	<sup>(1)</sup> -100604-DCR-271	4.2 U	<4.2	--	<4.2	1.4	5.2	91
12/02/04	<sup>(1)</sup> -120204-DCR-308	3.3 U	1.1	--	<3.3	28	16	90
04/06/05	<sup>(1)</sup> -040605-DCR-362	5.0 U	<5	--	<5	3.7 J	11	150
06/29/05	<sup>(1)</sup> -062905-DCR-405	1.2 U	0.73 J	--	1.2 U	1.4	1.4	31
12/05/05	<sup>(1)</sup> -120505-DCR-568	2.5 U	2.5 U	--	2.5 U	0.57 J	3	60 J
09/13/06	<sup>(1)</sup> -091306-DR-049	2.5 UJ	2.5 U	--	2.5 U	1.3 J	6.1	59
05/10/07	<sup>(1)</sup> -051007-JY-090	3.3 UJ	3.3 U	3.3 U	3.3 U	18	22	96
10/17/07	<sup>(1)</sup> -101707-DR-131	3.3 U	3.3 U	3.3 U	4.1	5.9	15	94
04/22/08	<sup>(1)</sup> -042208-DR-167	3.3 U	3.3 U	3.3 U	3.3 U	8.7	18	84
10/07/08	<sup>(1)</sup> -100708-DR-216	1.0 U	0.3 J	--	1.0 U	0.32 J	7.5	29
*10/7/2008	<sup>(1)</sup> -100708-DR-217	1.0 U	0.33 J	--	1.0 U	0.45 J	8.1	37
04/08/09	<sup>(1)</sup> -040809-DR-263	1.0 U	0.44 J	--	1.0 U	1.0 U	4	25

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

<sup>(1)</sup> Full sample number includes GW-17360

\*Duplicate

**Transmission Report**

Date/Time  
Local ID 1  
Local ID 2

07-08-2009  
517-3162398

11:08:56 a.m.

Transmit Header Text  
Local Name 1  
Local Name 2

CRA-Lansing, Michigan  
Line 2

**This document : Confirmed  
(reduced sample and details below)  
Document size : 8.5"x11"**

Carla Rios - Account # 4185 8262 4493 3377 - Dispute

Attn: Tim Monahan  
From: Carla Rios

Per our conversation 7/10/09 attached  
is the supporting documentation  
proving that the person (Dayne Jacobs)  
that was hired ~~there~~ to conduct  
the appraisal from Flagstar bank  
is not on their approved list + is  
NOT FHA approved in order to conduct  
a ~~FHA~~ appraisal.

Please call me with any  
questions. Thanks

Carla Rios  
517-719-7427

Total Pages Scanned : 10

Total Pages Confirmed : 10

No.	Job	Remote Station	Start Time	Duration	Pages	Line	Mode	Job Type	Results
001	466	SCD2NTS321	11:06:07 a.m. 07-08-2009	00:02:13	10/10	1	EC	HS	CP26400

Abbreviations:

HS: Host send  
HR: Host receive  
WS: Waiting send

PL: Polled local  
PR: Polled remote  
MS: Mailbox save

MP: Mailbox print  
CP: Completed  
FA: Fail

TU: Terminated by user  
TS: Terminated by system  
RP: Report

G3: Group 3  
EC: Error Correct



General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: 87-8  
 REVISION: 7/8/2009  
 UNITS: ug/L

ELEVATION: top of casing - 677.47  
 DEPTH: screen - 19.7 to 22.7

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/21/87	E70829	2 U	9	<2	<2	--	--	<10
06/08/88	E91244	2 U	6	<2	<2	--	--	<10
12/21/88	E11597	--	6	<2	--	--	--	--
03/16/89	E15527	--	4.7	<1	--	--	--	--
06/16/89	E21121	--	2.3	<1	--	--	--	--
09/20/89	E25600	--	3	<1	--	--	--	--
12/21/89	E30998	--	3	<1	<1	--	--	<1
03/16/90	E35822	--	2	<1	--	--	--	--
06/18/90	E42016	--	4	<1	--	--	--	--
09/14/90	E48220	--	4	<1	--	--	--	--
12/17/90	E54823	--	6	<2	<2	--	--	<10
03/11/91	E59929	--	5	<1	--	--	--	--
06/13/91	E67559	--	4	<1	--	--	--	--
09/13/91	E72982	--	3	<1	--	--	--	--
12/13/91	E07652	--	2	<1	<1	--	--	<1
03/13/92	E15385	--	4	<1	--	--	--	--
06/12/92	E23260	--	3.1	<1	--	--	--	--
09/11/92	E31914	--	2.1	<1	--	--	--	--
12/10/92	E40331	--	1	<1	<1	--	--	<1
03/11/93	E47637	--	1.6	<1	--	--	--	--
06/14/93	E56575	--	1.9	<1	--	--	--	--
09/15/93	E66027	--	1.9	<1	--	--	--	--
12/17/93	E75752	--	2.2	<1	<1	--	--	<1
03/16/94	E81240	--	1.2	<1	--	--	--	--
06/14/94	E89392	--	1.3	<1	--	--	--	--
09/14/94	E97439	--	<1	<1	--	--	--	--
12/16/94	E106404	--	1.3	<1	<1	--	--	<1
03/17/95	E112958	--	1.4	<2	--	--	--	--
06/20/95	E120794	--	1.1	<2	--	--	--	--
09/14/95	E127383	--	<1	<2	--	--	--	--
12/18/95	E134975	--	<1	<1	<1	--	--	<1
03/19/96	E139845	--	<1	<1	--	--	--	--
06/13/96	E146842	--	1	<1	--	--	--	--
09/13/96	E154126	--	1.1	<1	--	--	--	--
12/13/96	E161532	--	1.4	<1	<1	--	--	<1
03/13/97	E166212	--	<1	<1	--	--	--	--
06/19/97	E172380	--	<1	<1	--	--	--	--
09/11/97	E177751	--	1.1	<1	--	--	--	--
12/16/97	E184904	--	1.3	<1	<1	--	--	<1
03/12/98	E190815	--	<1	<1	--	--	--	--
06/16/98	82953-3399	--	<1	<2	--	--	--	--
09/17/98	84367-8368	--	<1	<1	--	--	--	--
12/16/98	85755-2523	--	2	<1	<1	--	--	<1
03/10/99	90995-6093	--	4	<1	--	--	--	--
06/15/99	3990294015	--	1.6	<2	--	--	--	--
09/20/99	3991971011	--	1.5	<1	--	--	--	--
12/16/99	3993622009	--	2	<1	<1	--	--	<1

-- = Not analyzed

DCE = Dichloroethene

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-8  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing - 677.47  
DEPTH: screen - 19.7 to 22.7

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152012	--	2.6	<1	--	--	--	--
06/13/00	3002633010	--	1.4	<1	--	--	--	--
09/22/00	E261231	--	1.2	<1	--	--	--	--
12/20/00	E268213	--	2.7	<1	<1	--	--	<1
03/21/01	E274390	--	1.3	<1	--	--	--	--
06/14/01	E281020	--	<1	<1	--	--	--	--
09/13/01	E287758	--	1	<1	--	--	--	--
12/19/01	E295711	--	1.2	<1	<1	--	--	<1
03/28/02	<sup>(1)</sup> -032802-TJ-014	--	<1	<1	--	--	--	--
06/26/02	<sup>(1)</sup> -062602-JB-027	--	<1	<1	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-061	--	<1	<1	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-077	--	<1	<1	<1	--	--	<1
03/21/03	<sup>(1)</sup> -032103-JB-099	--	<1	--	--	<1	<1	--
08/06/03	<sup>(1)</sup> -080603-JB-068	1.0 U	<1	--	<1	<1	<1	<1
*8/6/2003	<sup>(1)</sup> -080603-JB-069	1.0 U	<1	--	<1	<1	<1	<1
09/30/03	<sup>(1)</sup> -093003-JB-074	1.0 U	0.33	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-105	0.25 J	0.53	--	<1	<1	<1	<1
03/15/04	<sup>(1)</sup> -031504-BW-133	0.20 J	0.52	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-252	1.0 U	0.52	--	<1	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-300	0.39 J	0.90	--	<1	0.28	<1	<1
04/06/05		--	--	--	--	--	--	--
06/29/05		--	--	--	--	--	--	--
04/23/08	<sup>(1)</sup> -042308-DR-179	4.1 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-204	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-256	1.0 U	.038 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-9 ELEVATION: top of casing - 673.88  
 REVISION: 7/8/2009 DEPTH: screen - 50.5 to 53.5  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/21/87	E70830	2 U	62	<2	<2	--	--	<10
06/08/88	E91245	2 U	21	<2	<2	--	--	<10
12/21/88	E11598	--	18	<2	--	--	--	--
03/16/89	E15522	--	12	<1	--	--	--	--
06/15/89	E21122	--	7.9	<1	--	--	--	--
09/20/89	E25601	--	6	<1	--	--	--	--
12/21/89	E30999	--	5	<1	<1	--	--	<1
03/16/90	E35823	--	4	<1	--	--	--	--
06/19/90	E42017	--	3	<1	--	--	--	--
09/14/90	E48221	--	3	<1	--	--	--	--
12/17/90	E54824	--	2	<2	<2	--	--	<10
03/11/91	E59930	--	2	<1	--	--	--	--
06/13/91	E67561	--	2	<1	--	--	--	--
09/13/91	E72983	--	1	<1	--	--	--	--
12/13/91	E07653	--	1	<1	<1	--	--	<1
03/13/92	E15387	--	1	<1	--	--	--	--
06/12/92	E23262	--	1.6	3.5	--	--	--	--
09/11/92	E31917	--	1.4	<1	--	--	--	--
12/10/92	E40334	--	2	<1	<1	--	--	<1
03/11/93	E47627	--	<1	<1	--	--	--	--
06/14/93	E56576	--	<1	<1	--	--	--	--
09/15/93	E66028	--	**	**	--	--	--	--
10/19/93	E69400	--	1.4	<1	--	--	--	--
12/17/93	E75753	--	<1	<1	<1	--	--	<1
03/16/94	E81244	--	<1	<1	--	--	--	--
06/14/94	E89396	--	<1	<1	--	--	--	--
09/14/94	E97446	--	<1	<1	--	--	--	--
12/16/94	E106408	--	<1	<1	<1	--	--	<1
03/17/95	E112961	--	<1	<2	--	--	--	--
06/20/95	E120796	--	<1	<2	--	--	--	--
09/14/95	E127391	--	<1	<2	--	--	--	--
12/18/95	E134978	--	<1	<1	<1	--	--	<1
03/19/96	E139847	--	<1	<1	--	--	--	--
06/13/96	E146845	--	<1	<1	--	--	--	--
09/13/96	E154128	--	<1	<1	--	--	--	--
12/13/96	E161535	--	<1	<1	<1	--	--	<1
03/13/97	E166220	--	<1	<1	--	--	--	--
06/19/97	E172386	--	<1	<1	--	--	--	--
09/11/97	E177754	--	1	<1	--	--	--	--
12/16/97	E184907	--	<1	<1	<1	--	--	<1
03/12/98	E190819	--	<1	<1	--	--	--	--
06/16/98	82953-3403	--	<1	<2	--	--	--	--
09/17/98	84367-8372	--	<1	<1	--	--	--	--
12/16/98	85755-2527	--	<1	<1	<1	--	--	<1
03/10/99	90995-6096	--	<1	<1	--	--	--	--
06/15/99	3990294018	--	<1	<2	--	--	--	--
09/20/99	3991971014	--	<1	<1	--	--	--	--
12/16/99	3993622011	--	<1	<1	<1	--	--	<1

-- = Not analyzed DCE = Dichloroethene  
 \*\* = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 87-9 **ELEVATION:** top of casing - 673.88  
**REVISION:** 7/8/2009 **DEPTH:** screen - 50.5 to 53.5  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152014	--	<1	<1	--	--	--	--
06/13/00	3002633017	--	<1	<1	--	--	--	--
09/22/00	E261234	--	<1	<1	--	--	--	--
12/20/00	E268218	--	<1	<1	<1	--	--	<1
03/21/01	E274392	--	<1	<1	--	--	--	--
06/14/01	E281022	--	<1	<1	--	--	--	--
09/13/01	E287743	--	<1	<1	--	--	--	--
12/19/01	E295713	--	SS<1	SS<1	SS<1	--	--	SS<1
03/28/02	<sup>(1)</sup> -032802-TJ-012	--	<1	<1	--	--	--	--
06/26/02	<sup>(1)</sup> -062602-JB-025	--	<1	<1	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-060	--	1.9	<1	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-076	--	9.7	3.8	<1	--	--	<1
03/21/03	<sup>(1)</sup> -032103-JB-096	--	<1	--	--	<1	<1	--
08/06/03	<sup>(1)</sup> -080603-JB-067	1.0 U	<1	--	<1	<1	<1	<1
09/30/03	<sup>(1)</sup> -093003-JB-070	1.0 U	0.3	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-103	1.0 UJ	0.38	--	0.7	<1	<1	<1
03/15/04	<sup>(1)</sup> -031504-BW-129	1.0 U	<1	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-255	1.0 U	<1	--	<1	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-299	1.0 U	0.31	--	<1	<1	<1	<1
04/05/05	<sup>(1)</sup> -040505-DCR-340	1.0 UJ	<1	--	<1	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-379	1.0 U	0.28 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	<sup>(1)</sup> -120405-DCR-555	1.0 UJ	0.38 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-DR-026	1.0 UJ	0.45 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-073	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-116	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	<sup>(1)</sup> -042308-DR-178	1.0 U	0.477 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-207	1.0 U	0.51 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-253	1.0 U	0.8 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed DCE = Dichloroethene  
SS = Surrogate spike result had a percent recovery outside the upper control limit.  
This result must be considered estimated.  
\*\* = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.  
<sup>(1)</sup> Full sample number includes GW-17360

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-10  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing - 668.83  
DEPTH: screen - 29 to 32

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91246	2 U	46	8	<2	--	--	<10
12/21/88	E11599	--	58	10	--	--	--	--
03/16/89	E15523	--	48	14	--	--	--	--
06/16/89	E21123	--	42	10	--	--	--	--
09/20/89	E25602	--	50	7	--	--	--	--
12/21/89	E31000	--	63	8	<1	--	--	<1
03/16/90	E35824	--	79	10	--	--	--	--
06/19/90	E42018	--	83	8	--	--	--	--
09/14/90	E48222	--	110	11	--	--	--	--
12/17/90	E54825	--	89	7	<2	--	--	<10
03/11/91	E59931	--	70	<1	--	--	--	--
06/13/91	E67562	--	66	3	--	--	--	--
09/12/91	E72984	--	50	3	--	--	--	--
12/13/91	E07654	--	55	2	<1	--	--	<1
03/13/92	E15393	--	51	2	--	--	--	--
06/12/92	E23267	--	47	<1	--	--	--	--
09/11/92	E31921	--	35	<1	--	--	--	--
12/11/92	E40336	--	55	1	<1	--	--	<1
03/11/93	E47631	--	46	1.3	--	--	--	--
06/15/93	E56578	--	47	1.2	--	--	--	--
09/15/93	E66049	--	49	<2	--	--	--	--
12/17/93	E75755	--	47	<2	<2	--	--	<2
03/16/94	E81247	--	55	<1	--	--	--	--
06/14/94	E89399	--	130 *	40 *	--	--	--	--
09/14/94	E97451	--	52	<5	--	--	--	--
12/16/94	E106406	--	58	<1	<1	--	--	<1
03/17/95	E112951	--	55	1.2	--	--	--	--
06/20/95	E120804	--	69	2	--	--	--	--
09/14/95	E127389	--	65	<4	--	--	--	--
12/18/95	E134982	--	62	<2	<2	--	--	<2
03/19/96	E139853	--	51	1.7	--	--	--	--
06/13/96	E146850	--	67	3	--	--	--	--
09/13/96	E154134	--	80	4.2	--	--	--	--
12/12/96	E161527	--	64	4.7	<1	--	--	<1
03/13/97	E166224	--	62	6.3	--	--	--	--
06/19/97	E172390	--	68	7.5	--	--	--	--
09/11/97	E177748	--	52	7.7	--	--	--	--
12/16/97	E184910	--	53	8.8	1.8	--	--	1.6
03/13/98	E190823	--	53	4.8	--	--	--	--
06/16/98	82953-3407	--	30	4	--	--	--	--
09/17/98	84367-8376	--	32	3	--	--	--	--
12/16/98	85755-2531	--	32	3	<1	--	--	<1
03/10/99	90995-6105	--	33	2	--	--	--	--
06/15/99	3990294020	--	33	3.1	--	--	--	--
09/20/99	3991971015	--	35	2.2	--	--	--	--
12/16/99	3993622017	--	52	D<5	<5	--	--	<5

-- = Not analyzed

DCE = Dichloroethene

\* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-11.

D = Compound identified in an analysis at a secondary dilution factor.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-10  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing - 668.83  
DEPTH: screen - 29 to 32

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152017	--	D65	D<5	--	--	--	--
06/13/00	3002633020	--	D41	D<2	--	--	--	--
09/22/00	E261235	--	97	2	--	--	--	--
12/20/00	E268220	--	80	2.6	<1	--	--	<1
03/21/01	E274386	--	64	1.1	--	--	--	--
06/14/01	E281024	--	72	<1	--	--	--	--
09/13/01	E287745	--	76	<1	--	--	--	--
12/19/01	E295717	--	46	1.2	<1	--	--	<1
03/28/02	<sup>(1)</sup> -032802-TJ-021	--	72	2.3	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-032	--	33	<1	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-063	--	54	1.5	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-083	--	48	1.6	<1	--	--	<1
03/21/03	<sup>(1)</sup> -032103-JB-104	--	41	--	--	1.8	<1	--
07/14/03	<sup>(1)</sup> -071403-SP-046	1.0 U	27	--	0.51	1.6	<1	<1
10/01/03	<sup>(1)</sup> -100103-JB-076	2.0 U	44	--	<2	1.4	<2	<2
12/18/03	<sup>(1)</sup> -100103-JB-114	0.34 J	44	--	<1.7	1.1	<1.7	<1.7
03/15/04	<sup>(1)</sup> -031504-BW-124	2.0 U	47	--	<2	1.2	<2	<2
10/04/04	<sup>(1)</sup> -100404-DCR-246	1.7 U	39	--	<1.7	0.78	<1.7	<1.7
12/01/04	<sup>(1)</sup> -120104-DCR-295	0.50 J	45	--	<1.4	0.95	<1.4	<1.4
04/05/05	<sup>(1)</sup> -040505-DCR-345	0.51 J	28	--	0.34 J	0.90 J	0.19 J	<1
06/29/05	<sup>(1)</sup> -062905-DCR-393	0.46 J	25	--	0.32 J	0.77 J	0.20 J	1.0 UJ
12/06/05	<sup>(1)</sup> -120605-DCR-576	0.44 J	26	--	0.24 J	0.76 J	1.0 U	1.0 U
09/11/06	<sup>(1)</sup> -091106-DR-017	0.34 J	17	--	0.21 J	0.92 J	0.2 J	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-065	0.36 J	13	1.0 U	1.0 U	0.95 J	1.0 U	1.0 U
10/15/07	<sup>(1)</sup> -101507-DR-107	0.46 J	14	1.0 U	0.41 J	0.85 J	0.2 J	1.0 U
04/21/08	<sup>(1)</sup> -042108-DR-141	0.37 J	10	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-193	0.34 J	11	--	1.0 U	0.66 J	0.19 J	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-246	0.31 J	11	--	0.29 J	1.6	0.4 J	1.0 U

-- = Not analyzed

DCE = Dichloroethene

\* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-11.

D = Compound identified in an analysis at a secondary dilution factor.

<sup>(1)</sup> Full sample number includes GW-17360

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: 87-11 ELEVATION: top of casing - 667.17  
 REVISION: 7/8/2009 DEPTH: screen - 30 to 33  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91247	2 U	320	76	<2	--	--	<10
12/21/88	E11600	--	500	69	--	--	--	--
03/16/89	E15524	--	330	55	--	--	--	--
06/16/89	E21124	--	190	70	--	--	--	--
09/20/89	E25603	--	220	44	--	--	--	--
12/21/89	E31001	--	150	40	<5	--	--	<5
03/16/90	E35825	--	230	69	--	--	--	--
06/19/90	E42019	--	200	120	--	--	--	--
09/14/90	E48223	--	220	64	--	--	--	--
12/17/90	E54826	--	48	15	<2	--	--	<10
03/11/91	E59932	--	240	<5	--	--	--	--
06/13/91	E67563	--	220	46	--	--	--	--
09/12/91	E72985	--	160	25	--	--	--	--
12/13/91	E07655	--	150	92	<5	--	--	<5
03/13/92	E15394	--	180	38	--	--	--	--
06/12/92	E23266	--	160	39	--	--	--	--
09/11/92	E31922	--	140	25	--	--	--	--
12/11/92	E40337	--	200	38	<5	--	--	<5
03/11/93	E47632	--	110	20	--	--	--	--
06/15/93	E56579	--	99	21	--	--	--	--
09/15/93	E66050	--	97	14	--	--	--	--
12/17/93	E75754	--	90	17	<5	--	--	<5
03/16/94	E81246	--	99	36	--	--	--	--
06/14/94	E89400	--	58 *	<5 *	--	--	--	--
09/14/94	E97448	--	88	24	--	--	--	--
12/16/94	E106409	--	110	38	<5	--	--	<5
03/17/95	E112950	--	130	30	--	--	--	--
06/20/95	E120805	--	140	53	--	--	--	--
09/14/95	E127388	--	130	58	--	--	--	--
12/18/95	E134981	--	120	34	<5	--	--	<5
03/19/96	E139851	--	160	26	--	--	--	--
06/13/96	E146851	--	150	78	--	--	--	--
09/13/96	E154135	--	210	63	--	--	--	--
12/12/96	E161528	--	180	39	<5	--	--	<5
03/13/97	E166225	--	170	110	--	--	--	--
06/19/97	E172391	--	210	71	--	--	--	--
09/11/97	E177749	--	190	34	--	--	--	--
12/16/97	E184911	--	190	34	<5	--	--	<5
03/13/98	E190824	--	200	48	--	--	--	--
06/16/98	82953-3408	--	D110	D16	--	--	--	--
09/17/98	84367-8377	--	D140	14	--	--	--	--
12/16/98	85755-2532	--	D120	D49	D<5	--	--	D<5
03/10/99	90995-6106	--	D120	D28	--	--	--	--
06/15/99	3990294021	--	D110	32	--	--	--	--
09/20/99	3991971017	--	D160	D29	--	--	--	--
12/16/99	3993622020	--	120	D55	<10	--	--	<10
03/16/00	3001152019	--	D110	D130	--	--	--	--
06/13/00	3002633021	--	D74	D75	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

\* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-10.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** 87-11  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing - 667.17  
**DEPTH:** screen - 30 to 33

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/22/00	E261236	--	64	110	--	--	--	--
12/20/00	E268222	--	89	110	<1	--	--	1.1
03/21/01	E274387	--	84	73	--	--	--	--
06/14/01	E281027	--	72	56	--	--	--	--
09/13/01	E287746	--	89	34	--	--	--	--
12/19/01	E295718	--	17	99	<1	--	--	4.7
03/28/02	<sup>(1)</sup> -032802-TJ-020	--	63	92	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-031	--	17	-67.5	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-062	--	44	-120	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-084	--	46	-120	--	--	--	--
03/21/03	<sup>(1)</sup> -032103-JB-103	--	34	--	--	110	1.5	--
07/14/03	<sup>(1)</sup> -071403-SP-047	2.0 U	28	--	<2	42	<2	3.7
10/01/03	<sup>(1)</sup> -100103-JB-075	5.0 U	34	--	<5	130	1.5	5
12/18/03	<sup>(1)</sup> -121803-JB-113	4.0 U	11	--	<4	130	1.5	1.3
03/15/04	<sup>(1)</sup> -031504-BW-126	4.0 U	5.7	--	<4	97	1.5	8.3
10/04/04	<sup>(1)</sup> -100404-DCR-247	2.5 U	23	--	<2.5	56	2.7	9.1
12/01/04	<sup>(1)</sup> -120104-DCR-296	2.5 U	24	--	<2.5	66	0.85	4.3
04/05/05	<sup>(1)</sup> -040505-DCR-346	2.5 UJ	31	--	<2.5	56	1.7 J	1.2 J
06/29/05	<sup>(1)</sup> -062905-DCR-392	1.7 U	32	--	1.7 U	23	1.7	3.6 J
12/06/05	<sup>(1)</sup> -120605-DCR-575	1.0 U	40	--	0.39 J	51 J	0.94 J	2.5
09/11/06	<sup>(1)</sup> -091106-DR-016	1.7 UJ	42	--	1.7 U	15	0.74 J	2.7
05/09/07	<sup>(1)</sup> -050907-JY-067	1.4 U	50	1.4 U	1.4 U	14	1.4 U	2.6
10/15/07	<sup>(1)</sup> -101507-DR-105	1.0 U	38	1.0 U	0.75 J	19	0.19 J	4.1
04/21/08	<sup>(1)</sup> -042108-DR-138	1.0 UJ	27	1.0 U	0.65 J	25	0.49 J	4.1
10/06/08	<sup>(1)</sup> -100608-DR-194	1.0 UJ	34	--	0.33 J	13	1.0 U	4.5
*10/6/2008	<sup>(1)</sup> -100608-DR-195	1.0 UJ	36	--	0.34 J	13	0.21 J	4.8
04/07/09	<sup>(1)</sup> -040709-DR-243	1.7 U	43	--	1.7 U	15	1.7 U	2.3

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

\*Duplicate

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: 87-13  
 REVISION: 7/8/2009  
 UNITS: ug/L

ELEVATION: top of casing - 664.24  
 DEPTH: screen - 40 to 43

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91248	2 U	10	<2	<2	--	--	<10
12/21/88	E11601	--	7	<2	--	--	--	--
03/16/89	E15525	--	9	<1	--	--	--	--
06/16/89	E21125	--	7.6	<1	--	--	--	--
09/20/89	E25604	--	5	<1	--	--	--	--
12/21/89	E31002	--	3	<1	<1	--	--	<1
03/16/90	E35826	--	6	<1	--	--	--	--
06/19/90	E42020	--	7	<1	--	--	--	--
09/14/90	E48224	--	7	<1	--	--	--	--
12/17/90	E54827	--	6	<2	<2	--	--	<10
03/11/91	E59933	--	6	<1	--	--	--	--
06/13/91	E67564	--	5	<1	--	--	--	--
09/12/91	E72986	--	3	<1	--	--	--	--
12/13/91	E07656	--	3	<1	<1	--	--	<1
03/13/92	E15391	--	5	<1	--	--	--	--
06/12/92	E23265	--	4.4	<1	--	--	--	--
09/11/92	E31920	--	3.1	<1	--	--	--	--
12/10/92	E40335	--	3	<1	<1	--	--	<1
03/11/93	E47630	--	2.8	<1	--	--	--	--
06/15/93	E56581	--	3.3	<1	--	--	--	--
09/15/93	E66052	--	3.5	<1	--	--	--	--
12/17/93	E75756	--	3	<1	<1	--	--	<1
03/16/94	E81250	--	2.7	<1	--	--	--	--
06/14/94	E89398	--	2.7	<1	--	--	--	--
09/14/94	E97450	--	2.4	<1	--	--	--	--
12/16/94	E106410	--	2.6	<1	<1	--	--	<1
03/17/95	E112948	--	3.2	<2	--	--	--	--
06/20/95	E120806	--	3.8	<2	--	--	--	--
09/14/95	E127393	--	2.4	<2	--	--	--	--
12/18/95	E134980	--	2.2	<1	<1	--	--	<1
03/19/96	E139852	--	2	<1	--	--	--	--
06/13/96	E146848	--	2.7	<1	--	--	--	--
09/13/96	E154131	--	1.9	<1	--	--	--	--
12/12/96	E162064	--	1.7	<1	<1	--	--	<1
03/13/97	E166222	--	2.1	<1	--	--	--	--
06/19/97	E172387	--	1.6	<1	--	--	--	--
09/11/97	E177746	--	2.1	<1	--	--	--	--
12/16/97	E184909	--	1.8	<1	<1	--	--	<1
03/13/98	E190822	--	<1	<1	--	--	--	--
06/16/98	82953-3406	--	2	<2	--	--	--	--
09/17/98	84367-8373	--	<1	<1	--	--	--	--
12/16/98	85755-2528	--	2	<1	<1	--	--	<1
03/10/99	90995-6098	--	2	<1	--	--	--	--
06/15/99	3990294022	--	2	<2	--	--	--	--
09/20/99	3991971016	--	2.3	<1	--	--	--	--
12/16/99	3993622018	--	2.1	<1	<1	--	--	<1

-- = Not analyzed

DCE = Dichloroethene

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** 87-13  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing - 664.24  
**DEPTH:** screen - 40 to 43

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152016	--	1.8	<1	--	--	--	--
06/13/00	3002633018	--	1.3	<1	--	--	--	--
09/22/00	E261238	--	1.9	<1	--	--	--	--
12/20/00	E268221	--	2.7	<1	<1	--	--	<1
03/21/01	E274385	--	1.8	<1	--	--	--	--
06/14/01	E281028	--	1.7	<1	--	--	--	--
09/13/01	E287749	--	1.8	<1	--	--	--	--
12/19/01	E295721	--	1.5	<1	<1	--	--	<1
03/28/02	<sup>(1)</sup> -032802-TJ-018	--	1.6	<1	--	--	--	--
*3/28/2002	<sup>(1)</sup> -032802-TJ-019	--	1.6	<1	--	--	--	--
06/26/02	<sup>(1)</sup> -062602-JB-028	--	1.0	<1	--	--	--	--
09/27/02	<sup>(1)</sup> -092702-JB-065	--	1.6	<1	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-082	--	1.7	<1	<1	--	--	<1
03/21/03	<sup>(1)</sup> -032103-JB-100	--	1.7	--	--	<1	<1	--
07/14/03	<sup>(1)</sup> -071403-SP-049	1.0 U	1.6	--	<1	<1	<1	<1
10/01/03	<sup>(1)</sup> -100103-JB-077	1.0 U	2.0	--	<1	<1	<1	<1
*10/1/2003	<sup>(1)</sup> -100103-JB-078	1.0 U	1.8	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-112	1.0 U	1.5	--	<1	<1	<1	<1
03/15/04	<sup>(1)</sup> -031504-BW-122	1.0 U	1.7	--	<1	<1	<1	<1
10/04/04	<sup>(1)</sup> -100404-DCR-241	1.0 U	1.9	--	<1	<1	<1	<1
*10/04/04	<sup>(1)</sup> -100404-DCR-242	1.0 U	1.8	--	<1	<1	<1	<1
11/30/04	<sup>(1)</sup> -113004-DCR-284	1.0 U	2.0	--	<1	<1	<1	<1
04/04/05	<sup>(1)</sup> -040405-DCR-333	1.0 U	2.1	--	<1	<1	<1	<1
06/27/05	<sup>(1)</sup> -062705-DCR-371	1.0 U	1.5	--	1.0 U	1.0 U	1.0 U	1.0 U
12/02/05	<sup>(1)</sup> -120205-DCR-506	1.0 UJ	1.4	--	1.0 U	0.28 J	1.0 U	1.0 U
12/02/05	<sup>(1)</sup> -120205-DCR-507	1.0 UJ	1.3	--	1.0 U	0.41 J	1.0 U	1.0 U
09/11/06	<sup>(1)</sup> -091106-DR-014	1.0 UJ	0.94 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	<sup>(1)</sup> -050807-JY-060	1.0 U	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	<sup>(1)</sup> -101507-DR-103	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	<sup>(1)</sup> -042108-DR-144	1.0 UJ	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-188	1.0 UJ	0.91	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-241	1.0 UJ	0.94	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

1 of 1

**SITE:** 93-1 **ELEVATION:** top of casing - 657.21  
**REVISION:** 7/8/2009 **DEPTH:** screen - 8.2  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
08/20/93	E63615	--	2.6	2.4	--	--	--	<1
12/17/93	E75757	--	2.7	3.1	--	--	--	<1
03/16/94	E81249	--	2.2	2.3	--	--	--	--
06/14/94	E89402	--	2.6	2.9	--	--	--	--
09/14/94	E97452	--	1.9	1.9	--	--	--	--
12/16/94	E106411	--	1.8	1.8	--	--	--	<1
03/17/95	E112949	--	2.8	2.3	--	--	--	--
06/20/95	E120807	--	3.3	3.3	--	--	--	--
09/14/95	E127392	--	1.2	1.6	--	--	--	--
12/18/95	E134983	--	1.1	1.4	--	--	--	<1
03/19/96	E139849	--	1.9	2.4	--	--	--	--
06/13/96	E146849	--	2.6	3.1	--	--	--	--
09/13/96	E154132	--	1.6	2.3	--	--	--	--
12/12/96	E161530	--	1.9	2.3	--	--	--	<1
03/13/97	E166226	--	2.3	1.8	--	--	--	--
06/19/97	E172388	--	2.4	3.1	--	--	--	--
09/11/97	E177747	--	2.1	2.6	--	--	--	--
12/16/97	E184913	--	1.7	3.1	--	--	--	1.3
03/13/98	E190826	--	<1	<1	--	--	--	--
06/16/98	82953-3410	--	1	J1	--	--	--	--
09/17/98	84367-8374	--	<1	<1	--	--	--	--
12/16/98	85755-2529	--	1	<1	--	--	--	<1
03/10/99	90995-6108	--	1	1	--	--	--	--
06/15/99	3990294024	--	2.3	2.3	--	--	--	--
09/20/99	3991971018	--	1.3	1.4	--	--	--	--
12/16/99	3993622019	--	<1	1.8	--	--	--	<1
03/16/00	3001152021	--	1	1.3	--	--	--	--
06/13/00	3002633022	--	<1	1.3	--	--	--	--
09/22/00	E261237	--	1	<1	--	--	--	--
12/20/00	E268225	--	2.2	5	--	--	--	<1
03/21/01	E274389	--	SI 2.2	SI 4	--	--	--	--
06/14/01	E281026	--	1.5	3.4	--	--	--	--
09/13/01	E287748	--	2.7	2.4	--	--	--	--
12/19/01	E295720	--	2.7	4.2	--	--	--	<1
03/28/02	<sup>(1)</sup> -032802-TJ-022	--	2.4	4.8	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-033	--	2.0	4.2	--	--	--	--
09/01/02	<sup>(1)</sup> -092702-JB-064	--	<1	<1	--	--	--	--
12/9/2002	<sup>(1)</sup> -120902-JB-080	--	2.0	-4.1	--	--	--	<1
3/21/2003	<sup>(1)</sup> -03/21/03-JB-101	--	1.8	--	--	3.2	<1	--
7/14/2003	<sup>(1)</sup> -07/14/03-SP-048	2.9	1.9	--	<1	4.2	<1	0.43
10/1/2003	<sup>(1)</sup> -100103-JB-079	1.9	1.4	--	<1	5.2	<1	0.60
12/18/2003	<sup>(1)</sup> -121803-JB-116	1.0 J	1.1	--	<1	3.1	<1	<1
3/15/2004	<sup>(1)</sup> -031504-BW-125	1.2	1.1	--	<1	1.5	<1	<1

-- = Not analyzed

J = Indicates an estimated value.

<sup>(1)</sup> Full sample number includes GW-17360

DCE = Dichloroethene

SI = Sample integrity suspect upon arrival, positive results should be considered estimated.



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** X-10 **ELEVATION:** top of casing - 681.10  
**REVISION:** 7/8/2009 **DEPTH:** screen - 35 to 45  
**UNITS:** ug/L

Date	Sample	Trichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethane
08/22/89	E24442	1	--	--
09/20/89	E25605	<1	<1	40
10/13/89	E26924	<1	--	31
11/17/89	E29147	<1	--	33
12/21/89	E30988	<1	--	25
01/12/90	E31894	<1	--	--
02/16/90	E33917	<1	--	39
03/16/90	E35830	<1	--	22
04/12/90	E37257	<1	--	31
05/18/90	E39757	<1	--	31
06/18/90	E42006	<1	--	37
07/13/90	E44004	<1	--	41
08/20/90	E46573	<1	--	24
09/14/90	E48210	<1	--	30
10/12/90	E50163	<1	--	36
11/15/90	E52798	<1	--	17
12/17/90	E54830	<2	--	32
03/12/91	E59921	<1	<1	--
06/13/91	E67565	<1	--	<1
09/12/91	E72987	<1	--	<1
12/13/91	E07658	<1	--	<1
03/13/92	E15379	<1	--	5
06/12/92	E23269	<1	--	<1
09/11/92	E31907	<1	--	<1
12/10/92	E40330	<1	--	2
03/11/93	E47617	<1	--	<1
06/14/93	E57772	<1	--	<1
09/15/93	E66057	<1	--	3.6
12/17/93	E75748	<1	--	<1
03/16/94	E81251	<1	--	<1
06/14/94	E89405	<1	--	9
09/14/94	E97453	<1	--	<1
12/16/94	E106403	<1	--	<1
03/17/95	E112962	<1	--	<1
06/20/95	E120788	<1	--	3.8
09/14/95	E127395	<1	--	<1
12/19/95	E134984	<1	--	<1
03/19/96	E139854	<1	--	<1
06/13/96	E146834	<1	--	<1
09/13/96	E154136	1.2	--	<1
12/12/96	E161517	<1	--	<1
03/13/97	E166215	<1	--	<1
06/19/97	E172375	<1	--	3.7
09/11/97	E177741	1	--	<1
12/16/97	***	***	***	***
03/13/98	****	****	****	****

-- = Not analyzed

\*\*\* = Unable to sample due to construction interference.

\*\*\*\* = Well no longer exists.



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH ELEVATION: top of casing - 678.47  
 REVISION: 7/8/2009 DEPTH: screen - 45 to 55  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
09/20/89	E25566	--	110	4	<1	--	--	<1	--
09/22/89	E25679	--	140	--	--	--	--	--	--
10/13/89	E26925	--	150	5	--	--	--	--	--
11/17/89	E29148	--	85	6	--	--	--	--	--
12/21/89	E31003	--	100	5	<1	--	--	1	--
01/12/90	E31895	--	110	<5	--	--	--	--	--
02/16/90	E33918	--	110	3	--	--	--	--	--
03/16/90	E35831	--	120	4	--	--	--	--	--
04/12/90	E37258	--	130	<5	--	--	--	--	--
05/18/90	E39758	--	180	1	--	--	--	--	--
06/18/90	E42007	--	170	<10	--	--	--	--	--
07/13/90	E44005	--	130	3	--	--	--	--	1820000
08/20/90	E46574	--	23	<1	--	--	--	--	1825000
09/14/90	E48211	--	130	4	--	--	--	--	1823000
10/12/90	E50164	--	160	<2	--	--	--	--	1650000
11/15/90	E52799	--	93	<1	--	--	--	--	1797000
12/17/90	E54828	--	140	5	<2	--	--	<10	2570000
01/15/91	--	--	--	--	--	--	--	--	1819000
02/20/91	--	--	--	--	--	--	--	--	1693000
03/11/91	E59920	--	86	<2	--	--	--	--	1922000
04/30/91	--	--	--	--	--	--	--	--	1713000
05/30/91	--	--	--	--	--	--	--	--	2096000
06/13/91	E67569	--	100	<5	--	--	--	--	1437000
07/31/91	--	--	--	--	--	--	--	--	2032000
08/31/91	--	--	--	--	--	--	--	--	1729000
09/12/91	E72988	--	86	6	--	--	--	--	1656000
10/31/91	--	--	--	--	--	--	--	--	1857000
11/30/91	--	--	--	--	--	--	--	--	1857000
12/13/91	E07657	--	75	4	<2	--	--	<2	1874000
01/31/92	--	--	--	--	--	--	--	--	1934000
02/28/92	--	--	--	--	--	--	--	--	1795000
03/13/92	E15386	--	73	4	--	--	--	--	2008000
04/30/92	--	--	--	--	--	--	--	--	++
05/31/92	--	--	--	--	--	--	--	--	++
06/30/92	--	--	--	--	--	--	--	--	++
07/31/92	--	--	--	--	--	--	--	--	3679000
08/13/92	E29153	--	63	3.7	--	--	--	--	2004000
09/11/92	E31915	--	62	3.3	--	--	--	--	2212000
10/31/92	--	--	--	--	--	--	--	--	1996000
11/30/92	--	--	--	--	--	--	--	--	2041000
12/10/92	E40333	--	61	2	<1	--	--	<1	1952000
01/31/93	--	--	--	--	--	--	--	--	1952000
02/28/93	--	--	--	--	--	--	--	--	1866000

-- = Not analyzed/measured DCE = Dichloroethene  
 ++ = Recorded total gallons for April 1992 through July 1992 (2 weeks).  
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** PW DISCH **ELEVATION:** top of casing - 678.47  
**REVISION:** 7/8/2009 **DEPTH:** screen - 45 to 55  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
03/11/93	E47624	--	40	2.2	--	--	--	--	2208000
04/30/93	--	--	--	--	--	--	--	--	2050000
05/31/93	--	--	--	--	--	--	--	--	2125000
06/14/93	E56577	--	44	3.6	--	--	--	--	1997000
07/31/93	--	--	--	--	--	--	--	--	1847000
08/31/93	--	--	--	--	--	--	--	--	2307000
09/15/93	E66026	--	47	2.8	--	--	--	--	1853000
10/31/93	--	--	--	--	--	--	--	--	1851000
11/30/93	--	--	--	--	--	--	--	--	2423000
12/17/93	E75750	--	32	2.8	<2	--	--	<2	1856000
03/11/93	E47624	--	40	2.2	--	--	--	--	2208000
04/30/93	--	--	--	--	--	--	--	--	2050000
05/31/93	--	--	--	--	--	--	--	--	2125000
06/14/93	E56577	--	44	3.6	--	--	--	--	1997000
07/31/93	--	--	--	--	--	--	--	--	1847000
08/31/93	--	--	--	--	--	--	--	--	2307000
09/15/93	E66026	--	47	2.8	--	--	--	--	1853000
10/31/93	--	--	--	--	--	--	--	--	1851000
11/30/93	--	--	--	--	--	--	--	--	2423000
12/17/93	E75750	--	32	2.8	<2	--	--	<2	1856000
03/16/94	E81242	--	42	2	--	--	--	--	2168000
04/11/94	--	--	--	--	--	--	--	--	1987000
05/11/94	--	--	--	--	--	--	--	--	2324000
06/14/94	E89394	--	39	1.7	--	--	--	--	1391000
07/13/94	E91965	--	32	--	--	--	--	--	1863000
09/07/94	--	--	--	--	--	--	--	--	1810000
09/14/94	E97437	--	29	1.3	--	--	--	--	--
10/05/94	--	--	--	--	--	--	--	--	1657000
11/09/94	--	--	--	--	--	--	--	--	1759000
12/07/94	--	--	--	--	--	--	--	--	1630000
12/16/94	E106405	--	28	2	<1	--	--	<1	--
01/04/95	--	--	--	--	--	--	--	--	1673000
02/08/95	--	--	--	--	--	--	--	--	2154000
03/08/95	--	--	--	--	--	--	--	--	1809000
03/17/95	E112960	--	24	1.3	--	--	--	--	--
04/05/95	--	--	--	--	--	--	--	--	1773000
05/03/95	--	--	--	--	--	--	--	--	1760000
06/07/95	--	--	--	--	--	--	--	--	2152000
06/20/95	E120792	--	23	<2	--	--	--	--	--
07/05/95	--	--	--	--	--	--	--	--	1521000
08/03/95	--	--	--	--	--	--	--	--	1770000
09/07/95	--	--	--	--	--	--	--	--	2138000
09/14/95	E127384	--	16	<2	--	--	--	--	--
10/04/95	--	--	--	--	--	--	--	--	1609000

-- = Not analyzed/measured                      DCE = Dichloroethene  
# = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH ELEVATION: top of casing - 678.47  
 REVISION: 7/8/2009 DEPTH: screen - 45 to 55  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
11/01/95	--	--	--	--	--	--	--	--	1658000
12/06/95	--	--	--	--	--	--	--	--	2703000
12/18/95	E134977	--	13	<1	<1	--	--	<1	--
01/03/96	--	--	--	--	--	--	--	--	1565000
02/07/96	--	--	--	--	--	--	--	--	2084000
03/06/96	--	--	--	--	--	--	--	--	1648000
03/19/96	E139843	--	12	<1	--	--	--	--	--
04/03/96	--	--	--	--	--	--	--	--	1596000
05/01/96	--	--	--	--	--	--	--	--	1656000
06/05/96	--	--	--	--	--	--	--	--	2131000
06/13/96	E146844	--	14	<1	--	--	--	--	--
06/26/96	--	--	--	--	--	--	--	--	1716000
07/31/96	--	--	--	--	--	--	--	--	2068000
09/04/96	--	--	--	--	--	--	--	--	2071000
09/13/96	E154125	--	15	<1	--	--	--	--	--
10/02/96	--	--	--	--	--	--	--	--	1665000
10/30/96	--	--	--	--	--	--	--	--	1614000
12/04/96	--	--	--	--	--	--	--	--	2027000
12/13/96	E161533	--	13	<1	<1	--	--	<1	--
12/31/96	--	--	--	--	--	--	--	--	1568000
01/29/97	--	--	--	--	--	--	--	--	1493000
02/26/97	--	--	--	--	--	--	--	--	1639000
03/13/97	E166210	--	9.3	<1	--	--	--	--	--
03/26/97	--	--	--	--	--	--	--	--	1636000
04/30/97	--	--	--	--	--	--	--	--	1704000
05/28/97	--	--	--	--	--	--	--	--	1596000
06/19/97	E172382	--	11	<1	--	--	--	--	--
07/02/97	--	--	--	--	--	--	--	--	2037000
08/06/97	--	--	--	--	--	--	--	--	1967000
09/04/97	--	--	--	--	--	--	--	--	1633000
09/11/97	E177753	--	9.4	<1	--	--	--	--	--
10/01/97	--	--	--	--	--	--	--	--	1541000
11/05/97	--	--	--	--	--	--	--	--	1690000
12/03/97	--	--	--	--	--	--	--	--	1458000
12/16/97	E184906	--	7.2	<1	<1	--	--	<1	--
12/31/97	--	--	--	--	--	--	--	--	1512000
01/28/98	--	--	--	--	--	--	--	--	1514000
02/25/98	--	--	--	--	--	--	--	--	1483000
03/12/98	E190818	--	5.9	<1	--	--	--	--	--
03/26/98	--	--	--	--	--	--	--	--	1544000
04/29/98	--	--	--	--	--	--	--	--	1744000
05/27/98	--	--	--	--	--	--	--	--	1497000
06/16/98	82953-3401	--	7	<2	--	--	--	--	--
07/01/98	--	--	--	--	--	--	--	--	1908000

-- = Not analyzed/measured DCE = Dichloroethene  
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE:	PW DISCH	ELEVATION:		top of casing - 678.47						Gallons
REVISION:	7/8/2009	DEPTH:		screen - 45 to 55						Pumped #
UNITS:	ug/L									
Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride		
07/29/98	--	--	--	--	--	--	--	--	--	1512000
09/02/98	--	--	--	--	--	--	--	--	--	1896000
09/17/98	84367-8367	--	5	<1	--	--	--	--	--	--
09/30/98	--	--	--	--	--	--	--	--	--	1515000
10/28/98	--	--	--	--	--	--	--	--	--	1419000
12/02/98	--	--	--	--	--	--	--	--	--	1661000
12/16/98	85755-2522	--	4	<1	<1	--	--	<1	--	--
12/31/98	--	--	--	--	--	--	--	--	--	1235000
01/27/99	--	--	--	--	--	--	--	--	--	1416000
02/24/99	--	--	--	--	--	--	--	--	--	1379000
03/18/99	911113-5423	--	4	<1	--	--	--	--	--	--
03/24/99	--	--	--	--	--	--	--	--	--	1180000
04/29/99	--	--	--	--	--	--	--	--	--	1778000
06/01/99	--	--	--	--	--	--	--	--	--	1705000
06/15/99	3990294017	--	4.7	<2	--	--	--	--	--	--
06/30/99	--	--	--	--	--	--	--	--	--	1736000
07/28/99	--	--	--	--	--	--	--	--	--	1741000
09/01/99	--	--	--	--	--	--	--	--	--	2049000
09/20/99	3991971008	--	4.5	<1	--	--	--	--	--	--
09/29/99	--	--	--	--	--	--	--	--	--	1636000
11/03/99	--	--	--	--	--	--	--	--	--	2017000
12/01/99	--	--	--	--	--	--	--	--	--	1624000
12/16/99	3993622015	--	3.5	<1	<1	--	--	<1	--	--
12/29/99	--	--	--	--	--	--	--	--	--	1634000
02/02/00	--	--	--	--	--	--	--	--	--	1958000
03/01/00	--	--	--	--	--	--	--	--	--	1581000
03/16/00	3001152011	--	2.7	<1	--	--	--	--	--	--
03/29/00	--	--	--	--	--	--	--	--	--	1602000
04/25/00	--	--	--	--	--	--	--	--	--	1576000
05/31/00	--	--	--	--	--	--	--	--	--	2052000
06/13/00	3002633015	--	2.1	<1	--	--	--	--	--	--
06/28/00	--	--	--	--	--	--	--	--	--	1619000
07/26/00	--	--	--	--	--	--	--	--	--	1605000
08/30/00	--	--	--	--	--	--	--	--	--	1968000
09/22/00	E261227	--	3.1	<1	--	--	--	--	--	--
11/01/00	--	--	--	--	--	--	--	--	--	1819000
11/29/00	--	--	--	--	--	--	--	--	--	1475000
12/20/00	E268217	--	4.8	<1	<1	--	--	<1	--	--
01/03/01	--	--	--	--	--	--	--	--	--	2127000
02/26/01	--	--	--	--	--	--	--	--	--	1515000
03/21/01	E274382	--	3.2	<1	--	--	--	--	--	--
03/28/01	--	--	--	--	--	--	--	--	--	2063000
04/24/01	--	--	--	--	--	--	--	--	--	1637000
05/30/01	--	--	--	--	--	--	--	--	--	1987000

-- = Not analyzed/measured

DCE = Dichloroethene

# = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH ELEVATION: top of casing - 678.47  
 REVISION: 7/8/2009 DEPTH: screen - 45 to 55  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
06/13/01	E281018	--	4.3	<1	--	--	--	--	--
06/25/01	--	--	--	--	--	--	--	--	1475000
07/16/01	--	--	--	--	--	--	--	--	1359000
08/22/01	--	--	--	--	--	--	--	--	673000
09/13/01	E287742	--	4.5	<1	--	--	--	--	1605000
10/09/01	--	--	--	--	--	--	--	--	1379000
11/13/01	--	--	--	--	--	--	--	--	2219000
12/19/01	E295710	--	5.6	<1	<1	--	--	<1	1558000
03/28/02	<sup>(1)</sup> -032802-TJ-011	--	5.8	<1	--	--	--	--	--
06/27/02	--	--	--	--	--	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-055	--	6.1	<1	--	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-078	--	5.9	~1.1	<1	--	--	<1	--
03/21/03	<sup>(1)</sup> -032103-JB-098	--	3.7	--	--	<1	<1	--	--
07/15/03	<sup>(1)</sup> -071503-SP-058	1.0 U	3	--	<1	<1	<1	<1	--
09/30/03	<sup>(1)</sup> -093003-JB-072	1.0 U	2.1	--	<1	<1	<1	<1	--
12/18/03	<sup>(1)</sup> -121803-JB-110	0.14 J	1.7	--	<1	<1	<1	<1	--
03/15/04	<sup>(1)</sup> -031504-BW-131	1.0 U	1.6	--	<1	<1	<1	<1	--
10/06/04	<sup>(1)</sup> -100604-DCR-268	1.0 U	1.5	--	<1	<1	<1	<1	--
12/01/04	<sup>(1)</sup> -120104-DCR-297	1.0 U	1.6	--	<1	<1	<1	<1	--
04/04/05	--	--	--	--	--	--	--	--	--

-- = Not analyzed/measured DCE = Dichloroethene  
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.  
<sup>(1)</sup> Full sample number includes GW-17360



General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary

SITE: C-1 ELEVATION: top of culvert - 663.20  
 REVISION: 7/8/2009  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Copper	Total Hardness
12/21/88	E11604	--	3	<2	--	--	--	--
03/17/89	E15514	--	2.4	<1	--	--	--	--
06/15/89	E21126	--	<1	<1	--	--	--	--
09/22/89	E25727	--	1	<1	--	--	--	--
12/21/89	E30994	--	<1	<1	--	--	--	--
03/16/90	E35827	--	2	<1	--	--	--	--
06/19/90	E42021	--	1	<1	--	--	--	--
09/14/90	E48225	--	<1	<1	--	--	--	--
12/17/90	E54819	--	4	<2	--	--	--	--
03/11/91	E59917	--	5	<1	--	--	--	--
06/13/91	E67566	--	4	<1	--	--	--	--
09/12/91	E72973	--	4	<1	--	--	--	--
12/13/91	E07648	--	5	<1	--	--	--	--
03/13/92	E15389	--	4	<1	--	--	--	--
06/12/92	E23263	--	2.6	<1	--	--	--	--
09/11/92	E31918	--	1.7	<1	--	--	--	--
12/10/92	E40327	--	2	<1	--	--	--	--
03/11/93	E47628	--	2.1	<1	--	--	--	--
06/15/93	E56590	--	2.1	<1	--	--	--	--
09/15/93	E66029	--	2	<1	--	--	--	--
12/17/93	E75746	--	1.7	<1	--	--	--	--
03/16/94	E81243	--	2.1	<1	--	--	--	--
06/14/94	E89395	--	1.1	<1	--	--	--	--
09/14/94	E97441	--	<1	<1	--	--	--	--
12/16/94	E106400	--	1.4	<1	--	--	--	--
03/17/95	E112944	--	1.8	<2	--	--	--	--
06/20/95	E120793	--	1.1	<2	--	--	--	--
09/14/95	E127385	--	<1	<2	--	--	--	--
12/18/95	E134967	--	<1	<1	--	--	--	--
03/19/96	E139844	--	<1	<1	--	--	--	--
06/13/96	E146846	--	1.3	<1	--	--	--	--
09/13/96	E154130	--	<1	<1	--	--	--	--
12/12/96	E161524	--	<1	<1	--	--	--	--
03/13/97	E166211	--	1.6	<1	--	--	--	--
06/19/97	E172383	--	<1	<1	--	--	--	--
09/11/97	E177743	--	<1	<1	--	--	--	--
12/16/97	E184902	--	<1	<1	--	--	--	--
03/12/98	E190821	--	<1	<1	--	--	--	--
06/16/98	82953-3398	--	<1	<2	--	--	--	--
09/17/98	84367-8365	--	<1	<1	--	--	--	--
12/16/98	85755-2521	--	<1	<1	--	--	--	--
03/10/99	90995-6092	--	<1	<1	--	--	--	--
06/15/99	3990294013	--	<1	<2	--	--	--	--
09/20/99	3991971007	--	<1	<1	--	--	--	--
12/16/99	3993622013	--	<1	<1	--	--	--	--

-- Not analyzed

DCE = Dichloroethene

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary**

**SITE:** C-1 **ELEVATION:** top of culvert - 663.20  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Copper	Total Hardness
03/16/00	3001152010	--	<1	<1	--	--	--	--
06/13/00	3002633012	--	<1	1.2	--	--	--	--
09/22/00	E261226	--	<1	<1	--	--	--	--
12/20/00	E268216	--	<1	<1	--	--	--	--
03/21/01	E274381	--	1.4	<1	--	--	--	--
06/13/01	E281017	--	2.3	2.5	--	--	--	--
09/13/01	E287741	--	1.3	<1	--	--	<20	292000
12/19/01	E295709	--	<1	<1	--	--	<20	DL 104000
03/28/02	<sup>(1)</sup> -032802-TJ-015	--	1.9	1.8	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-034	--	1.1	<1	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-056	--	<1	<1	--	--	--	--
12/09/02	<sup>(1)</sup> -120902-JB-086	--	<1	<1	--	--	--	--
*12/9/2002	<sup>(1)</sup> -120902-JB-087	--	<1	<1	--	--	<1	<1
03/21/03	<sup>(1)</sup> -032103-JB-106	--	<1	--	<1	<1	--	--
07/14/03	<sup>(1)</sup> -071403-SP-050	1.0 U	<1	--	<1	<1	--	--
10/01/03	<sup>(1)</sup> -100103-JB-080	2.0	1.4	--	5.2	<1	--	--
12/18/03	<sup>(1)</sup> -121803-JB-108	0.63 J	<1	--	<1	<1	--	--
03/15/04	<sup>(1)</sup> -031504-BW-134	2.8	<1	--	<1	<1	--	--
10/06/04	<sup>(1)</sup> -100604-DCR-278	0.59 J	<1	--	<1	<1	--	--
12/02/04	<sup>(1)</sup> -120204-DCR-318	0.66 J	<2	--	<1	<1	--	--
04/05/05	<sup>(1)</sup> -040505-DCR-342	9.8 J	1.4	--	1.4	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-388	2.8	0.61 J	--	1.0 U	0.58 J	1.0 U	1.0 U
12/06/05	<sup>(1)</sup> -120605-DCR-388	0.99 J	1.9	--	3.1 J	1.0 U	--	--
09/12/06	<sup>(1)</sup> -091206-DR-038	1.0 J	0.5 J	--	0.33 J	1.0 U	--	--
05/08/07	<sup>(1)</sup> -050807-JY-052	1.5	2.7	1.0 U	4.5	1.0 U	--	--
10/15/07	<sup>(1)</sup> -101507-DR-095	1.4	0.47 J	1.0 U	0.43 J	1.0 U	--	--
04/21/08	<sup>(1)</sup> -042108-DR-150	9.1 J	1.5	1.0 U	1.0 U	1.0 U	--	--
10/06/08	<sup>(1)</sup> -100608-DR-198	7.6 J	1.5	--	2.2	1.0 U	--	--
10/06/08	<sup>(1)</sup> -100608-DR-199	7.7 J	1.5	--	2.1	1.0 U	--	--
04/06/09	<sup>(1)</sup> -040609-DR-235	8.2	1.3	--	1.9	1.0 U	--	--

DL = The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

-- Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

\* Duplicate

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**ELEVATION: top of culvert - 657.02**

**SITE: C-2**  
**REVISION: 7/8/2009**  
**UNITS: ug/L**

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/21/88	E11602	--	4	4	--	--	--	--
03/17/89	E15515	--	3.9	3.8	--	--	--	--
06/15/89	E21127	--	3	3.7	--	--	--	--
09/22/89	E25728	--	3	4	--	--	--	--
12/21/89	E30995	--	2	4	--	--	--	--
03/16/90	E35828	--	3	5	--	--	--	--
06/19/90	E42022	--	3	4	--	--	--	--
09/14/90	E48226	--	3	5	--	--	--	--
12/17/90	E54820	--	4	5	--	--	--	--
03/11/91	E59918	--	4	<1	--	--	--	--
06/13/91	E67567	--	4	6	--	--	--	--
09/12/91	E72974	--	3	4	--	--	--	--
12/13/91	E07649	--	3	4	--	--	--	--
03/13/92	E15390	--	4	5	--	--	--	--
06/12/92	E23268	--	3.9	8.6	--	--	--	--
09/11/92	E31923	--	3.3	6.8	--	--	--	--
12/10/92	E40328	--	3	3	--	--	--	--
03/11/93	E47629	--	1.8	1.1	--	--	--	--
06/15/93	E56582	--	3.2	4.5	--	--	--	--
09/15/93	E66051	--	4.6	9.8	--	--	--	--
12/17/93	E75749	--	2.8	4.4	--	--	--	--
03/16/94	E81248	--	4.1	7.7	--	--	--	--
06/14/94	E89401	--	1.9	1.9	--	--	--	--
09/14/94	E97449	--	2.3	3.8	--	--	--	--
12/16/94	E106402	--	2.4	3.4	--	--	--	--
03/17/95	E112945	--	3	4.4	--	--	--	--
06/20/95	E120797	--	2.3	3.6	--	--	--	--
09/14/95	E127387	--	1.5	2.7	--	--	--	--
12/18/95	E134968	--	1.9	3.6	--	--	--	--
03/19/96	E139848	--	<1	<1	--	--	--	--
06/13/96	E146847	--	2.8	4.7	--	--	--	--
09/13/96	E154129	--	2.5	4.8	--	--	--	--
12/12/96	E161525	--	2.5	4.2	--	--	--	--
03/13/97	E166221	--	3.1	4.5	--	--	--	--
06/19/97	E172384	--	1.6	4.1	--	--	--	--
09/11/97	E177744	--	2.3	4.2	--	--	--	--
12/16/97	E184908	--	2.1	4.4	--	--	--	--
03/12/98	E190820	--	<1	2.7	--	--	--	--
06/16/98	82953-3405	--	1	2	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**ELEVATION: top of culvert - 657.02**

**SITE:** C-2  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/17/98	84367-8371	--	<1	1	--	--	--	--
12/16/98	85755-2558	--	2	2	--	--	--	--
03/10/99	90995-6097	--	1	2	--	--	--	--
06/15/99	3990294019	--	1.9	2.4	--	--	--	--
09/20/99	3991971013	--	2	2.3	--	--	--	--
12/16/99	3993622016	--	1.8	2.4	--	--	--	--
03/16/00	3001152015	--	1.7	2.4	--	--	--	--
06/13/00	3002633016	--	2	4.2	--	--	--	--
09/22/00	E261228	--	2.5	8.9	--	--	--	--
12/20/00	E268219	--	3.2	7.3	--	--	--	--
03/21/01	E274383	--	2	4.8	--	--	--	--
06/14/01	E281023	--	2.5	5.2	--	--	--	--
09/13/01	E287744	--	2.8	2.8	--	--	--	--
12/19/01	E295716	--	<1	<1	--	--	--	--
03/28/02	(1)-032802-TJ-017	--	2.4	5.2	--	--	--	--
06/27/02	(1)-062702-JB-030	--	1.9	3.9	--	--	--	--
09/26/02	(1)-092602-JB-057	--	2.2	~3.8	--	--	--	--
12/09/02	(1)-120902-JB-081	--	2.0	~4.0	--	--	--	--
03/21/03	(1)-032103-JB-102	--	2.1	--	--	--	<1	--
07/14/03	(1)-071403-SP-051	0.89 J	1.6	--	<1	--	<1	<1
10/01/03	(1)-100103-JB-081	1.9	1.4	--	<1	--	<1	0.70
12/18/03	(1)-121803-JB-109	0.61 J	<1	--	<1	--	<1	<1
03/15/04	(1)-031504-BW-130	1.6	1.5	--	<1	--	<1	<1
10/06/04	(1)-100604-DCR-279	1.2	1.6	--	<1	--	<1	0.42
12/02/04	(1)-120104-DCR-319	1.7	1.9	--	<1	--	<1	0.35
04/05/05	(1)-040505-DCR-343	4.4 J	2.5	--	<1	--	<1	0.61 J
06/28/05	(1)-062805-DCR-389	1.3	1.5	--	1.0 U	--	1.0 U	0.29 J
12/06/05	(1)-120605-DCR-583	0.26 J	0.30 J	--	1.0 U	1.0 U	1.0 U	1.0 U
09/12/06	(1)-091206-DR-039	1.1 J	1.3	--	1.0 U	2.8 J	1.0 U	0.44 J
05/08/07	(1)-050807-JY-053	3.9	1.7	1.0 U	1.0 U	4	1.0 U	0.37 J
10/15/07	(1)-101507-DR-096	1.4	1.4	1.0 U	1.0 U	2.2	1.0 U	0.27 J
04/21/08	(1)-042108-DR-145	1.0 UJ	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	(1)-100608-DR-187	3.5 J	1.2	--	1.0 U	2.3	1.0 U	0.22 J
04/06/09	(1)-040609-DR-236	2.7	0.96 J	--	1.0 U	2	1.0 U	0.29 J

DCE = Dichloroethene

-- = Not analyzed  
(1) Full sample number includes GW-17360

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: C-3  
 REVISION: 7/8/2009  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/21/88	E11603	--	5	11	--	--	--	--
03/16/89	E15516	--	9.1	16	--	--	--	--
06/15/89	E21128	--	2.6	3.7	--	--	--	--
09/22/89	E25729	--	3	4	--	--	--	--
12/21/89	E30996	--	3	4	--	--	--	--
03/16/90	E35829	--	2	8	--	--	--	--
06/19/90	E42023	--	2	6	--	--	--	--
09/14/90	E48227	--	2	4	--	--	--	--
12/17/90	E54821	--	5	9	--	--	--	--
03/11/91	E59919	--	5	<1	--	--	--	--
06/13/91	E67568	--	4	4	--	--	--	--
09/12/91	E72975	--	4	6	--	--	--	--
12/13/91	E07650	--	3	11	--	--	--	--
03/13/92	E15392	--	3	6	--	--	--	--
06/12/92	E23264	--	3.2	4.6	--	--	--	--
09/11/92	E31919	--	3	3.3	--	--	--	--
12/11/92	E40329	--	3	4	--	--	--	--
03/11/93	E47633	--	1.8	1.3	--	--	--	--
06/15/93	E56580	--	2.9	12	--	--	--	--
09/15/93	E66048	--	3.7	4.1	--	--	--	--
12/17/93	E75747	--	3	5.2	--	--	--	--
03/16/94	E81245	--	3.3	4.4	--	--	--	--
06/14/94	E89397	--	1.7	2.3	--	--	--	--
09/14/94	E97447	--	1.5	2.8	--	--	--	--
12/16/94	E106401	--	2	2.1	--	--	--	--
03/17/95	E112946	--	3.3	6.3	--	--	--	--
06/20/95	E120799	--	2.9	4.4	--	--	--	--
09/14/95	E127386	--	1.8	2.4	--	--	--	--
12/18/95	E134969	--	2.8	4.2	--	--	--	--
03/19/96	E139850	--	2.8	4.8	--	--	--	--
06/13/96	E146852	--	3.9	8.3	--	--	--	--
09/13/96	E154133	--	3.5	5.5	--	--	--	--
12/12/96	E161529	--	4.2	4.3	--	--	--	--
03/13/97	E166223	--	4.1	7.5	--	--	--	--
06/19/97	E172389	--	2.1	5.7	--	--	--	--
09/11/97	E177750	--	3	4.9	--	--	--	--
12/16/97	E184912	--	2.8	4.3	--	--	--	--
03/13/98	E190825	--	2.4	6	--	--	--	--
06/16/98	82953-3409	--	1	2	--	--	--	--
09/17/98	84367-8375	--	1	2	--	--	--	--
12/16/98	85755-2530	--	2	2	--	--	--	--
03/10/99	90995-6107	--	3	3	--	--	--	--
06/15/99	3990294023	--	2.1	3.3	--	--	--	--
09/20/99	3991971019	--	1.8	2.6	--	--	--	--
12/16/99	3993622021	--	1.1	1.6	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: C-3  
 REVISION: 7/8/2009  
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152018	--	1.2	1.8	--	--	--	--
06/13/00	3002633019	--	2.4	5	--	--	--	--
09/22/00	E261229	--	2.6	7.8	--	--	--	--
12/20/00	E268223	--	4	11	--	--	--	--
03/21/01	E274388	--	2.9	9.7	--	--	--	--
06/14/01	E281025	--	3.9	9.5	--	--	--	--
09/13/01	E287747	--	4.2	5.2	--	--	--	--
12/19/01	E295719	--	<1	<1	--	--	--	--
03/28/02	<sup>(1)</sup> -032802-TJ-016	--	3.8	9.8	--	--	--	--
06/27/02	<sup>(1)</sup> -062702-JB-029	--	2.3	6.2	--	--	--	--
09/26/02	<sup>(1)</sup> -092602-JB-058	--	2.8	~6.5	--	--	--	--
12/9/2002	<sup>(1)</sup> -120902-JB-085	--	2.4	~6.6	--	--	--	--
3/21/2003	<sup>(1)</sup> -032103-JB-105	--	2.5	--	--	7.9	<1	--
7/14/2003	<sup>(1)</sup> -071403-SP-052	2.3	1.6	--	<1	7.4	<1	1.1
10/1/2003	<sup>(1)</sup> -100103-JB-082	1.9	1.5	--	<1	5.3	<1	0.79
12/18/2003	<sup>(1)</sup> -121803-JB-107	0.60 J	<1	--	<1	<1	<1	<1
3/15/2004	<sup>(1)</sup> -031504-BW-128	1.0 U	<1	--	<1	<1	<1	<1
10/6/2004	<sup>(1)</sup> -100604-DCR-280	2.3	1.3	--	<1	4.2	<1	1.0
12/2/2004	<sup>(1)</sup> -120204-DCR-320	3.0	1.8	--	<1	6.3	<1	0.58
04/05/05	<sup>(1)</sup> -040505-DCR-344	7.2 J	2.4	--	<1	9.4	0.23 J	0.99 J
06/29/05	<sup>(1)</sup> -062905-DCR-391	3.4	2	--	1.0 U	7.4	0.17 J	0.94 J
12/06/05	<sup>(1)</sup> -120605-DCR-578	2.7	1.8	--	1.0 U	4.4 J	1.0 U	0.55 J
09/12/06	<sup>(1)</sup> -091206-DR-040	2.6 J	1.6	--	1.0 U	4.6 J	1.0 U	1
5/8/2007	<sup>(1)</sup> -050807-JY-054	8.6	2.5	1.0 U	1.0 U	7	1.0 U	0.92 J
10/15/2007	<sup>(1)</sup> -101507-DR-097	3.7	1.6	1.0 U	1.0 U	3.5	1.0 U	0.57 J
4/21/2008	<sup>(1)</sup> -042108-DR-140	4.5 J	1.1	1.0 U	1.0 U	3	1.0 U	0.46 J
10/6/2008	<sup>(1)</sup> -100608-DR-192	7.2 J	2	--	1.0 U	4.3	1.0 U	0.53 J
4/6/2009	<sup>(1)</sup> -040609-DR-237	6.1	1.3	--	1.0 U	3.4	1.0 U	0.57 J

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW1-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	<sup>(1)</sup> -071403-SP-045	72	1.6	--	<2	2.7	<2	<2
10/03/03	<sup>(1)</sup> -100303-JB-091	83	1.7	--	<3.3	2.6	<3.3	<3.3
12/18/03	<sup>(1)</sup> -121803-JB-118	86	1.4	--	<3.3	0.91	<3.3	<3.3
03/16/04	<sup>(1)</sup> -031604-BW-145	110	1.1	--	<4	<4	<4	<4
10/05/04	<sup>(1)</sup> -100504-DCR-260	190	<8.3	--	<8.3	<8.3	<8.3	<8.3
12/03/04	<sup>(1)</sup> -120304-DCR-324	110	1.9	--	<5.0	3.0	<5.0	<5.0
04/06/05	<sup>(1)</sup> -040605-DCR-364	140	3.5 J	--	<5.0	<5.0	<5.0	<5.0
06/28/05	<sup>(1)</sup> -062805-DCR-383	68	1.2 J	--	3.3 U	3.3 U	3.3 U	3.3 U
12/04/05	<sup>(1)</sup> -120405-DCR-560	180	2.7 J	--	6.7 U	5.8 J	6.7 U	6.7 U
09/12/06	<sup>(1)</sup> -091206-DR-034	62 J	3.3	--	2.0 U	3.9 J	2.0 U	2.0 U
05/09/07	<sup>(1)</sup> -050907-JY-082	280	5.8 J	8.7 U	8.7 U	13	8.7 U	8.7 U
10/16/07	<sup>(1)</sup> -101607-DR-123	320	7.1 J	10 U	10 U	15	10 U	10 U
04/22/08	<sup>(1)</sup> -042208-DR-172	310 J	7.6 J	10 U	10 U	3.7 J	10 U	10 U
10/08/08	<sup>(1)</sup> -100808-DR-228	340	7.0 J	--	10 U	7.1 J	10 U	10 U
04/07/09	<sup>(1)</sup> -040709-DR-259	380 J	7.3 J	--	11 U	3 J	11 U	11 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW1-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	<sup>(1)</sup> -071403-SP-045	72	1.6	--	<2	2.7	<2	<2
10/03/03	<sup>(1)</sup> -100303-JB-091	83	1.7	--	<3.3	2.6	<3.3	<3.3
12/18/03	<sup>(1)</sup> -121803-JB-118	86	1.4	--	<3.3	0.91	<3.3	<3.3
03/16/04	<sup>(1)</sup> -031604-BW-145	110	1.1	--	<4	<4	<4	<4
10/05/04	<sup>(1)</sup> -100504-DCR-260	190	<8.3	--	<8.3	<8.3	<8.3	<8.3
12/03/04	<sup>(1)</sup> -120304-DCR-324	110	1.9	--	<5.0	3.0	<5.0	<5.0
04/06/05	<sup>(1)</sup> -040605-DCR-364	140	3.5 J	--	<5.0	<5.0	<5.0	<5.0
06/28/05	<sup>(1)</sup> -062805-DCR-383	68	1.2 J	--	3.3 U	3.3 U	3.3 U	3.3 U
12/04/05	<sup>(1)</sup> -120405-DCR-560	180	2.7 J	--	6.7 U	5.8 J	6.7 U	6.7 U
09/12/06	<sup>(1)</sup> -091206-DR-034	62 J	3.3	--	2.0 U	3.9 J	2.0 U	2.0 U
05/09/07	<sup>(1)</sup> -050907-JY-082	280	5.8 J	8.7 U	8.7 U	13	8.7 U	8.7 U
10/16/07	<sup>(1)</sup> -101607-DR-123	320	7.1 J	10 U	10 U	15	10 U	10 U
04/22/08	<sup>(1)</sup> -042208-DR-172	310 J	7.6 J	10 U	10 U	3.7 J	10 U	10 U
10/08/08	<sup>(1)</sup> -100808-DR-228	340	7.0 J	--	10 U	7.1 J	10 U	10 U
04/07/09	<sup>(1)</sup> -040709-DR-259	380 J	7.3 J	--	11 U	3 J	11 U	11 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW2-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 22 to 27

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	<sup>(1)</sup> -071403-SP-044	14	<1	--	<1	<1	<1	<1
10/03/03	<sup>(1)</sup> -100303-JB-092	13	<1	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-117	7.2	<1	--	<1	<1	<1	<1
03/16/04	<sup>(1)</sup> -031604-BW-146	8.8	<2	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-261	11	0.65	--	<1	1.2	<1	<1
12/03/04	<sup>(1)</sup> -120304-DCR-323	13	1.2	--	<1	0.74	<1	<1
04/07/05	<sup>(1)</sup> -040705-DCR-368	12	<1	--	<1	<1	<1	<1
06/29/05	<sup>(1)</sup> -062905-DCR-399	16	0.46 J	--	1.0 U	0.21 J	1.0 U	1.0 UJ
12/06/05	<sup>(1)</sup> -120605-DCR-573	15	1.4 J	--	1.0 U	0.85 J	1.0 U	1.0 UJ
09/12/06	<sup>(1)</sup> 091206-JY-033	10 J	0.49 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> 050907-JY-080	10	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> 101607-DR-124	8.2	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> 042208-DR-171	7.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	<sup>(1)</sup> 100808-DR-226	8.6	0.44 J	--	1.0 U	1.0 U	1.0 U	1.0 U
*10/8/2008	<sup>(1)</sup> 100808-DR-227	8	0.42 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	<sup>(1)</sup> <sup>04</sup> 0809-DR-274	9.1	0.29 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

\*Dupliate



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW3-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L  
**ELEVATION:** top of casing -  
**DEPTH:** screen - 25 to 30

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/15/03	<sup>(1)</sup> -071503-SP-065	0.85 J	<1	--	<1	<1	<1	<1
10/03/03	<sup>(1)</sup> -100303-JB-093	0.90 J	<1	--	<1	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-119	0.78 J	<1	--	<1	<1	<1	<1
03/16/04	<sup>(1)</sup> -031604-BW-144	0.87 J	<2	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-262	1.0	<1	--	<1	<1	<1	<1
12/03/04	<sup>(1)</sup> -120304-DCR-325	1.2	<1	--	<1	<1	<1	<1
04/07/05	<sup>(1)</sup> -040705-DCR-369	1.1	<1	--	<1	<1	<1	<1
06/29/05	<sup>(1)</sup> -062905-DCR-397	1.0	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 UJ
06/29/05	<sup>(1)</sup> -062905-DCR-398	0.96 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/06/05	<sup>(1)</sup> -120605-DCR-579	0.84J	1.0 U	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-035	0.75 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-083	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-119	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-162	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-212	0.74 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-258	1	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** MW4-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 52 to 57

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	(1)-071403-SP-043	0.58 J	2	--	<1	<1	<1	<1
10/09/03	(1)-100903-JB-089	1.0 U	0.28	--	<1	<1	<1	<1
12/18/03	(1)-121803-JB-106	0.78 J	1.2	--	<1	<1	<1	<1
03/15/04	(1)-031504-BW-127	0.84 J	1.1	--	<1	<1	<1	<1
10/05/04	(1)-100504-DCR-251	0.89 J	2.4	--	0.48	1.1	0.42	<1
12/01/04	(1)-120104-DCR-287	1.1	5.7	--	0.81	2.6	0.42	<2
04/05/05	(1)-040505-DCR-337	1.2 J	3.9	--	0.50 J	1.3	0.55 J	0.27 J
06/27/05	(1)-062705-DCR-375	0.99 J	4.9	--	0.55 J	1.4	0.58 J	1.0 U
12/03/05	(1)-120305-DCR-552	0.89 J	14	--	0.84 J	2.0 J	1.0	0.26 J
09/12/06	(1)-091206-JY-025	0.95 J	13	--	0.4 J	0.56 J	0.35 J	1.0 UJ
05/09/07	(1)-050907-JY-071	0.91 J	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	(1)-101607-DR-110	0.78 J	6.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	(1)-042208-DR-153	0.83 J	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	(1)-100708-DR-200	0.61 J	2.5	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	(1)-040709-DR-249	0.62 J	0.96 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

(1) Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW5-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE
07/14/03	<sup>(1)</sup> -071403-SP-042	0.55 J	7.4	--	<1	<1	<1
10/09/03	<sup>(1)</sup> -100903-JB-090	0.38 J	6.2	--	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-115	0.70 J	9.8	--	<1	0.41	<1
03/15/04	<sup>(1)</sup> -031504-BW-123	0.60 J	6.8	--	<1	<1	<1
10/04/04	<sup>(1)</sup> -100404-DCR-245	0.50 J	5.7	--	<1	0.22	<1
11/30/04	<sup>(1)</sup> -113004-DCR-286	0.62 J	6.5	--	<1	0.4	<1
04/04/05	<sup>(1)</sup> -040405-DCR-335	0.70 J	6.9	--	0.24 J	1.2	0.36 J
06/29/05	<sup>(1)</sup> -062905-DCR-394	0.49 J	4.8	--	1.0 U	0.61 J	0.16 J
12/06/05	<sup>(1)</sup> -120605-DCR-577	0.61 J	5.9	--	1.0 U	0.57 J	0.17 J
09/11/06	<sup>(1)</sup> -091106-JY-018	0.55 J	3.6	--	1.0 U	0.78 J	0.23 J
05/08/07	<sup>(1)</sup> -050807-JY-63	0.48 J	3.3	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	<sup>(1)</sup> -101507-DR-108	0.6 J	3.1	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	<sup>(1)</sup> -042108-DR-142	0.61 J	2.7	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-191	0.5 J	1.6	--	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-245	0.6 J	1.7	--	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

Vinyl Chloride

<1  
<1  
<1  
<1  
<1  
<1  
<1  
1.0 UJ  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW6-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 13 to 18

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE
07/14/03	<sup>(1)</sup> -071403-SP-041	1.0 U	<1	--	<1	<1	<1
10/02/03	<sup>(1)</sup> -100203-JB-088	0.41 J	<1	--	<1	<1	<1
12/18/03	<sup>(1)</sup> -121803-JB-111	0.16 J	1.2	--	<1	<1	<1
03/15/04	<sup>(1)</sup> -031504-BW-121	1.0 U	<1	--	<1	<1	<1
10/04/04	<sup>(1)</sup> -100404-DCR-243	1.0 U	0.5	--	<1	<1	<1
11/30/04	<sup>(1)</sup> -113004-DCR-282	1.0 U	0.58	--	<1	<1	<1
*11/30/04	<sup>(1)</sup> -113004-DCR-282	1.0 U	0.59	--	<1	<1	<1
04/04/05	<sup>(1)</sup> -040405-DCR-332	1.0 U	0.57 J	--	<1	<1	<1
06/27/05	<sup>(1)</sup> -062705-DCR-372	1.0 U	0.42 J	--	1.0 U	1.0 U	1.0 U
06/27/05	<sup>(1)</sup> -062705-DCR-373	1.0 U	0.45 J	--	1.0 U	1.0 U	1.0 U
12/02/05	<sup>(1)</sup> -120205-DCR-505	1.0 UJ	0.34 J	--	1.0 U	1.0 UJ	1.0 U
09/11/06	<sup>(1)</sup> -091106-JY-015	1.0 UJ	0.38 J	--	1.0 U	1.0 U	1.0 U
05/08/07	<sup>(1)</sup> -050807-JY-061	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	<sup>(1)</sup> -101507-DR-104	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-189	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-242	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360

Vinyl Chloride

<1  
<1  
<1  
<1  
<1  
<1  
<1  
<1  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U  
1.0 U

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW7-03  
**REVISION:** 7/8/2009  
**UNITS:** ug/L  
**ELEVATION:** top of casing -  
**DEPTH:** screen - 36 to 41

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/15/03	<sup>(1)</sup> -071503-SP-041	1.0 U	0.54	--	<1	<1	<1	<1
09/30/03	<sup>(1)</sup> -093003-JB-071	1.0 U	0.37	--	<1	<1	<1	<1
12/17/03	<sup>(1)</sup> -121703-JB-102	1.0 U	0.9	--	<1	<1	<1	<1
03/16/04	<sup>(1)</sup> -031604-BW-135	1.0 U	<1	--	<1	<1	<1	<1
*03/16/04	<sup>(1)</sup> -031604-BW-136	1.0 U	<1	--	<1	<1	<1	<1
10/05/04	<sup>(1)</sup> -100504-DCR-254	1.0 U	0.74	--	<1	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-302	1.0 U	0.78	--	<1	<1	<1	<1
04/05/05	<sup>(1)</sup> -040505-DCR-339	1.0 UJ	0.75 J	--	0.19 J	0.80 J	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-377	1.0 U	0.75 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	<sup>(1)</sup> -120405-DCR-556	1.0 UJ	0.60 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-027	1.0 UJ	0.79 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-075	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-125	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	<sup>(1)</sup> -042308-DR-181	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-205	1.0 U	0.88 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-254	1.0 U	0.92 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW8-04 **ELEVATION:** top of casing -  
**REVISION:** 7/8/2009 **DEPTH:** screen - 30 to 35  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/04/04	<sup>(1)</sup> -100404-DCR-244	0.33 J	2.9	--	<1	0.22	<1	<1
11/30/04	<sup>(1)</sup> -113004-DCR-285	0.45 J	3.1	--	<1	0.52	<1	<1
04/04/05	<sup>(1)</sup> -040405-DCR-334	0.42 J	2.9	--	<1	0.80 J	0.19 J	<1
06/27/05	<sup>(1)</sup> -062705-DCR-374	0.39 J	1.8	--	1.0 U	0.30 J	1.0 U	1.0 U
12/03/05	<sup>(1)</sup> -120305-DCR-551	0.35 J	1.6	--	1.0 U	0.26 J	1.0 U	1.0 U
09/11/06	<sup>(1)</sup> -091106-JY-019	0.42 J	1.6	--	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	<sup>(1)</sup> -050807-JY-062	0.27 J	0.89 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	<sup>(1)</sup> -101507-DR-106	0.39 J	0.91 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	<sup>(1)</sup> -042108-DR-143	0.34 J	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-190	1.0 UJ	0.55 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -1040709-DR-244	1.0 U	0.55 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW9-04  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

**ELEVATION:** top of casing -  
**DEPTH:** screen - 43 to 48

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	<sup>(1)</sup> -100504-DCR-250	0.49 J	2.4	--	0.30	0.88	0.20	<1
12/01/04	<sup>(1)</sup> -120104-DCR-294	0.69 J	4	--	0.36	1.6	0.48	<1
04/05/05	<sup>(1)</sup> -040505-DCR-347	0.65 J	3.1	--	<1	0.23 J	<1	<1
06/29/05	<sup>(1)</sup> -062905-DCR-395	0.54 J	1.8	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/06/05	<sup>(1)</sup> -120605-DCR-574	0.60 J	2.8	--	0.33 J	1.4 J	0.41 J	1.0 U
09/12/06	<sup>(1)</sup> -091206-DR-024	0.52 J	2.8	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-072	0.47 J	0.72 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-109	0.58 J	0.97 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-152	0.52 J	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	<sup>(1)</sup> -100608-DR-196	0.44 J	0.73 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-247	0.48 J	0.63 J	--	1.0 U	1.0 U	1.0 U	1.0 U
*4/7/2009	<sup>(1)</sup> -040709-DR-248	0.46 J	0.62 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

\*Duplicate

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW10-04 **ELEVATION:** top of casing -  
**REVISION:** 7/8/2009 **DEPTH:** screen - 33 to 38  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	<sup>(1)</sup> -100504-DCR-249	1.0 U	12	--	0.59	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-289	1.0 U	12	--	0.39	<1	<1	<1
04/05/05	<sup>(1)</sup> -040505-DCR-338	1.0 UJ	7.9	--	0.58 J	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-376	1.0 U	6.3	--	0.46 J	1.0 U	1.0 U	1.0 U
12/03/05	<sup>(1)</sup> -120305-DCR-553	1.0 UJ	4.7	--	0.39 J	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-021	1.0 UJ	5.1	--	0.25 J	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-070	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-111	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-156	1.0 UJ	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-201	1.0 UJ	1.4	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/08	<sup>(1)</sup> -040709-DR-250	1.0 U	1.3	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW11D-04 **ELEVATION:** top of casing -  
**REVISION:** 7/8/2009 **DEPTH:** screen - 40 to 45  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	<sup>(1)</sup> -100504-DCR-248	28	43	--	<1	70	6.2	<1
12/01/04	<sup>(1)</sup> -120104-DCR-291	34	39	--	<5	150	6.8	<5
*12/01/04	<sup>(1)</sup> -120104-DCR-293	34	37	--	<5	150	6.5	<5
04/05/05	<sup>(1)</sup> -040505-DCR-348	15 J	25	--	<1	23	3	<1
06/29/05	<sup>(1)</sup> -062905-DCR-396	9.8	12	--	1.0 U	4.7	0.70 J	1.0 UJ
12/06/05	<sup>(1)</sup> -120605-DCR-580	18	32	--	1.0 U	78 J	4.6	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-023	7.3 J	7.4	--	1.0 U	2	0.28 J	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-068	1.2	2.8	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> 101607-DR-113	1.2	4.1	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-154	1.8 J	2.7	1.0 U	1.0 U	2.4	0.35 J	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-203	0.79 J	1.9	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-252	0.54 J	2.4	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



SITE: MW11S-05  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing -  
DEPTH: screen -

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/12/06	<sup>(1)</sup> -091206-JY-022	1.0 UJ	0.47 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-069	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-114	1.0 U	0.45 J	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-155	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-202	1.0 UJ	0.36 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(1)</sup> -040709-DR-251	1.0 U	0.58 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** MW13-04 **ELEVATION:** top of casing -  
**REVISION:** 7/8/2009 **DEPTH:** screen - 25 to 30  
**UNITS:** ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	<sup>(1)</sup> -100504-DCR-264	1.0 U	<1	--	<1	<1	<1	<1
12/02/04	<sup>(1)</sup> -120204-DCR-315	1.0 U	<1	--	<1	<1	<1	<1
04/06/05	<sup>(1)</sup> -040605-DCR-356	1.0 U	<1	--	<1	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-386	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
12/05/05	<sup>(1)</sup> -120505-DCR-564	1.0 UJ	1.0 U	--	1.0 UJ	1.0 U	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-JY-037	1.0 UJ	1.0 U	--	1.0 U	1.0 UJ	1.0 U	1.0 U
05/10/07	<sup>(1)</sup> -051007-JY-084	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/07	<sup>(1)</sup> -101607-DR-127	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	<sup>(1)</sup> -042308-DR-173	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	<sup>(1)</sup> -100808-DR-224	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	<sup>(1)</sup> -040809-DR-268	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



General Motors  
 Grand Rapids Metal Fabrication Plant  
 Monitoring Well Data Summary/Analytical Data

SITE: MW14-04  
 REVISION: 7/8/2009  
 UNITS: ug/L  
 ELEVATION: top of casing -  
 DEPTH: screen - 45 to 50

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/06/04	<sup>(1)</sup> -100604-DCR-274	1.0 U	0.34	--	<1	<1	<1	<1
*10/06/04	<sup>(1)</sup> -100604-DCR-275	1.0 U	0.31	--	0.25	<1	<1	<1
12/02/04	<sup>(1)</sup> -120204-DCR-309	1.0 U	0.30	--	<1	<1	<1	<1
04/06/05	<sup>(1)</sup> -040605-DCR-360	1.0 U	0.40 J	--	<1	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-385	1.0 U	0.31 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	<sup>(1)</sup> -120405-DCR-561	1.0 UJ	0.34 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-DR-050	1.0 UJ	0.37 J	--	1.0 U	1.0 UJ	1.0 U	1.0 UJ
05/10/07	<sup>(1)</sup> -051007-JY-088	1.0 UJ	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/07	<sup>(1)</sup> -101707-DR-130	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-164	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-218	1.0 U	0.67 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/08	<sup>(1)</sup> -040809-DR-261	1.0 U	1.6	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: MW15-04  
 REVISION: 7/8/2009  
 UNITS: ug/L  
 ELEVATION: top of casing -  
 DEPTH: screen - 25 to 30

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	<sup>(1)</sup> -100504-DCR-258	1.0 U	2.3	--	0.99	<1	<1	<1
12/01/04	<sup>(1)</sup> -120104-DCR-303	1.0 U	2.2	--	0.71	<1	<1	<1
*12/01/04	<sup>(1)</sup> -120104-DCR-304	1.0 U	2.3	--	0.77	<1	<1	<1
04/05/05	<sup>(1)</sup> -040655-DCR-349	1.0 UJ	2.0	--	<1	<1	<1	<1
*4/5/2005	<sup>(1)</sup> -040655-DCR-350	1.0 UJ	2.0	--	1.3	<1	<1	<1
06/28/05	<sup>(1)</sup> -062805-DCR-380	1.0 U	2.4	--	1.1	1.0 U	1.0 U	1.0 U
12/04/05	<sup>(1)</sup> -120405-DCR-558	1.0 UJ	1.5	--	0.61 J	1.0 UJ	1.0 U	1.0 U
09/12/06	<sup>(1)</sup> -091206-DR-029	1.0 UJ	0.46 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	<sup>(1)</sup> -050907-JY-078	1.0 U	3.2	1.0 U	1.5	0.22 J	1.0 U	1.0 U
10/16/07	<sup>(1)</sup> -101607-DR-118	1.0 U	3.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	<sup>(1)</sup> -042208-DR-158	1.0 UJ	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	<sup>(1)</sup> -100708-DR-208	1.0 U	2.4	--	0.41 J	1.0 U	1.0 U	1.0 U
04/06/09	<sup>(1)</sup> -040609-DR-239	1.0 U	1.5	--	0.25 J	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



SITE: MW17-06  
REVISION: 7/8/2009  
UNITS: ug/L

ELEVATION: top of casing -  
DEPTH: screen -

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/12/06	<sup>(1)</sup> -091106-DR-009	23 J	16	--	4.0 U	140 J	4	4.0 U
05/08/07	<sup>(1)</sup> -050807-JY-056	17	9.5	2.0 U	2.0 U	61	1.4 J	2.0 U
10/15/07	<sup>(1)</sup> -101507-DR-098	25	11	3.3 U	3.3 U	84	1.8 J	3.3 U
04/22/08	<sup>(1)</sup> -042208-DR-157	18	7	1.4 U	1.4 U	48	1.4	1.4 U
10/06/08	<sup>(1)</sup> -100608-DR-197	20	7.7	--	1.7 U	52	1.2 J	1.7 U
04/06/09	<sup>(1)</sup> -040609-DR-234	24	6.6	--	1.0 U	31	0.97 J	1.0 U

-- = Not analyzed

DCE = Dichloroethene

<sup>(1)</sup> Full sample number includes GW-17360



**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: Field-Blk  
 REVISION: 7/8/2009  
 UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA
12/21/88	E11605	3	<2	--	--	--
03/17/89	E15528	<1	<1	--	--	--
06/15/89	U00160	E	E	--	--	E
08/22/89	E24444	<1	--	--	--	--
09/20/89	E25607	<1	<1	--	--	--
10/13/89	E26927	<1	<1	--	--	--
11/17/89	E29150	<1	<1	--	--	--
12/21/89	E31004	<1	<1	<1	<1	--
01/12/90	E31897	<1	<1	--	--	--
02/16/90	E33920	<1	<1	--	--	<1
03/16/90	E35833	<1	<1	--	--	<1
04/12/90	E37260	<1	<1	--	--	<1
05/18/90	E39760	<1	<1	--	--	<1
06/18/90	E42009	<1	<1	--	--	<1
07/13/90	E44007	<1	<1	--	--	<1
08/20/90	E46576	1	<1	--	--	<1
09/14/90	E48213	<1	<1	--	--	<1
10/12/90	E50166	<1	<1	--	--	<1
11/15/90	E52801	<1	<1	--	--	<1
12/17/90	E54829	<2	<2	<2	<10	--
03/11/91	E59924	<1	<1	--	--	--
06/13/91	E67560	<1	<1	--	--	<1
09/12/91	E72990	<1	<1	--	--	<1
12/13/91	E07659	<1	--	<1	<1	<1
03/13/92	E15395	<1	<1	--	--	<1
06/12/92	E23270	<1	<1	--	--	<1
09/11/92	E31924	<1	<1	--	--	<1
12/10/92	E40338	<1	--	<1	<1	<1
03/11/93	E47626	1.1	<1	--	--	<1
06/14/93	E56592	<1	<1	--	--	<1
09/15/93	E66054	HT<1	HT<1	--	--	HT<1
12/17/93	E75758	<1	<1	<1	<1	<1
03/16/94	E81252	<1	<1	--	--	<1
06/14/94	E89404	<1	<1	--	--	<1
09/14/94	E97454	<1	<1	--	--	<1
12/16/94	E106393	<1	<1	<1	<1	<1
03/17/95	E112957	<1	<2	--	--	<1
06/20/95	E120798	<1	<2	--	--	<1
09/14/95	E127377	<1	<2	--	--	<1
12/18/95	E134979	<1	<1	<1	<1	--

-- = Not analyzed

TCE = Trichloroethene

DCE = Dichloroethene

TCA = Trichloroethane

E = Lab Error

HT = Analysis performed beyond EPA established maximum allowable holding time.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** Field-Blk  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA
03/19/96	E139855	<1	<1	--	--	<1
06/13/96	E147338	<1	<1	--	--	<1
09/13/96	E154137	<1	<1	--	--	<1
12/13/96	E161531	<1	<1	<1	<1	<1
03/13/97	E166209	<1	<1	--	--	<1
06/19/97	E172381	<1	<1	--	--	<1
09/11/97	E177745	<1	<1	--	--	<1
12/16/97	E184903	<1	<1	<1	<1	--
03/12/98	E190816	<1	<1	--	--	--
06/16/98	82953-3402	<1	<2	--	--	--
09/17/98	84367-8369	<1	<1	--	--	--
12/16/98	85755-2524	<1	<1	<1	<1	--
03/10/99	90995-6094	<1	<1	--	--	--
06/15/99	3990294014	<1	<2	--	--	--
09/20/99	3991971010	<1	<1	--	--	--
12/16/99	3993622001	<1	<1	<1	<1	--
06/13/00	3002633011	<1	<1	--	--	--
09/22/00	E261232	<1	<1	--	--	--
12/20/00	E268214	<1	<1	<1	<1	--
03/21/01	E274384	<1	<1	--	--	--
06/14/01	E281019	<1	<1	--	--	--
09/13/01	E287757	<1	<1	--	--	--
12/19/01	E287757	SS<1	SS<1	SS<1	SS<1	--

-- = Not analyzed      TCE = Trichloroethene      DCE = Dichloroethene      TCA = Trichloroethane  
SS = Surrogate spike result had a percent recovery outside the upper control limit.  
This result must be considered estimated.

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

**SITE:** Trip-Blk  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
03/16/89	E15529	<1	<1	--	--	--	--	--
06/15/89	U00161	LE	LE	--	--	--	--	LE
08/22/89	E24443	2.9	--	--	--	--	--	--
10/13/89	E26926	<1	<1	--	--	--	--	--
11/17/89	E29149	<1	<1	--	--	--	--	--
01/12/90	E31896	<1	<1	--	--	--	--	--
02/16/90	E33919	<1	<1	--	--	--	--	<1
03/16/90	E35832	<1	<1	--	--	--	--	<1
04/12/90	E37259	<1	<1	--	--	--	--	<1
04/25/90	E39759	<1	<1	--	--	--	--	<1
06/18/90	E42008	<1	<1	--	--	--	--	<1
07/12/90	E44006	2	<1	--	--	--	--	<1
08/20/90	E46575	B	B	--	--	--	--	B
09/14/90	E48212	<1	<1	--	--	--	--	<1
10/02/90	H3935	<5	--	--	--	--	<5	<5
10/12/90	E50165	<1	<1	--	--	--	--	<1
11/15/90	E52800	<1	<1	--	--	--	--	<1
12/18/90	E54831	<2	<2	<2	--	--	<10	--
03/11/91	U00162	LE	LE	--	--	--	--	--
06/13/91	E67570	<1	<1	--	--	--	--	<1
09/12/91	E72989	<1	<1	--	--	--	--	<1
11/20/91	E07660	<1	--	<1	--	--	<1	<1
03/13/92	E15396	<1	<1	--	--	--	--	<1
06/12/92	E23271	<1	<1	--	--	--	--	<1
08/13/92	E29154	<1	<1	--	--	--	--	--
09/11/92	E31906	<1	<1	--	--	--	--	<1
10/16/92	E35369	<1	--	--	--	--	--	--
11/12/92	E37806	<1	--	--	--	--	--	--
12/10/92	E40339	<1	--	<1	--	--	<1	<1
02/12/93	E45485	<1	--	--	--	--	--	--
03/11/93	E47616	<1	<1	--	--	--	--	<1
04/15/93	E50684	<1	--	--	--	--	--	--
05/13/93	E53157	<1	--	--	--	--	--	--
06/14/93	E56593	<1	<1	--	--	--	--	<1
07/16/93	E60031	<1	--	--	--	--	--	--
08/11/93	E62712	<1	--	--	--	--	--	--
09/15/93	E66053	<1	<1	--	--	--	--	<1
10/19/93	E69403	<1	--	--	--	--	--	--

-- = Not Analyzed  
LE = Lab Error

TCE = Trichloroethene  
B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

SITE: Trip-Blk  
 REVISION: 7/8/2009  
 UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
11/17/93	E72555	<1	--	--	--	--	--	--
12/17/93	E75759	<1	<1	<1	--	--	<1	<1
01/13/94	E77458	<1	--	--	--	--	--	--
03/16/94	E81253	<1	<1	--	--	--	--	<1
04/13/94	E83747	<1	--	--	--	--	--	--
05/06/94	E86250	<1	--	--	--	--	--	--
06/14/94	E89403	<1	<1	--	--	--	--	<1
07/13/94	E91966	<1	--	--	--	--	--	--
08/12/94	E94709	<1	--	--	--	--	--	--
09/14/94	E97455	<1	<1	--	--	--	--	<1
10/18/94	E100418	<1	--	--	--	--	--	--
11/11/94	E103081	<1	--	--	--	--	--	--
12/16/94	E106392	<1	<1	<1	--	--	<1	<1
01/13/95	E108555	<1	--	--	--	--	--	--
01/20/95	E109181	<1	--	--	--	--	--	--
02/14/95	E110634	<1	--	--	--	--	--	--
03/17/95	E112963	<1	<2	--	--	--	--	<1
04/14/95	E114840	<1	--	--	--	--	--	--
05/05/95	E116689	<1	--	<1	--	--	<1	<1
05/15/95	E117757	<1	--	--	--	--	--	--
06/20/95	E120785	<1	<2	--	--	--	--	<1
07/13/95	E122760	<1	--	--	--	--	--	--
08/14/95	E124915	<1	--	--	--	--	--	--
09/13/95	E127376	<1	<2	--	--	--	--	<1
12/18/95	E134965	<1	<1	<1	--	--	<1	<1
01/02/96	E136051	<1	--	--	--	--	--	--
02/15/96	E137784	<1	--	--	--	--	--	--
03/04/96	E140367	<1	--	--	--	--	--	--
04/04/96	E141882	<1	--	--	--	--	--	--
04/25/96	E143102	<1	--	--	--	--	--	--
05/16/96	E144471	<1	--	--	--	--	--	--
06/12/96	E146830	<1	--	--	--	--	--	--
06/19/96	E149320	<1	--	<1	--	--	--	--
07/31/96	E150439	<1	--	--	--	--	--	--
08/01/96	E151798	<1	--	--	--	--	--	--
09/05/96	E154110	<1	--	--	--	--	--	--
10/15/96	E156831	<1	--	--	--	--	--	--
11/18/96	E159731	<1	--	--	--	--	--	--
12/11/96	E161506	<1	--	--	--	--	--	--
12/11/96	E162083	<1	<1	<1	--	--	<1	<1

-- = Not Analyzed  
 LE = Lab Error

TCE = Trichloroethene  
 B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

**General Motors  
Grand Rapids Metal Fabrication Plant  
Monitoring Well Data Summary/Analytical Data**

SITE: Trip-Blk  
REVISION: 7/8/2009  
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
01/20/97	E163653	<1	--	--	--	--	--	--
02/11/97	E164986	<1	--	--	--	--	--	--
03/12/97	E166208	<1	<1	--	--	--	--	<1
03/31/97	E168313	<1	--	--	--	--	--	--
05/02/97	E170415	<1	--	--	--	--	--	--
06/04/97	E174139	<1	--	--	--	--	--	--
06/09/97	E172366	<1	--	--	--	--	--	--
07/20/97	E175817	<1	--	--	--	--	--	--
09/04/97	E177690	<1	--	--	--	--	--	--
10/13/97	E180330	<1	--	--	--	--	--	--
10/30/97	E182372	<1	--	--	--	--	--	--
12/16/97	E184895	<1	<1	<1	--	--	<1	--
12/26/97	E186120	<1	--	--	--	--	--	--
01/29/98	E188477	<1	--	--	--	--	--	--
03/10/98	E190687	<1	--	--	--	--	--	--
04/01/98	81905-9816	<1	<2	<1	--	--	<1	<1
04/29/98	82314-1285	<1	<2	--	--	--	<1	--
05/21/98	82953-3404	<1	<2	--	--	--	--	--
07/16/98	83403-4900	<1	--	--	--	--	--	--
07/24/98	83716-6295	<1	--	<1	--	--	<1	<1
08/19/98	83939-7016	<1	--	--	--	--	--	--
09/03/98	84367-8366	<1	<1	--	--	--	--	--
10/09/98	85278-1077	<1	--	--	--	--	--	--
11/20/98	90043-3143	<1	--	--	--	--	--	--
11/20/98	85858-2931	<1	--	<1	--	--	<1	<1
12/16/98	85755-2526	<1	<1	<1	--	--	<1	--
12/23/98	90148-3372	<1	--	--	--	--	--	--
02/15/99	91113-6518	<1	--	--	--	--	--	--
02/16/99	90635-4884	<1	--	--	--	--	--	--
03/03/99	90995-6099	<1	<1	--	--	--	--	--
03/24/99	91468-7712	<1	--	--	--	--	--	--
04/29/99	92011-9427	<1	--	--	--	--	--	--
05/19/99	3990294025	<1	<2	--	--	--	--	--
06/25/99	3990884001	<1	--	--	--	--	--	--
07/28/99	3991393001	<1	--	--	--	--	--	--
09/18/99	3991971009	<1	<1	--	--	--	--	--
10/18/99	3993099001	<1	--	--	--	--	--	--
10/19/99	3992560004	<1	--	--	--	--	--	--
12/16/99	3993622022	<1	<1	<1	--	--	<1	--
01/11/00	3000138001	<1	--	--	--	--	--	--
02/15/00	3000620001	<1	--	--	--	--	--	--
03/16/00	3001152020	<1	<1	--	--	--	--	--
06/13/00	3002633023	<1	<1	--	--	--	--	--
09/22/00	E261230	<1	<1	--	--	--	--	--
10/23/00	E263866	<1	--	--	--	--	--	--

-- = Not Analyzed  
LE = Lab Error

TCE = Trichloroethene  
B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Monitoring Well Data Summary/Analytical Data**

**SITE:** Trip-Blk  
**REVISION:** 7/8/2009  
**UNITS:** ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
11/13/00	E265857	<1	--	--	--	--	--	--
12/20/00	E268224	<1	<1	<1	--	--	<1	--
01/12/01	E269743	<1	--	--	--	--	--	--
01/31/01	E272135	<1	--	--	--	--	--	--
03/07/01	E274393	<1	<1	--	--	--	--	--
06/01/01	E281029	<1	<1	--	--	--	--	--
09/07/01	E287750	<1	<1	--	--	--	--	--
11/26/01	E295703	SS<1	SS<1	SS<1	--	--	SS<1	SS<1
03/28/02	Trip Blank	<1	<1	--	--	--	--	--
06/27/02	Trip Blank	<1	<1	--	--	--	--	--
09/27/02	Trip Blank	<1	<1	--	--	--	--	--
12/09/02	Trip Blank	<1	<1	<1	--	--	<1	--
03/21/03	Trip Blank	<1	--	--	<1	<1	--	--
07/14/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
07/15/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
10/15/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
12/18/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
03/16/04	Trip Blank	<2	--	<1	<1	<1	<1	<1
10/05/04	Trip Blank	<1	--	0.83	<1	<1	<1	<1
12/03/04	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/05/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/06/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/07/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
06/28/05	<sup>(U)</sup> -062805-DCR-390	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
06/29/05	<sup>(U)</sup> -062905-DCR-408	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
12/05/05	<sup>(U)</sup> -120505-DCR-570	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
12/06/05	<sup>(U)</sup> -120605-DCR-584	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
09/11/06	<sup>(U)</sup> -091106-DR-020	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
09/13/06	<sup>(U)</sup> -091306-DR-051	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	<sup>(U)</sup> -050807-JY-064	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
05/10/07	<sup>(U)</sup> -051007-JY-094	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	<sup>(U)</sup> -101607-DR-129	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/17/07	<sup>(U)</sup> -101707-DR-137	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	<sup>(U)</sup> -042108-DR-151	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	<sup>(U)</sup> -042308-DR-183	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	<sup>(U)</sup> -100808-DR-220	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	<sup>(U)</sup> -100808-DR-229	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	<sup>(U)</sup> -040709-DR-260	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	<sup>(U)</sup> -040809-DR-275	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

-- = Not Analyzed

TCE = Trichloroethene

DCE = Dichloroethene

TCA = Trichloroethane

LE = Lab Error

B = Vials Broken

**General Motors  
Grand Rapids Metal Fabrication Plant  
TCE Treatment System  
Influent, Intermediate, and Effluent**

**SITE:** NPDES Discharge  
**REVISION:** 7/8/2009

Sample Date:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Sample Id:									
Trichloroethene, ug/L	*	38	33	28	29	25	26	24	24
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	<1	<1	<1
Sample Date:	7/13/1994	8/12/1994	9/14/1994	10/18/1994	11/11/1994	12/16/1994	1/13/1995	1/20/1995	2/14/1995
Sample Id:	E91964	E94706	E97434	E100374	E103082	E106412	E108556	E109178	E110635
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	<1	<1	<1	CR3.4	5.4	10	14	<1	3.2
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	<1	<1	<1
Sample Date:	7/13/1994	8/12/1994	9/14/1994	10/18/1994	11/11/1994	12/16/1994	1/13/1995	1/20/1995	2/14/1995
Sample Id:	E91963	E94708	E97436	E100376	E103084	E106414	E108558	E109180	E110637
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	<1	<1	<1

\* = Sample port not yet installed.  
CR = Positive results confirmed by replicate measurement.  
-- = Not analyzed.

**General Motors  
Grand Rapids Metal Fabrication Plant  
TCE Treatment System  
Influent, Intermediate, and Effluent**

**SITE:** NPDES Discharge  
**REVISION:** 7/8/2009

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112938	E114837	E117758	E120801	E122761	E124916	E127396	E129772	E132427
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, ug/L	23	20	20	21	17	15	16	16	13
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112939	E114839	E117760	E120802	E122762	E124917	E127397	E129773	E132428
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	6.5	8	8.9	2.7	4	7.1	9.1	8.7	4
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112940	E114838	E117759	E120803	E122763	E124918	E127398	E129774	E132429
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	1.8	<1	<1	<1	<1	2	<1
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

-- = Not analyzed.

General Motors  
 Grand Rapids Metal Fabrication Plant  
 TCE Treatment System  
 Influent, Intermediate, and Effluent

SITE: NPDES Discharge  
 REVISION: 7/8/2009

Sample Date:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
12/19/1995 E134898	13	11	11	12	9.9	9.5	8.8	9.6	8.3
Sample Id:		E136052	E137785	E139823	E141883	E143103	E144472	E146831	E149321

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
12/19/1995 E134899	6	6.8	8.4	9.3	<1**	<1	2.5	2.9	<1
Sample Id:		E136053	E137786	E139824	E141884	E143104	E144473	E146832	E149322

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
12/19/1995 E134900	<1	<1	<1	1.2	10**	<1	<1	<1	2.9
Sample Id:		E136054	E137787	E139825	E141885	E143105	E144474	E146833	E149323

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

-- = Not analyzed.  
 \*\* = Suspected that samples were labeled incorrectly in the field. Resampled 4/26/96.  
 \*\* = Suspected that samples were labeled incorrectly in the field. Resampled 4/26/96.  
 \* = Sample port not yet installed.  
 CR = Positive results confirmed by replicate measurement.

General Motors  
 Grand Rapids Metal Fabrication Plant  
 TCE Treatment System  
 Influent, Intermediate, and Effluent

SITE: NPDES Discharge  
 REVISION: 7/8/2009

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent															
8/1/1996	E150442	15	8/16/1996	E151801	14	9/13/1996	E154113	11	10/17/1996	E156834	11	11/19/1996	E159734	11	12/12/1996	E161507	9.9	1/20/1997	E163656	8.9	2/14/1997	E164989	9.1	3/13/1997	E166229	8.1

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
8/1/1996	E150441	7.7	8/16/1996	E151800	9.1	9/13/1996	E154112	6.9	10/17/1996	E156833	9.6	11/19/1996	E159733	4.2	12/12/1996	E161508	5	1/20/1997	E163655	4.5	2/14/1997	E164988	6.2	3/13/1997	E166228	6.1

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	
8/1/1996	E150440	<1	8/16/1996	E151799	<1	9/13/1996	E154111	<1	10/17/1996	E156832	2.9	11/19/1996	E159732	<1	12/12/1996	E161509	<1	1/20/1997	E163654	<1	2/14/1997	E164987	<1	3/13/1997	E166227	1.4

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

-- = Not analyzed.  
 \* = Sample port not yet installed.  
 CR = Positive results confirmed by replicate measurement.

General Motors  
 Grand Rapids Metal Fabrication Plant  
 TCE Treatment System  
 Influent, Intermediate, and Effluent

SITE: NPDES Discharge  
 REVISION: 7/8/2009

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
4/18/1997	E168316	9.7	--	9	8.8	10	10	10	9	9	9.3
5/15/1997	E170418	9	--	9	8.8	10	10	10	9	9	9.3
6/19/1997	E172369	8.8	--	10	7.9	7.9	7.9	7.9	10	10	9.3
7/17/1997	E174142	10	--	10	7.9	7.9	7.9	7.9	10	10	9.3
8/14/1997	E175814	10	--	10	7.9	7.9	7.9	7.9	10	10	9.3
9/11/1997	E177693	9	--	9	8.8	8.8	8.8	8.8	9	9	9.3
10/17/1997	E180333	9	--	9	8.8	8.8	8.8	8.8	9	9	9.3
11/14/1997	E182375	9.3	--	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
12/16/1997	E184894	8	--	8	8	8	8	8	8	8	8

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
4/18/1997	E168315	2.9	--	4.8	6	6	6	6	4.8	4.8	4.9
5/15/1997	E170417	4.8	--	4.8	6	6	6	6	4.8	4.8	4.9
6/19/1997	E172368	6	--	6	6	6	6	6	4.8	4.8	4.9
7/17/1997	E174141	7.9	--	7.9	7.9	7.9	7.9	7.9	4.8	4.8	4.9
8/14/1997	E175815	9.4	--	9.4	9.4	9.4	9.4	9.4	4.8	4.8	4.9
9/11/1997	E177692	10	--	10	10	10	10	10	4.8	4.8	4.9
10/17/1997	E180332	3.7	--	3.7	3.7	3.7	3.7	3.7	4.8	4.8	4.9
11/14/1997	E182374	4.9	--	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.9
12/16/1997	E184893	5.4	--	5.4	5.4	5.4	5.4	5.4	4.8	4.8	4.9

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
4/18/1997	E168314	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
5/15/1997	E170416	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
6/19/1997	E172367	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
7/17/1997	E174140	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
8/14/1997	E175816	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
9/11/1997	E177691	2.3	--	2.3	2.3	2.3	2.3	2.3	<1	<1	<1
10/17/1997	E180331	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
11/14/1997	E182373	<1	--	<1	<1	<1	<1	<1	<1	<1	<1
12/16/1997	E184892	<1	--	<1	<1	<1	<1	<1	<1	<1	<1

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

-- = Not analyzed.

General Motors

Grand Rapids Metal Fabrication Plant

TCE Treatment System

Influent, Intermediate, and Effluent

SITE: NPDES Discharge

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Sample Date:	1/14/1998	2/16/1998	3/12/1998	4/22/1998	5/20/1998	6/16/1998	7/16/1998	8/19/1998	9/17/1998
Sample Id:	E186123	E188480	E190690	81962-0007	82447-1683	82953-3394	83403-4904	83939-7019	84367-8357
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, ug/L	6	5.6	5.9	5	6	6	5	5	5
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	1/14/1998	2/16/1998	3/12/1998	4/22/1998	5/20/1998	6/16/1998	7/16/1998	8/19/1998	9/17/1998
Sample Id:	E186122	E188479	E190689	81962-0008	82447-1682	82953-3393	83403-4903	83939-7018	84367-8356
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	4.6	5.2	5.3	5	3	3	3	3	4
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	1/14/1998	2/16/1998	3/12/1998	4/22/1998	5/20/1998	6/16/1998	7/16/1998	8/19/1998	9/17/1998
Sample Id:	E186121	E188478	E190688	81962-0009	82447-1681	82953-3392	83403-4901	83939-7017	84367-8355
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	<1	1	<1	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

-- = Not analyzed.

**General Motors  
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TCE Treatment System  
Influent, Intermediate, and Effluent**

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Sample Date:	10/14/1998	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999
Sample Id:	84778-9599	85278-1080	85755-2517	90148-3375	90635-4887	91113-6519	91468-7715	92011-9430
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	10/14/1998	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999
Sample Id:	84778-9598	85278-1079	85755-2518	90148-3374	90635-4886	91113-6520	91468-7714	92011-9429
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	10/14/1998	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/19/1999	4/12/1999	5/18/1999
Sample Id:	84778-9597	85278-1078	85755-2519	90148-3373	90635-4485	91113-6521	91468-7713	92011-9428
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors  
Grand Rapids Metal Fabrication Plant  
TCE Treatment System  
Influent, Intermediate, and Effluent**

**SITE:** NPDES Discharge  
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Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294005	3990884004	3991393004	3991972003	3992560001	3993099004	3993622007	3000138004	3000620004
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	6	5.57	5.3	5.7	5.6	4.6	4.5	4.4	4.4
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294004	3990884003	3991393003	3991972002	3992560002	3993099003	3993622006	3000138003	3000620003
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	<1	<1	<1	1.4	2.3	2.4	2.7	2.9	3.3
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294003	3990884002	3991393002	3991972001	3992560003	3993099002	3993622005	3000138002	3000620002
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	<1	<1	<1	<1	<1	1.2
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

-- = Not analyzed.

**General Motors  
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Sample Date:	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000	9/22/2000	10/23/2000
Sample Id:	3001152008	3001725004	3002122004	3002633005	3003504002	E258488	E261224	E263869
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	4.2	3.2	3.2	3.3	3.8	3.8	4.7	2.9
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--

Sample Date:	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000	9/22/2000	10/23/2000
Sample Id:	3001152007	3001725003	3002122003	3002633004	3003504003	E258487	E261223	E263868
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	1.8	2	2	2.4	2.9	2.9	4.4	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--

Sample Date:	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000	9/22/2000	10/23/2000
Sample Id:	3001152006	3001725002	3002122002	3002633003	3003504004	E258486	E261222	E263867
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	<1	<1	<1	1.3	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--

-- = Not analyzed.

**General Motors  
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TCE Treatment System  
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**SITE:** NPDES Discharge  
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Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
11/14/2000	E265860	3	6.1	4.6	4.2	4.5	3.7	3.5	4.1
12/20/2000	E268209	--	--	--	--	--	--	--	--
1/18/2001	E269746	4.6	4.2	4.5	3.7	3.5	4.1	4.1	4.1
2/21/2001	E272138	4.2	4.5	3.7	3.5	4.1	4.1	4.1	4.1
3/21/2001	E274377	4.5	3.7	3.5	4.1	4.1	4.1	4.1	4.1
4/17/2001	E276265	3.7	3.5	4.1	4.1	4.1	4.1	4.1	4.1
5/24/2001	E279439	3.5	4.1	4.1	4.1	4.1	4.1	4.1	4.1
6/13/2001	E281032	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
11/14/2000	E265859	<1	<1	<1	<1	<1	<1	<1	<1
12/20/2000	E268208	<1	<1	<1	<1	<1	<1	<1	<1
1/18/2001	E269745	<1	<1	<1	<1	<1	<1	<1	<1
2/21/2001	E272137	<1	<1	<1	<1	<1	<1	<1	<1
3/21/2001	E274376	<1	<1	<1	<1	<1	<1	<1	<1
4/17/2001	E276264	<1	<1	<1	<1	<1	<1	<1	<1
5/24/2001	E279438	<1	<1	<1	<1	<1	<1	<1	<1
6/13/2001	E281031	<1	<1	<1	<1	<1	<1	<1	<1

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
11/14/2000	E265858	<1	<1	<1	<1	<1	<1	<1	<1
12/20/2000	E268207	<1	<1	<1	<1	<1	<1	<1	<1
1/18/2001	E269744	<1	<1	<1	<1	<1	<1	<1	<1
2/21/2001	E272136	<1	<1	<1	<1	<1	<1	<1	<1
3/21/2001	E274375	<1	<1	<1	<1	<1	<1	<1	<1
4/17/2001	E276263	<1	<1	<1	<1	<1	<1	<1	<1
5/24/2001	E279437	<1	<1	<1	<1	<1	<1	<1	<1
6/13/2001	E281030	<1	<1	<1	<1	<1	<1	<1	<1

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

-- Not analyzed.

MS=Matrix spike duplicate RPD for this sample, fell outside laboratory control limits.  
The corresponding result must be considered estimated.

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 TCE Treatment System  
 Influent, Intermediate, and Effluent

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Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent
7/16/2001	E283305	5.2	3	4.8	4.9	4.3	4.9
8/22/2001	E285981	--	--	--	--	--	--
9/13/2001	E287740						
10/9/2001	E289883						
11/13/2001	E292886						
12/19/2001	E295702						
1/9/2002	INF-3						

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
7/16/2001	E283304	3.1	3	1	1.6	<1	<1
8/22/2001	E285980	--	--	--	--	--	--
9/13/2001	E287739						
10/9/2001	E289882						
11/13/2001	E292885						
12/19/2001	E295701						
1/9/2002	MID-2						

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
7/16/2001	E283303	<1	<1	<1	MS <1	<1	<1
8/22/2001	E285979	--	--	--	--	--	--
9/13/2001	E287738						
10/9/2001	E289881						
11/13/2001	E292884						
12/19/2001	E295700						
1/9/2002	EFF-1						

Trichloroethene, ug/L  
 1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors  
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Influent, Intermediate, and Effluent**

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Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	IN-17360-JB-2602-03	IN-17360-JB-030602-003	IN-17360-JB-041002-003	IN-17360-050102-JB-03	IN-17360-060502-JB-03
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

3.0  
--  
4.3  
--  
1.9<sup>(1)</sup>  
--  
5.3  
--  
6.3  
--

Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	IT-17360-JB-2602-02	IT-17360-JB-030602-002	IT-17360-JB-041002-002	IT-17360-050102-JB-02	MD-17360-060502-JB-02
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

<1  
--  
1.0  
--  
<1  
--  
<1  
--

Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	EF-17360-JB-2602-01	EF-17360-JB-030602-001	EF-17360-JB-041002-001	EF-17360-050102-JB-01	EF-17360-060502-JB-01
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

<1  
--  
<1  
--  
<1  
--

-- = Not analyzed.

<sup>(1)</sup>Based on a detection of 4.9 ug/L in the trip blank, the results for effluent detection of 1.9 ug/L would qualify as non-detect at 4.9 ug/L

**General Motors  
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Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	IN-17360-071702-JB-003	IN-17360-072602-JB-003	IN-17360-081402-JB-003	IN-17360-090402-JB-003	IF-17360-100902-JB-068
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	5.7	6.5	5.0	5.6	4.7
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	IT-17360-071702-JB-002	IT-17360-072602-JB-002	MD-17360-081402-JB-002	MD-17360-090402-JB-002	MD-17360-100902-JB-067
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	1.7	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	EF-17360-071702-JB-001	EF-17360-072602-JB-001	EF-17360-081402-JB-001	EF-17360-090402-JB-001	EF-17360-100902-JB-066
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

-- = Not analyzed.

**General Motors  
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Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	IN-17360-110702-JB-072	IN-17360-121302-JB-003	IN-17360-011503-JB-083	IN-17360-021703-JB-003	IN-17360-030503-JB-003
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	4.6	4.7	4.9	3.9	4.2
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	MD-17360-110702-JB-071	MD-17360-121302-JB-002	MD-17360-011503-JB-082	MD-17360-021703-JB-002	MD-17360-030503-JB-002
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	<1	<2	2	4	1.3
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	EF-17360-110702-JB-070	EF-17360-121302-JB-001	EF-17360-011503-JB-081	EF-17360-021703-JB-001	EF-17360-030503-JB-001
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<2	<1	<2	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

-- = Not analyzed.

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TCE Treatment System  
Influent, Intermediate, and Effluent**

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Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent
4/17/2003	IN-17360-041703-JB-064	4/17/2003	5/14/2003	9/10/2003	12/17/2003	3/3/2004	
		IN-17360-051403-JB-003	IN-17360-091003-JB-003	IN-17360-121703-JB-003	IN-17360-030304-JB-003		

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

2.6	3.6	3.3	2.3	2.4	--	--
-----	-----	-----	-----	-----	----	----

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
4/17/2003	MD-17360-041703-JB-063	4/17/2003	5/14/2003	9/10/2003	12/17/2003	3/3/2004
		MD-17360-051403-JB-002	MD-17360-091003-JB-002	MD-17360-121703-JB-002	MD-17360-121703-JB-002	

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

<1	<1	<1	<1	<1	--	--
----	----	----	----	----	----	----

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent
4/17/2003	EF-17360-041703-JB-062	4/17/2003	5/14/2003	9/10/2003	12/17/2003	3/3/2004
		EF-17360-051403-JB-001	EF-17360-091003-JB-001	EF-17360-121703-JB-001	EF-17360-121703-JB-001	

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

<1	<1	<1	<1	<1	--	--
----	----	----	----	----	----	----

-- = Not analyzed.

**General Motors  
Grand Rapids Metal Fabrication Plant  
TCE Treatment System  
Influent, Intermediate, and Effluent**

**SITE:** NPDES Discharge  
**REVISION:** 7/8/2009

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent
9/8/2004	IN-17360-090804-JB-003	1.8	2.2	2.2	2.5
12/8/2004	IN-17360-120804-JB-003	--	--	--	--
1/5/2005	INF-17360-010505-JB-003				
2/15/2005	INF-17360-021505-JB-003				

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate
9/8/2004	MD-17360-090804-JB-002	1.0	<1	<1	<1
12/8/2004	MD-17360-120804-JB-002	--	--	--	--
1/5/2005	MD-17360-010505-JB-002				
2/15/2005	MD-17360-021505-JB-002				

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent
9/8/2004	EF-17360-090804-JB-001	<1	<1	<1	<1
12/8/2004	EF-17360-0120804-JB-001	--	--	--	--
1/5/2005	EF-17360-010505-JB-001				
2/15/2005	EF-17360-021505-JB-001				

Trichloroethene, ug/L  
1,1-Dichloroethane, ug/L

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3  
 REVISION: 7/8/2009

Sample Date:	2/21/1989	3/30/1989	5/5/1989	6/9/1989	7/10/1989	8/11/1989	9/14/1989	10/12/1989	11/8/1989	12/15/1989	1/5/1990	2/9/1990	3/7/1990
Sample Id:	A01371	A02417	A03698	A04804	A05852	A07215	A08211	A09893	A01432	A02717	A03243	A04267	A04990
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, mg/m3	138	114	61.3	51.9	71.9	18.1	26	11	16	16.7	18	18	22
Barometric Pressure, mm/Hg	760	--	760	754	768	743	743	743	--	--	766	756	759
Temperature, Deg C.	43	--	43	43	43	24	24	24	--	--	--	38	38

Sample Id:	A01372	A02418	A03700	A04806	A05854	A07217	A08213	A09895	A01434	A02719	A03245	A04269	A04992
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, mg/m3	<2.4	<5.87	<8.6	<8.6	<8.8	<5.3	<5	<5.3	<5	<1	10	<1.2	<1
Barometric Pressure, mm/Hg	760	--	760	754	768	743	743	743	--	--	766	756	759
Temperature, Deg C.	24	--	43	43	43	24	24	24	--	--	--	38	38

-- = Not Analyzed

**General Motors  
Grand Rapids Metal Fabrication Plant  
Soil Vapor Recovery System Summary/Analytical Data**

SITE: 87-3  
REVISION: 7/8/2009

Sample Date:	4/4/1990	5/3/1990	6/4/1990	7/5/1990	8/8/ 990	9/11/1990	10/2/1990	11/9/1990	12/3/1990	1/14/1991	3/5/1991	6/6/1991	9/3/1991
Sample Id:	A06111	A07192	A08769	A09819	A01186	A02890	H3925	H5796	H7001	A0522	A2685	A6486	A0911
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

	6	7	9	11	2	1	1	1	2	3	1	6	6
	--	--	763	761	766	--	765	760	750	758	754	--	763.19
	--	--	28	35	30	25	40	35	30	35	40	--	33

Trichloroethene, mg/m3  
Barometric Pressure, mm/Hg  
Temperature, Deg C.

Sample Id:	A06113	A07194	A08771	A09821	A01188	A02892	H3927	H5798	H7003	A0524	A2687	A6488	A0913
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

	<1	<1	<1	2	<1	<7	<7	<1	<1	<1	<1	<1	<1
	--	--	763	761	766	765	765	760	750	758	754	--	763.19
	--	--	28	35	30	40	40	35	30	35	40	--	33

Trichloroethene, mg/m3  
Barometric Pressure, mm/Hg  
Temperature, Deg C.

-- = Not Analyzed  
\* = Sample broken, resampling not done due to system being down.

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3  
 REVISION: 7/8/2009

Sample Date:	12/3/1991	1/27/1992	3/10/1992	6/30/1992	12/11/1992	2/12/1993	3/11/1993	6/14/1993	9/15/1993	12/17/1993	3/16/1994	6/14/1994	9/14/1994
Sample Id:	--	A01551	A04442	A00266	E40346	E45474	E47634	E56573	E66018	E75737	E81231	E89637	E97431
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, mg/m3	*	7	3	<1	44.7	7.9	7.74	4.8	4.8	3.2	5.3	6.3	5.5
Barometric Pressure, mm/Hg	*	744.22	730.50	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	*	--	--	--	--	--	--	--	--	--	--	--	--

Sample Id:	--	A05367	A04444	A00268	E40344	E47636	E47636	E56571	E66017	E75739	E81233	E89984	E97433
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, mg/m3	*	<1	4	6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Barometric Pressure, mm/Hg	*	744.22	730.50	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	*	--	--	--	--	--	--	--	--	--	--	--	--

-- = Not Analyzed  
 \* Airzorb carbon units replaced with GM-assembled carbon units.

General Motors  
Grand Rapids Metal Fabrication Plant  
Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3  
REVISION: 7/8/2009

Sample Date:	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/19/1995	3/19/1996	6/13/1996	9/13/1996	12/13/1996	3/13/1997	6/19/1997	9/19/1997	12/17/1997
Sample Id:	E106389	E112941	E120782	E127399	E134901	E139799	E146827	E154105	E161514	E166232	E178326	E178326	E184888
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, mg/m3	5.9	3	3.9	<0.4	3.8	3.8	2.8	4.0	3.2	2.8	2.7	3.9	2.3
Barometric Pressure, mm/Hg	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample Id:	E106391	E112943	E120784	E127401	E134903	E139801	E146829	E154107	E161516	E166234	E172372	E178328	E184890
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, mg/m3	3.0	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	0.79	3.0#	<0.4	<0.4
Barometric Pressure, mm/Hg	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--	--	--	--	--	--	--	--

-- = Not Analyzed  
# = Sample label was likely switched in the field with the intermediate sample label.

General Motors  
Grand Rapids Metal Fabrication Plant  
Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3  
REVISION: 7/8/2009

Sample Date:	3/12/1998	6/17/1998	9/17/1998	12/16/1998	3/11/1999	6/15/1999	9/20/1999	12/16/1999	3/16/2000	6/13/2000	9/22/2000
Sample Id:	E190709	82954-3411	84367-8361	85755-2509	90995-6100	92195-0021	3991972004	3993622023	3001157001	3002633024	E261212
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3  
Barometric Pressure, mm/Hg  
Temperature, Deg C.

Sample Id:	E190711	82954-3413	84367-8363	85755-2511	90995-6102	92195-0023	3991972006	3993622024	3001157002	E261214
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, mg/m3  
Barometric Pressure, mm/Hg  
Temperature, Deg C.

-- = Not analyzed.  
(1) Full sample number includes AR-17360

General Motors  
 Grand Rapids Metal Fabrication Plant  
 Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3  
 REVISION: 7/8/2009

Sample Date:	12/20/2000	3/21/2001	6/13/2001	9/13/2001	12/19/2001	4/2/2003
Sample Id:	E268246	E274369	E281008	E287735	E295696	(1)-040203-JB-003
	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3	1.3	0.6	1.3	1.5	1.2	2.7
Barometric Pressure, mm/Hg	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--

Sample Id:	E268248	E274370	E281010	E287737	E295698	(1)-040203-JB-001
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, mg/m3	0.51	<0.4	<0.4	<0.4	<0.4	0.7
Barometric Pressure, mm/Hg	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--

**General Motors  
Grand Rapids Metal Fabrication Plant  
Soil Vapor Recovery System Summary/Flow Data**

**SITE:** 87-3  
**REVISION:** 7/8/2009

<b>Date</b>	<b>Flow Meter Reading (%)</b>	<b>Air Flow Rate (ACFM)</b>
02/21/89	100	NA
03/02/89	103	180
03/15/89	102	102359
03/20/89	102	289099
03/30/89	101	741130
04/06/89	102	979200
04/14/89	102	577020
04/21/89	102	NA
05/05/89	100	152
05/22/89	101	NA
06/09/89	101	NA
06/23/89	101	NA
07/10/89	101	NA
07/28/89	102	NA
08/11/89	105	NA
08/22/89	101	NA
09/14/89	100	NA
10/13/89	NA	NA
11/08/89	102	NA
12/15/89	103	NA
01/05/90	104	NA
02/09/90	103	NA
03/07/90	103	NA
04/04/90	103	NA
05/03/90	105	NA
06/04/90	104	NA
07/05/90	104	NA
07/20/90	104	NA
08/08/90	104	NA
09/11/90	105	NA
10/02/90	104	NA
11/09/90	105	NA
12/03/90	130	NA
01/14/91	105	NA
03/05/91	NA	NA
03/26/91	105	NA
06/06/91	105	NA
09/03/91	105	NA
09/26/91	105	NA
09/26/91	105	NA
12/02/91	103	NA
01/06/92	NA	NA
01/27/92	105	NA
03/10/92	105	NA
06/30/92	100	NA
12/11/92	73	85.9
02/12/93	74	87.2

NA = Not Available

Note: Airzorb carbon units replaced with GM-assembled carbon units in December of 1991.

**General Motors**  
**Grand Rapids Metal Fabrication Plant**  
**Soil Vapor Recovery System Summary/Flow Data**

SITE: 87-3  
 REVISION: 7/8/2009

Date	Flow Meter Reading (%)	Air Flow Rate (ACFM)
03/11/93	74	87.2
06/12/93	75	88.5
09/15/93	76	89.8
12/17/93	75	88.5
03/16/94	75	88.5
06/14/94	75	88.5
09/14/94	75	88.5
12/16/94	75	88.5
03/17/95	75	88.5
06/20/95	60	70.0
09/14/95	74	87.2
12/19/95	74	87.2
03/19/96	75	88.5
06/13/96	75	88.5
09/13/96	74	87.2
12/13/96	74	87.2
03/13/97	72	84.6
06/19/97	75	88.5
09/19/97	72	84.6
12/17/97	70	82.0
03/12/98	70	82.0
06/17/98	70	82.0
09/17/98	86	102.8
12/16/98	70	80.0
03/11/99	70	82.0
06/15/99	68	79.4
09/20/99	69	80.7
12/16/99	68	79.4
03/16/00	74	87.2
06/13/00	70	82.0
09/22/00	75	88.5
12/20/00	72	84.6
03/21/01	63	72.9
06/13/01	72	84.6
09/13/01	72	84.6
12/19/01	70	82.0

Note: Airzorb carbon units replaced with GM-assembled carbon units in December of 1991.  
 SVE system shutdown in May 2003