



ARCADIS of New York, Inc.  
6723 Towpath Road  
Syracuse  
New York 13214-0066  
Tel 315.446.9120  
Fax 315.446.8053  
www.arcadis-us.com

Mr. Allan Brouillet  
Environmental Response Division  
Michigan Department of Environmental Quality  
Saginaw Bay District  
503 North Euclid Street  
Bay City, MI 48706

INDUSTRIAL

Subject:

Monthly Report #154 – September 2007  
GM SMI Plant Property, REALM Inc. Green Point Landfill and  
Drum Remediation Area RI/FS/RAP, and Green Point Landfill Closure

Date:  
October 5, 2007

Dear Mr. Brouillet:

Contact:  
Lisa R. Coffey, P.G.

On behalf of the General Motors Corporation (GM) and Waste Management, Inc. (WMI), the September 2007 monthly report for the GM SMI Plant Property and the Remediation and Liability Management Company Inc. (REALM) Green Point Landfill Property is attached. Please contact me if you have any questions regarding the enclosed information.

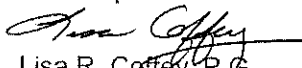
Phone:  
315.671.9164

Email:  
lisa.coffey@  
arcadis-us.com

Sincerely,

ARCADIS of New York, Inc.

Our ref:  
B0027608 #2.08

  
Lisa R. Coffey, P.G.  
Sr. Geologist II

Attachments

Copies:

Ms. Susan Kaelber-Matlock, MDEQ, ERD  
John Fordell Leone, Esq., Department of Attorney General  
Ms. Cheryl Hiatt/Mr. Edward Peterson, GM WFG  
Anthony Thrubis, Esq., GM Legal  
Mr. Kent Bainbridge, Waste Management, Inc.  
Mr. Jim Forney, Waste Management, Inc.  
Ms. Jo Ann Robertson, ARCADIS BBL

Imagine the result

**Monthly Report #154**  
**General Motors Corporation Saginaw Malleable Iron Plant Property and**  
**REALM Inc. Green Point Landfill and Drum Remediation Area**  
**September 2007**

**Significant RI/FS/RAP and Interim Measure Activities and Events**

- The light non-aqueous phase liquid (LNAPL) recovery system located south of the main plant building recovered over 12,000 gallons of groundwater and 35 gallons LNAPL during the monitored period of August 24, 2007, through September 19, 2007 (Table 1). Table 2 presents current and historical LNAPL and groundwater elevation measurement data for monitoring wells located in the vicinity of the recovery system.
- The automated skimmer pump installed at monitoring well QPTW-3 in the Quench Pit Area recovered approximately 10 gallons of LNAPL between August 29, 2007, and September 19, 2007. A total of approximately 2,420 gallons of LNAPL have been recovered by the system. Approximately 6,500 gallons of LNAPL were also removed by hand bailing from 1997 through 2002, prior to installation of the skimmer pump.

**Significant Green Point Landfill Closure Activities and Events**

- None during September.

**Key Correspondence and Communications**

- The August 2007 monthly report, dated September 12, 2007, was submitted to the Michigan Department of Environmental Quality (MDEQ).

**Anticipated Activities for October and November 2007**

- Continuation of LNAPL recovery activities.
- Collection of groundwater samples in the former underground storage tank (UST) 7 area as part of the ongoing monitored natural attenuation program.
- Groundwater sampling activities along the river berm and in the vicinity of the Green Point Landfill will be scheduled following MDEQ approval of the *Work Plan for Additional Site Investigation for Remedial Action Plan*, Revision 1, dated July 24, 2007.

**TABLE 1  
LNAPL RECOVERY SUMMARY**

**GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN**

System Status		
Date	Approximate Volume of LNAPL in Totes (gallons)	Totalizer Reading (gallons)
September 19, 2007	550	3,024,186
LNAPL Recovery - September 2007		
LNAPL Recovery Operation	Approximate Volume of LNAPL Recovered (gallons)	Approximate Volume of Groundwater Treated (gallons)
LNAPL System Recovery - August 24, 2007 through September 19, 2007	35	12,313
LNAPL Recovery Summary		
LNAPL Recovery Operation	Approximate Volume of LNAPL Recovered (gallons) <sup>1</sup>	Approximate Volume of Groundwater Treated (gallons)
LNAPL System - Total through September 19, 2007	3,729	3,024,186
Total Hand Bailed - July 2002 through February 2003	21	0
Water/LNAPL Pumped From Reverse Siphon of 42-Inch Sewer Line - Total through August 23, 2006 <sup>2</sup>	60 +	450
Total Hand Bailed - 1996 and 1997	710	0
LNAPL/water recovered during repair of 42-Inch Storm Sewer Line (recovery from abandoned 30-inch line)	5,000 +	unknown
LNAPL/water recovered during Slip Lining of 42-Inch Storm Sewer Line	3,000 +	unknown
Totals:	12,520 +	3,024,636

<sup>1</sup> Total includes some water drawn into the LNAPL recovery lines when the water table fluctuates rapidly, and water that was included in an LNAPL/water mixture recovered during repair of the 42-inch storm sewer line.

<sup>2</sup> Note that in a number of instances, LNAPL removed from the inverted siphon by plant personnel has been included in the LNAPL system recovery total.

<sup>3</sup> On February 19, 2007, approximately 20 gallons of water were drained from tote 2, and the LNAPL recovery values were adjusted accordingly.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Date	MW-132WT reference elevation = 594.24				MW-147WT reference elevation = 692.07				MW-157WT reference elevation = 591.72				MW-168WT reference elevation = 591.78			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
September 25, 2002	--	--	--	--	7.67	2.13	9.80	584.23	--	--	--	--	NA	NA	NA	NA
October 29, 2002	--	--	--	--	7.77	2.78	10.55	584.08	--	--	--	--	NP	0.00	8.60	583.18
November 26, 2002	--	--	--	--	7.75	1.75	9.50	584.18	--	--	--	--	NA	NA	NA	NA
December 19, 2002	--	--	--	--	7.78	1.27	9.05	584.19	--	--	--	--	NA	NA	NA	NA
January 10, 2003	--	--	--	--	9.25	0.00	9.25	582.82	--	--	--	--	NA	NA	NA	NA
February 25, 2003	--	--	--	--	8.18	1.30	9.48	583.79	--	--	--	--	NA	NA	NA	NA
March 27, 2003	--	--	--	--	8.06	1.06	9.12	583.93	--	--	--	--	NA	NA	NA	NA
April 29, 2003	--	--	--	--	7.38	0.98	8.36	584.61	--	--	--	--	NA	NA	NA	NA
May 29, 2003	--	--	--	--	6.69	2.15	8.84	585.21	--	--	--	--	NA	NA	NA	NA
June 25, 2003	--	--	--	--	6.79	2.75	9.54	585.06	--	--	--	--	NA	NA	NA	NA
July 30, 2003	--	--	--	--	6.83	2.78	9.41	585.22	--	--	--	--	NA	NA	NA	NA
August 4, 2003	--	--	--	--	6.58	2.78	9.36	585.27	--	--	--	--	NA	NA	NA	NA
September 18, 2003	--	--	--	--	6.80	2.85	9.65	585.04	--	--	--	--	NA	NA	NA	NA
November 10, 2003	--	--	--	--	6.46	2.08	8.54	585.44	--	--	--	--	NA	NA	NA	NA
December 29, 2003	--	--	--	--	6.55	2.16	8.71	585.35	--	--	--	--	NA	NA	NA	NA
February 26, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	8.68	0.01	8.69	NA
March 8, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	8.41	0.01	8.42	NA
April 29, 2004	--	--	--	--	6.36	1.64	8.00	585.58	--	--	--	--	NA	NA	NA	NA
June 1, 2004	--	--	--	--	5.20	1.26	6.45	586.77	--	--	--	--	NA	NA	NA	NA
June 30, 2004	--	--	--	--	6.05	1.26	7.31	585.92	--	--	--	--	NA	NA	NA	NA
July 28, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	7.90	0.01	7.91	583.88
August 17, 2004	--	--	--	--	6.76	1.34	8.10	585.20	--	--	--	--	8.21	0.01	8.22	583.57
September 27, 2004	--	--	--	--	6.91	1.61	8.52	585.03	--	--	--	--	NP	0.00	8.39	583.39
October 29, 2004	--	--	--	--	7.04	1.78	8.82	584.89	--	--	--	--	8.41	0.01	8.42	583.37
November 30, 2004	--	--	--	--	6.35	1.72	8.07	585.58	--	--	--	--	8.56	0.01	8.57	583.22
December 27, 2004	--	--	--	--	NA	NA	NA	NA	--	--	--	--	8.35	0.01	8.36	583.43
January 26, 2005	--	--	--	--	6.28	2.03	8.31	585.63	--	--	--	--	NA	NA	NA	NA
February 7, 2005	--	--	--	--	6.57	1.96	8.53	585.34	--	--	--	--	NP	0.00	7.98	583.80
March 17, 2005	NP	0.00	10.97	583.27	6.55	2.04	8.59	585.36	7.27	0.66	7.93	584.40	NP	0.00	8.24	583.54
April 13, 2005	NP	0.00	10.94	583.30	6.44	1.74	8.18	585.49	7.18	0.18	7.36	584.53	NP	0.00	8.23	583.55
May 31, 2005	NP	0.00	10.91	583.33	6.53	1.76	8.29	585.40	7.23	0.25	7.48	584.47	NP	0.00	8.14	583.64
June 28, 2005	--	--	--	--	5.83	1.73	7.56	586.10	6.23	0.21	6.44	585.47	NP	0.00	7.72	584.06
July 29, 2005	NP	0.00	10.59	583.65	5.59	1.58	7.17	586.35	6.21	0.70	6.91	585.45	NP	0.00	7.69	584.09
August 18, 2005	NP	0.00	10.82	583.42	6.19	1.75	7.94	585.74	6.98	0.23	7.19	584.74	NP	0.00	7.98	583.80
September 28, 2005	NP	0.00	11.03	583.21	6.49	1.59	8.08	585.45	7.37	0.04	7.41	584.35	8.33	0.01	8.34	583.45
October 18, 2005	--	--	--	--	6.85	1.93	8.78	585.07	7.68	0.38	8.06	584.01	NP	0.00	8.56	583.22
November 30, 2005	NP	0.00	11.03	583.21	6.33	1.76	8.09	585.60	7.09	0.03	7.12	584.63	NP	0.00	8.31	583.47
December 26, 2005	NP	0.00	10.96	583.28	6.15	1.96	8.11	585.76	6.89	0.19	7.08	584.81	NP	0.00	8.14	583.64
January 31, 2006	NP	0.00	10.55	583.69	5.21	1.91	7.12	586.71	5.74	0.51	6.25	585.94	NP	0.00	7.53	584.25
February 24, 2006	NP	0.00	10.80	583.44	6.38	1.86	8.24	585.54	6.87	0.27	7.14	584.83	NP	0.00	7.98	583.80
March 22, 2006	NP	0.00	10.37	583.87	5.70	1.63	7.33	586.24	5.68	0.13	5.81	586.03	NP	0.00	7.71	584.07
April 27, 2006	NP	0.00	10.91	583.33	6.23	1.69	7.92	585.70	7.17	0.03	7.20	584.55	8.14	0.01	8.15	583.64
May 25, 2006	NA	NA	NA	NA	NA	NA	NA	NA	6.37	0.14	6.51	585.34	NP	0.00	7.95	583.83
June 27, 2006	NP	0.00	10.94	583.30	6.32	1.70	8.02	585.61	7.20	0.04	7.24	584.52	NP	0.00	8.17	583.61
July 11, 2006	NP	0.00	10.82	583.42	5.99	1.67	7.66	585.95	6.96	0.11	7.07	584.75	NP	0.00	8.03	583.75
August 23, 2006	NP	0.00	10.92	583.32	6.24	1.65	7.89	585.70	7.20	0.01	7.21	584.52	NP	0.00	8.08	583.70
September 26, 2006	NP	0.00	10.75	583.49	5.67	1.64	7.31	586.27	6.69	0.11	6.80	585.02	NP	0.00	7.90	583.88
October 30, 2006	NP	0.00	10.53	583.71	5.36	1.65	7.01	586.58	5.71	0.22	5.93	585.99	7.49	0.02	7.51	584.29
November 27, 2006	NP	0.00	10.80	583.44	6.00	1.66	7.66	585.94	6.89	0.12	7.01	584.82	7.92	0.01	7.93	583.86
December 27, 2006	NP	0.00	10.76	583.48	5.12	1.65	7.77	585.82	7.00	0.02	7.02	584.72	NP	0.00	7.94	583.84
January 25, 2007	NP	0.00	10.98	583.26	NA	NA	NA	NA	7.42	0.04	7.46	584.30	NA	NA	NA	NA
March 5, 2007	NP	0.00	11.06	583.18	7.08	1.60	8.68	584.86	NP	0.00	7.72	584.00	NA	NA	NA	NA
March 23, 2007	NP	0.00	10.97	583.27	6.18	1.64	7.82	585.76	7.23	0.02	7.25	584.49	NP	0.00	8.09	583.69
April 30, 2007	NP	0.00	10.88	583.36	6.13	1.47	7.60	585.82	7.10	0.05	7.15	584.62	6.05	0.01	8.06	583.73
May 17, 2007	NP	0.00	10.90	583.34	6.19	1.57	7.76	585.75	7.16	0.04	7.20	584.56	NA	NA	NA	NA
June 12, 2007	NP	0.00	10.85	583.29	6.30	1.58	7.88	585.64	7.20	0.02	7.22	584.52	NP	0.00	8.11	583.87
July 18, 2007	NP	0.00	11.01	583.23	6.42	1.62	8.04	585.52	7.19	0.02	7.21	584.53	NP	0.00	8.16	583.82
August 28, 2007	NP	0.00	10.88	583.36	5.93	1.51	7.44	586.02	6.71	0.02	6.73	585.01	NP	0.00	7.97	583.81
September 19, 2007	NP	0.00	10.37	583.87	5.59	1.53	7.12	586.36	6.03	0.12	6.15	585.68	NP	0.00	7.51	584.27

See Notes on Page 6.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Date	MW-160WT reference elevation = 591.83				MW-161WT reference elevation = 591.80				MW-168WT reference elevation = 592.11				MW-169WT reference elevation = 591.82			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
September 26, 2002	8.36	0.79	9.15	583.11	--	--	--	--	NA	NA	NA	NA	8.17	0.01	8.18	583.65
October 29, 2002	8.54	0.56	9.10	582.95	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.50	583.32
November 26, 2002	8.60	0.53	9.13	582.89	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
December 19, 2002	8.55	0.63	9.18	582.93	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.61	583.21
January 10, 2003	8.60	0.56	9.16	582.89	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.58	583.24
February 25, 2003	8.72	0.56	8.28	582.77	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.67	583.15
March 27, 2003	8.62	0.53	9.15	582.87	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.62	583.20
April 29, 2003	8.58	0.37	8.95	582.92	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.59	583.23
May 29, 2003	7.77	0.26	8.03	583.74	--	--	--	--	NA	NA	NA	NA	NP	0.00	7.95	583.87
June 25, 2003	8.47	0.22	8.69	583.04	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.31	583.61
July 30, 2003	8.36	0.22	8.58	583.15	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.21	583.61
August 4, 2003	8.32	0.22	8.54	583.19	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.18	583.64
September 18, 2003	8.48	0.34	8.82	583.02	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.51	583.31
November 10, 2003	8.50	0.20	8.70	583.01	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.41	583.41
December 29, 2003	8.68	0.23	8.91	582.83	--	--	--	--	NA	NA	NA	NA	NP	0.00	7.88	583.94
February 26, 2004	8.60	0.11	8.71	582.92	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
March 8, 2004	8.33	0.31	8.64	583.18	--	--	--	--	8.32	0.23	8.55	583.77	NA	NA	NA	NA
April 29, 2004	8.41	0.19	8.60	583.10	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
June 1, 2004	7.83	0.11	7.94	583.69	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
June 30, 2004	8.25	0.09	8.34	583.27	--	--	--	--	NA	NA	NA	NA	7.62	0.01	7.63	584.20
July 28, 2004	8.43	0.11	8.54	583.09	--	--	--	--	NA	NA	NA	NA	7.94	0.01	7.95	583.88
August 17, 2004	8.46	0.11	8.57	583.06	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.17	583.65
September 27, 2004	8.54	0.17	8.71	582.98	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.23	583.59
October 29, 2004	8.58	0.09	8.67	582.94	--	--	--	--	NA	NA	NA	NA	8.35	0.01	8.36	583.47
November 30, 2004	8.47	0.07	8.54	583.05	--	--	--	--	NA	NA	NA	NA	6.44	0.01	6.45	583.38
December 27, 2004	NA	NA	NA	NA	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.23	583.59
January 26, 2005	8.21	0.35	8.56	583.29	--	--	--	--	NA	NA	NA	NA	NP	0.00	8.30	583.52
February 7, 2005	8.10	0.11	8.21	583.42	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2005	8.43	0.13	8.56	583.09	NP	0.00	7.60	584.20	NA	NA	NA	NA	NP	0.00	8.17	583.65
April 13, 2005	8.39	0.13	8.52	583.13	NP	0.00	7.82	583.98	NA	NA	NA	NA	NA	NA	NA	NA
May 31, 2005	8.39	0.15	8.54	583.13	NP	0.00	7.57	584.23	NA	NA	NA	NA	NP	0.00	6.20	583.62
June 28, 2005	8.14	0.09	8.23	583.38	NP	0.00	7.34	584.46	NA	NA	NA	NA	NP	0.00	7.92	583.90
July 29, 2005	8.13	0.04	8.17	583.40	7.39	0.01	7.40	584.41	NA	NA	NA	NA	NP	0.00	7.92	583.90
August 18, 2005	8.30	0.04	8.34	583.23	NP	0.00	7.61	584.29	NA	NA	NA	NA	NA	NA	NA	NA
September 28, 2005	8.46	0.02	8.48	583.07	NP	0.00	7.75	584.05	NA	NA	NA	NA	NA	NA	NA	NA
October 18, 2005	8.66	0.06	8.72	582.87	NP	0.00	8.00	583.80	NA	NA	NA	NA	NA	NA	NA	NA
November 30, 2005	8.52	0.01	8.53	583.01	NP	0.00	7.78	584.02	NA	NA	NA	NA	NA	NA	NA	NA
December 26, 2005	8.44	0.01	8.45	583.09	NP	0.00	7.76	584.04	NA	NA	NA	NA	NA	NA	NA	NA
January 31, 2006	NP	0.00	8.21	583.32	NP	0.00	7.37	584.43	NA	NA	NA	NA	NA	NA	NA	NA
February 24, 2006	NP	0.00	8.38	583.15	NP	0.00	7.49	584.31	NA	NA	NA	NA	NA	NA	NA	NA
March 22, 2006	8.24	0.01	8.25	583.29	NP	0.00	7.23	584.67	NA	NA	NA	NA	NA	NA	NA	NA
April 27, 2006	NP	0.00	6.43	583.10	NP	0.00	7.35	584.45	NA	NA	NA	NA	NA	NA	NA	NA
May 25, 2006	NA	NA	NA	NA	NP	0.00	7.21	584.59	NA	NA	NA	NA	NA	NA	NA	NA
June 27, 2006	NP	0.00	8.44	583.09	NP	0.00	7.39	584.41	NA	NA	NA	NA	NA	NA	NA	NA
July 11, 2006	NP	0.00	8.40	583.13	NP	0.00	7.46	584.34	NA	NA	NA	NA	NA	NA	NA	NA
August 23, 2006	NP	0.00	8.41	583.12	NP	0.00	7.41	584.39	NA	NA	NA	NA	NA	NA	NA	NA
September 26, 2006	NP	0.00	8.32	583.21	NP	0.00	7.38	584.42	NA	NA	NA	NA	NA	NA	NA	NA
October 30, 2006	NP	0.00	8.13	583.40	NP	0.00	7.17	584.63	NA	NA	NA	NA	NA	NA	NA	NA
November 27, 2006	NP	0.00	8.40	583.13	NP	0.00	7.36	584.44	NA	NA	NA	NA	NA	NA	NA	NA
December 27, 2006	NP	0.00	8.34	583.19	NP	0.00	7.32	584.48	NA	NA	NA	NA	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 6, 2007	NP	0.00	8.59	582.94	NP	0.00	7.78	584.02	NA	NA	NA	NA	NA	NA	NA	NA
March 23, 2007	NP	0.00	8.53	583.00	NP	0.00	7.58	584.22	NA	NA	NA	NA	NA	NA	NA	NA
April 30, 2007	NP	0.00	8.46	583.07	NP	0.00	7.40	584.40	NA	NA	NA	NA	NA	NA	NA	NA
May 17, 2007	NP	0.00	8.44	583.09	NP	0.00	7.39	584.41	NA	NA	NA	NA	NA	NA	NA	NA
June 12, 2007	NP	0.00	8.50	583.03	NP	0.00	7.45	584.35	NA	NA	NA	NA	NA	NA	NA	NA
July 18, 2007	NP	0.00	8.54	582.99	NP	0.00	7.59	584.21	NA	NA	NA	NA	NP	0.00	8.31	583.51
August 28, 2007	NP	0.00	8.46	583.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
September 19, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 6.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Date	MW-172WT reference elevation = 591.51				MW-175WT reference elevation not available				MW-178WT reference elevation = 590.35			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
September 25, 2002	8.47	0.53	9.00	583.00	NP	0.00	7.67	NA	7.99	1.40	9.39	582.25
October 29, 2002	8.42	0.88	9.30	583.02	NP	0.00	7.34	NA	7.56	1.29	8.85	582.69
November 28, 2002	8.45	0.82	9.27	582.99	NA	NA	NA	NA	7.63	0.86	8.59	582.64
December 19, 2002	8.43	0.90	9.33	583.01	NA	NA	NA	NA	7.56	1.24	8.80	582.69
January 10, 2003	8.49	0.83	9.32	582.95	NA	NA	NA	NA	7.59	1.19	8.78	582.66
February 25, 2003	8.51	1.01	9.52	582.92	NA	NA	7.58	NA	7.71	1.37	9.08	582.53
March 27, 2003	8.46	0.84	9.30	582.98	NP	0.00	7.67	NA	7.80	1.10	8.70	582.66
April 29, 2003	8.44	0.71	9.15	583.01	NP	0.00	7.62	NA	7.56	1.21	8.77	582.69
May 29, 2003	7.60	0.50	8.10	583.87	NP	0.00	7.17	NA	7.04	1.07	8.11	583.22
June 25, 2003	8.35	0.67	9.02	583.11	NP	0.00	7.48	NA	7.41	1.18	8.59	582.85
July 30, 2003	8.20	0.75	8.93	583.25	NP	0.00	7.32	NA	7.30	1.13	8.43	582.96
August 4, 2003	8.17	0.73	8.90	583.28	NP	0.00	7.30	NA	7.27	1.14	8.41	582.99
September 18, 2003	8.35	0.80	9.15	583.10	NP	0.00	7.33	NA	7.50	1.35	8.85	582.74
November 10, 2003	8.30	0.87	9.17	583.14	NP	0.00	7.35	NA	7.55	1.20	8.75	582.70
December 29, 2003	8.40	0.91	9.31	583.04	NP	0.00	7.41	NA	7.75	1.09	8.84	582.51
February 26, 2004	8.45	1.02	9.47	582.98	NA	NA	NA	NA	NP	0.00	7.54	582.81
March 8, 2004	8.18	0.44	8.62	583.29	NA	NA	NA	NA	NA	NA	NA	NA
April 29, 2004	7.98	0.56	8.54	583.49	NA	NA	NA	NA	NP	0.00	7.21	583.14
June 1, 2004	NA	NA	NA	NA	NA	NA	NA	NA	7.37	1.24	8.61	582.88
June 30, 2004	8.55	0.06	8.61	582.96	6.71	0.01	6.72	NA	NA	NA	NA	NA
July 28, 2004	8.32	0.36	8.68	583.16	6.88	0.01	6.89	NA	7.45	1.25	8.70	582.80
August 17, 2004	8.33	0.49	8.82	583.14	7.01	0.01	7.02	NA	7.46	1.33	8.79	582.78
September 27, 2004	8.42	0.48	8.90	583.05	7.18	0.01	7.19	NA	7.51	1.02	8.53	582.76
October 29, 2004	NA	NA	NA	NA	7.24	0.01	7.25	NA	NA	NA	NA	NA
November 30, 2004	8.39	0.72	9.11	583.06	NP	0.00	7.11	NA	NA	NA	NA	NA
December 27, 2004	NA	NA	NA	NA	NP	0.00	7.11	NA	7.53	0.59	8.12	582.77
January 26, 2005	NA	NA	NA	NA	NP	0.00	7.01	NA	7.55	0.65	8.20	582.75
February 7, 2005	8.00	0.19	8.19	583.49	7.11	0.01	7.12	NA	7.17	0.39	7.56	583.15
March 17, 2005	8.34	0.28	8.62	583.15	NP	0.00	7.22	NA	7.63	0.65	8.28	582.67
April 13, 2005	8.33	0.35	8.68	583.15	NP	0.00	7.12	NA	7.46	0.69	8.15	582.83
May 31, 2005	8.29	0.38	8.67	583.19	NP	0.00	6.98	NA	7.58	0.83	8.39	582.72
June 28, 2005	8.06	0.04	8.10	583.45	6.67	0.01	6.68	NA	7.39	0.58	7.95	582.92
July 29, 2005	8.06	0.02	8.08	583.45	NP	0.00	6.73	NA	7.44	0.82	8.26	582.84
August 18, 2005	8.24	0.17	8.41	583.26	NP	0.00	6.83	NA	7.51	1.26	8.77	582.74
September 28, 2005	8.36	0.21	8.57	583.13	NP	0.00	7.04	NA	7.49	0.32	7.81	582.83
October 18, 2005	8.51	0.42	8.93	582.97	NP	0.00	7.26	NA	7.57	0.32	7.89	582.75
November 30, 2005	8.41	0.32	8.73	583.07	NP	0.00	7.16	NA	7.54	0.51	8.05	582.77
December 26, 2005	8.32	0.35	8.67	583.16	NP	0.00	7.19	NA	7.54	1.24	8.78	582.71
January 31, 2006	8.08	0.27	8.35	583.41	NP	0.00	6.79	NA	7.45	0.16	7.61	582.89
February 24, 2006	8.32	0.33	8.65	583.16	NP	0.00	6.99	NA	7.56	0.60	8.16	582.74
March 22, 2006	8.17	0.06	8.25	583.33	NP	0.00	6.75	NA	7.42	0.14	7.56	582.92
April 27, 2006	8.33	0.11	8.44	583.17	NP	0.00	6.84	NA	7.43	0.26	7.69	582.90
May 25, 2006	8.20	0.18	8.38	583.30	NP	0.00	6.62	NA	7.39	0.36	7.75	582.93
June 27, 2006	8.39	0.31	8.70	583.10	NP	0.00	6.79	NA	7.43	0.37	7.80	582.89
July 11, 2006	8.27	0.36	8.63	583.21	NP	0.00	6.79	NA	7.46	0.34	7.80	582.86
August 23, 2006	8.36	0.19	8.55	583.13	NP	0.00	6.81	NA	7.39	0.47	7.86	582.92
September 26, 2006	8.21	0.23	8.44	583.28	NP	0.00	6.70	NA	7.41	0.29	7.70	582.92
October 30, 2006	8.07	0.15	8.22	583.43	NP	0.00	6.56	NA	7.35	0.38	7.73	582.97
November 27, 2006	8.29	0.16	8.45	583.21	NP	0.00	6.79	NA	7.37	0.34	7.71	582.95
December 27, 2006	NA	NA	NA	NA	NP	0.00	6.83	NA	7.36	0.33	7.69	582.96
January 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	7.41	0.38	7.79	582.91
March 6, 2007	8.44	0.29	8.73	583.05	NA	NA	NA	NA	7.51	0.51	8.02	582.80
March 23, 2007	8.41	0.33	8.74	583.07	NP	0.00	7.13	NA	7.51	0.46	7.97	582.80
April 30, 2007	8.34	0.36	8.70	583.14	NP	0.00	6.89	NA	7.48	0.25	7.73	582.85
May 17, 2007	8.32	0.19	8.51	583.17	NP	0.00	6.86	NA	7.13	0.33	7.46	583.19
June 12, 2007	8.33	0.38	8.71	583.15	NP	0.00	6.91	NA	7.47	0.28	7.75	582.86
July 18, 2007	8.39	NA	NA	NA	NP	0.00	7.02	NA	7.46	0.32	7.78	582.86
August 28, 2007	NA	NA	NA	NA	NP	0.00	6.96	NA	7.46	0.29	7.75	582.87
September 19, 2007	NA	NA	NA	NA	NP	0.00	6.66	NA	6.87	0.11	6.98	583.47

See Notes on Page 6.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Date	MW-179WT reference elevation not available				MW-180WT reference elevation = 590.67				RW-1 reference elevation = 592.18			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
September 25, 2002	--	--	--	--	--	--	--	--	NA	NA	NA	NA
October 29, 2002	--	--	--	--	--	--	--	--	8.98	0.22	9.20	583.18
November 26, 2002	--	--	--	--	--	--	--	--	9.03	0.18	9.21	583.14
December 19, 2002	--	--	--	--	--	--	--	--	NA	NA	NA	NA
January 10, 2003	--	--	--	--	--	--	--	--	NA	NA	NA	NA
February 25, 2003	--	--	--	--	--	--	--	--	NA	NA	NA	NA
March 27, 2003	--	--	--	--	--	--	--	--	9.06	0.58	9.64	583.07
April 29, 2003	--	--	--	--	--	--	--	--	8.99	0.79	9.78	583.13
May 29, 2003	--	--	--	--	--	--	--	--	8.49	0.41	8.90	583.66
June 25, 2003	--	--	--	--	--	--	--	--	8.58	0.43	9.01	583.57
July 30, 2003	--	--	--	--	--	--	--	--	8.43	0.46	8.89	583.71
August 4, 2003	--	--	--	--	--	--	--	--	8.40	0.45	8.85	583.74
September 18, 2003	--	--	--	--	--	--	--	--	8.70	0.45	9.15	583.44
November 10, 2003	--	--	--	--	--	--	--	--	8.59	0.33	8.92	583.56
December 29, 2003	--	--	--	--	--	--	--	--	9.19	0.76	9.95	582.93
February 26, 2004	--	--	--	--	--	--	--	--	9.00	4.40	13.40	582.83
March 8, 2004	--	--	--	--	--	--	--	--	8.10	0.18	8.28	584.07
April 29, 2004	--	--	--	--	--	--	--	--	8.63	0.17	8.80	583.54
June 1, 2004	--	--	--	--	--	--	--	--	7.71	0.27	7.98	584.45
June 30, 2004	--	--	--	--	--	--	--	--	8.30	0.13	8.43	583.87
July 28, 2004	--	--	--	--	--	--	--	--	8.76	0.39	9.15	583.39
August 17, 2004	--	--	--	--	--	--	--	--	8.89	0.46	9.35	583.25
September 27, 2004	--	--	--	--	--	--	--	--	8.87	0.38	9.25	583.28
October 29, 2004	--	--	--	--	--	--	--	--	NA	NA	NA	NA
November 30, 2004	--	--	--	--	--	--	--	--	8.79	0.95	9.74	583.31
December 27, 2004	--	--	--	--	--	--	--	--	8.76	0.55	9.31	583.38
January 26, 2005	--	--	--	--	--	--	--	--	8.43	1.29	9.72	583.65
February 7, 2005	--	--	--	--	--	--	--	--	8.59	0.70	9.29	583.53
March 17, 2005	NP	0.00	7.13	NA	7.15	0.02	7.17	583.62	NA	NA	NA	NA
April 13, 2005	NP	0.00	6.91	NA	NP	0.00	6.87	583.80	8.60	0.28	8.88	583.56
May 31, 2005	NP	0.00	6.96	NA	NP	0.00	7.01	583.66	8.58	0.21	8.79	583.58
June 28, 2005	NP	0.00	6.82	NA	6.84	0.01	6.85	583.83	8.13	0.21	8.34	584.03
July 29, 2005	NP	0.00	6.73	NA	NP	0.00	6.73	583.94	8.05	0.17	8.22	584.12
August 18, 2005	NP	0.00	6.78	NA	NP	0.00	6.78	583.89	8.16	0.79	8.97	583.94
September 28, 2005	NP	0.00	6.95	NA	6.99	0.01	7.00	583.68	8.81	0.59	9.40	583.32
October 18, 2005	NP	0.00	7.14	NA	7.20	0.01	7.21	583.47	8.83	0.91	9.74	583.28
November 30, 2005	7.03	0.01	7.04	NA	NP	0.00	7.11	583.56	8.54	0.68	9.22	583.59
December 26, 2005	NP	0.00	7.14	NA	NP	0.00	7.20	583.47	NA	NA	NA	NA
January 31, 2006	NP	0.00	7.63	NA	NP	0.00	6.81	583.66	NA	NA	NA	NA
February 24, 2006	NP	0.00	7.82	NA	NP	0.00	6.81	583.66	8.49	0.33	8.82	583.66
March 22, 2006	NP	0.00	6.68	NA	NP	0.00	6.69	583.98	8.35	0.52	8.87	583.79
April 27, 2006	6.79	0.01	6.80	NA	NP	0.00	6.82	583.85	8.72	0.67	9.39	583.41
May 25, 2006	NP	0.00	6.74	NA	NP	0.00	6.76	583.91	8.45	0.56	9.01	583.69
June 27, 2006	NP	0.00	6.84	NA	NP	0.00	6.85	583.82	8.71	0.71	9.42	583.41
July 11, 2006	NP	0.00	6.83	NA	NP	0.00	6.90	583.77	8.49	0.86	9.35	583.62
August 23, 2006	NP	0.00	6.61	NA	NP	0.00	6.65	584.02	8.51	0.97	9.48	583.59
September 26, 2006	NA	NA	NA	NA	NP	0.00	6.76	583.91	8.31	0.48	8.79	583.83
October 30, 2006	NA	NA	NA	NA	NP	0.00	6.49	584.18	NA	NA	NA	NA
November 27, 2006	NA	NA	NA	NA	NP	0.00	6.59	584.08	8.43	0.61	9.04	583.70
December 27, 2006	NA	NA	NA	NA	NP	0.00	6.64	584.03	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NP	0.00	6.76	583.91	NA	NA	NA	NA
March 6, 2007	NP	0.00	7.13	NA	NP	0.00	7.16	583.51	8.53	0.27	8.80	583.63
March 23, 2007	NP	0.00	6.90	NA	NP	0.00	6.93	583.74	8.31	0.27	8.58	583.85
April 30, 2007	NP	0.00	6.56	NA	NP	0.00	6.58	584.09	8.52	0.09	8.61	583.65
May 17, 2007	NA	NA	NA	NA	NP	0.00	6.52	584.15	8.38	0.14	8.52	583.79
June 12, 2007	NP	0.00	6.87	NA	NP	0.00	6.58	584.09	8.39	0.07	8.46	583.78
July 18, 2007	NP	0.00	6.75	NA	NP	0.00	6.78	583.89	8.46	0.63	9.09	583.67
August 28, 2007	NP	0.00	6.82	NA	NP	0.00	6.85	583.82	8.23	0.11	8.34	583.94
September 19, 2007	NP	0.00	6.65	NA	NP	0.00	6.69	583.98	7.93	0.11	8.04	584.24

See Notes on Page 6.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Date	RW-2 reference elevation = 592.07				RW-3 reference elevation = 592.32				TP-2			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (corrected)
September 25, 2002	8.93	0.01	8.94	583.14	8.60	0.01	8.61	583.72	8.95	0.30	9.25	NA
October 29, 2002	8.99	0.01	9.00	583.08	NP	0.00	8.69	583.63	9.04	0.30	9.34	NA
November 26, 2002	NA	NA	NA	NA	NA	NA	NA	NA	9.11	0.29	9.40	NA
December 19, 2002	NP	0.00	9.08	582.99	NP	0.00	8.82	583.50	NA	NA	NA	NA
January 10, 2003	NP	0.00	9.06	583.01	NP	0.00	8.83	583.49	NA	NA	NA	NA
February 25, 2003	9.19	0.01	9.20	582.88	9.00	0.01	9.01	583.32	9.39	0.67	9.96	NA
March 27, 2003	9.11	0.01	9.12	582.96	8.93	0.01	8.94	583.39	NA	NA	NA	NA
April 29, 2003	9.01	0.01	9.02	583.06	8.51	0.01	8.52	583.81	9.15	0.01	9.16	NA
May 29, 2003	8.65	0.01	8.66	583.42	7.35	0.01	7.36	584.97	8.68	0.01	8.69	NA
June 25, 2003	9.63	0.01	9.64	582.44	8.95	0.01	8.96	583.37	8.82	0.79	9.61	NA
July 30, 2003	9.47	0.01	9.48	582.60	8.78	0.01	8.79	583.54	8.71	0.78	9.49	NA
August 4, 2003	8.46	0.01	8.47	582.61	8.73	0.01	8.74	583.59	8.65	0.78	9.43	NA
September 18, 2003	8.92	0.01	8.93	583.15	NP	0.00	8.26	584.04	NA	NA	NA	NA
November 10, 2003	NP	0.00	8.95	583.12	NP	0.00	8.23	584.09	8.59	0.61	9.20	NA
December 29, 2003	NP	0.00	9.01	583.06	8.28	0.01	8.29	584.04	9.35	0.27	9.62	NA
February 26, 2004	NA	NA	NA	NA	8.50	0.01	8.51	583.82	9.03	3.40	12.43	NA
March 8, 2004	NA	NA	NA	NA	8.27	0.01	8.28	584.05	NA	NA	NA	NA
April 29, 2004	NA	NA	NA	NA	7.78	0.01	7.79	584.54	8.65	0.75	9.40	NA
June 1, 2004	NA	NA	NA	NA	NP	0.00	6.61	586.71	7.64	0.23	7.87	NA
June 30, 2004	8.66	0.01	8.67	583.41	NP	0.00	7.44	584.86	NA	NA	NA	NA
July 28, 2004	8.83	0.01	8.84	583.24	NP	0.00	8.14	584.18	NA	NA	NA	NA
August 17, 2004	8.94	0.01	8.95	583.13	NP	0.00	8.51	583.81	NA	NA	NA	NA
September 27, 2004	9.09	0.01	9.10	582.98	NP	0.00	8.50	583.82	8.75	0.71	9.46	NA
October 29, 2004	8.71	0.02	8.73	583.36	NP	0.00	7.72	584.60	NA	NA	NA	NA
November 30, 2004	9.02	0.01	9.03	583.05	NP	0.00	8.07	584.25	8.67	1.00	9.67	NA
December 27, 2004	NP	0.00	9.03	583.04	NP	0.00	7.84	584.48	NA	NA	NA	NA
January 26, 2005	NP	0.00	8.69	583.38	NP	0.00	5.92	585.40	8.33	1.09	9.42	NA
February 7, 2005	NP	0.00	8.73	583.34	NP	0.00	7.57	584.75	8.44	1.05	9.49	NA
March 17, 2005	NP	0.00	8.92	583.15	NP	0.00	7.82	584.50	8.61	1.30	9.91	NA
April 13, 2005	NP	0.00	8.94	583.13	NP	0.00	7.83	584.49	8.49	1.13	9.62	NA
May 31, 2005	NP	0.00	8.93	583.14	NP	0.00	7.88	584.44	8.54	0.33	8.87	NA
June 28, 2005	NP	0.00	8.71	583.36	NP	0.00	7.04	585.28	8.01	0.48	8.49	NA
July 29, 2005	NP	0.00	8.69	583.38	NP	0.00	6.77	585.55	7.97	0.25	8.22	NA
August 18, 2005	NP	0.00	8.67	583.40	NP	0.00	7.72	584.60	8.28	0.75	9.03	NA
September 28, 2005	NP	0.00	9.01	583.06	NP	0.00	8.41	583.91	8.69	0.82	9.51	NA
October 18, 2005	NP	0.00	8.99	583.08	NP	0.00	8.41	583.91	--	--	--	NA
November 30, 2005	NP	0.00	8.93	583.14	NP	0.00	8.02	584.30	--	--	--	NA
December 26, 2005	NP	0.00	8.99	583.08	NP	0.00	7.98	584.34	8.43	0.87	9.30	NA
January 31, 2006	NP	0.00	8.72	583.35	NP	0.00	5.50	586.82	7.82	0.72	8.54	NA
February 24, 2006	NP	0.00	8.87	583.20	NP	0.00	6.78	585.54	8.36	1.04	9.40	NA
March 22, 2006	NA	NA	NA	NA	NP	0.00	6.29	586.03	8.22	0.81	9.03	NA
April 27, 2006	NA	NA	NA	NA	NP	0.00	7.66	584.66	8.57	0.99	9.56	NA
May 25, 2006	NA	NA	NA	NA	NP	0.00	7.25	585.07	8.31	0.96	9.27	NA
June 27, 2006	NA	NA	NA	NA	NP	0.00	7.91	584.41	NA	NA	NA	NA
July 11, 2006	NA	NA	NA	NA	NP	0.00	7.34	584.98	8.03	1.70	9.73	NA
August 23, 2006	NA	NA	NA	NA	NP	0.00	7.89	584.43	NA	NA	NA	NA
September 26, 2006	NP	0.00	8.90	583.17	NP	0.00	7.08	585.24	NA	NA	NA	NA
October 30, 2006	NP	0.00	8.75	583.32	NP	0.00	7.05	585.27	NA	NA	NA	NA
November 27, 2006	NP	0.00	8.94	583.13	NP	0.00	7.50	584.82	NA	NA	NA	NA
December 27, 2006	NP	0.00	8.76	583.31	NP	0.00	7.33	584.69	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NP	0.00	7.90	584.42	NA	NA	NA	NA
March 6, 2007	NP	0.00	9.14	582.93	NP	0.00	8.18	584.14	8.54	0.92	9.46	NA
March 23, 2007	NP	0.00	8.64	583.43	NA	NA	NA	NA	8.26	0.89	9.17	NA
April 30, 2007	NP	0.00	8.98	583.09	NP	0.00	8.03	584.29	8.37	0.79	9.16	NA
May 17, 2007	NP	0.00	8.99	583.08	NP	0.00	7.98	584.34	8.34	0.77	9.11	NA
June 12, 2007	NP	0.00	9.03	583.04	NP	0.00	8.21	584.11	8.29	0.76	9.05	NA
July 18, 2007	NP	0.00	9.07	583.00	NP	0.00	8.27	584.05	8.44	0.61	8.45	NA
August 28, 2007	NP	0.00	9.00	583.07	NP	0.00	7.57	584.75	8.12	0.45	8.57	NA
September 19, 2007	NP	0.00	8.44	583.63	NP	0.00	7.03	585.29	7.82	0.11	7.93	NA

See Notes on Page 6.

TABLE 2  
GROUNDWATER AND LNAPL MEASUREMENT SUMMARY  
SEPTEMBER 2002 THROUGH THE PRESENT

GENERAL MOTORS CORPORATION  
SAGINAW MALLEABLE IRON PLANT  
SAGINAW, MICHIGAN

Notes:

The reference elevation for each of the recovery wells (RW-1, RW-2, RW-3, and RW-4) is the ground surface elevation; approximately equal to the elevation of the edge of the vault.

NA = not available; monitoring well inaccessible (e.g., covered by pallet, gravel, roll-off, vehicle, or snowpile).

-- = Not measured.

NP = LNAPL was not present in well. An LNAPL density of 0.92 was used to correct the water level elevations for the presence of LNAPL. LNAPL is periodically removed by bailing from monitoring well MW-178WT.