



Infrastructure, environment, facilities

Ms. Susan Kaelber-Matlock
Environmental Response Division
Michigan Department of Environmental Quality
Saginaw Bay District
401 Ketchum Street
Bay City, MI 48708

Subject:

Monthly Report #175 – June 2009
GM Saginaw Malleable Iron (SMI) Plant Property, former REALM Inc. Green Point
Landfill and Drum Remediation Area RI/FS/RAP, and Green Point Landfill Closure

Dear Ms. Kaelber-Matlock:

On behalf of the General Motors Corporation (GM), and Waste Management, Inc. (WMI), the June 2009 monthly report for the GM SMI Plant Property and the REALM Green Point Landfill Property is attached.

As you are aware, GM has entered into bankruptcy and the legacy company, which has been renamed *Motors Liquidation Corporation (MLC)*, retains responsibility for the SMI and Green Point Landfill Properties. MLC is being managed by the court-approved reorganization company, Alix Partners. To provide consistency, I will act as the Project Manager for the implementation of the Remedial Action Plan (RAP) at the two properties on behalf of MLC, until further notice. As a result of these changes, this letter provides notification of a change in the GM Project Coordinator for the Site, provided in accordance with Section IX, Paragraph 9.1, of the Consent Judgment No. 98-22686-CE-2. The individuals listed below will be acting in this role for MLC.

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Imagine the result

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ARCADIS

Ms. Kaelber-Matlock
July 15, 2009

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There are several deliverables/actions with near term scheduled due dates under the Consent Judgment, including submittal of a Financial Assurance Mechanism for RAP implementation, filing of the restrictive covenants with the Saginaw County Register of Deeds, and construction of permanent markers to define the various restrictions placed on different areas of the site. On behalf of MLC and WMI, we request an extension of unspecified duration for completion of these items. As additional information becomes available regarding the functional aspects of MLC, we will identify a specific schedule for completion of these deliverables and actions.

Based on the conditional approval of the RAP, we would also like to implement the Operation, Maintenance and Monitoring (OM&M) Plan contained in the RAP (Appendix C) from this point forward. In accordance with the OM&M Plan, preparation of monthly reports would be discontinued, replaced by annual report preparation.

Please contact me if you have any questions regarding the enclosed information.

Sincerely,

ARCADIS



Lisa R. Coffey
Principal Geologist

LRC/plf

Copies:

Mr. Allan Brouillet, MDEQ, ERD
John Fordell Leone, Esq., Department of Attorney General
Mr. Scott Haeger, Alix Partners
Mr. Jim Redwine, Alix Partners
Mr. Kent Bainbridge/Mr. Jim Forney, Waste Management, Inc.
Ms. Jo Ann Robertson, ARCADIS

Key Correspondence and Communications

- The May 2009 monthly report, dated June 15, 2009, was submitted to the MDEQ.

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, is not currently operating. The recovery wells and the monitoring wells were gauged on June 12, 2009. Small accumulations of LNAPL were recorded (Table 1).
- The Quench Pit Area was not accessed during June 2009, due to health and safety concerns associated with the abandoned plant building, including the development of potential mold hazards.

Significant Green Point Landfill Closure Activities and Events

- None during June 2009.

Anticipated Activities for July 2009

- Continuation of LNAPL recovery activities using manual means in the area of the LNAPL recovery system located south of the plant building.

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-147WT reference elevation = 592.07				MW-157WT reference elevation = 591.72				MW-158WT 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)
January 26, 2005	6.28	2.03	8.31	585.63	--	--	--	--	NP	0.00	7.98	583.80
February 7, 2005	6.57	1.96	8.53	585.34	--	--	--	--	8.07	0.02	8.09	583.71
March 17, 2005	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	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	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	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	6.19	1.75	7.94	585.74	6.96	0.23	7.19	584.74	NP	0.00	7.98	583.80
September 28, 2005	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	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	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	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	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	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	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	6.37	0.14	6.51	585.34	NP	0.00	7.95	583.83
June 27, 2006	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	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	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	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	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	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	6.12	1.65	7.77	585.82	7.00	0.02	7.02	584.72	NP	0.00	7.94	583.84
January 25, 2007	NA	NA	NA	NA	7.42	0.04	7.46	584.30	NA	NA	NA	NA
March 6, 2007	7.08	1.60	8.68	584.86	NP	0.00	7.72	584.00	NA	NA	NA	NA
March 23, 2007	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	6.13	1.47	7.60	585.82	7.10	0.05	7.15	584.62	8.05	0.01	8.06	583.73
May 17, 2007	6.19	1.57	7.76	585.75	7.16	0.04	7.20	584.56	NA	NA	NA	NA
June 12, 2007	6.30	1.58	7.88	585.64	7.20	0.02	7.22	584.52	NP	0.00	8.11	583.67
July 18, 2007	6.42	1.62	8.04	585.52	7.19	0.02	7.21	584.53	NP	0.00	8.16	583.62
August 28, 2007	5.93	1.51	7.44	585.02	6.71	0.02	6.73	585.01	NP	0.00	7.97	583.81
September 19, 2007	5.59	1.53	7.12	586.36	6.03	0.12	6.15	585.68	NP	0.00	7.51	584.27
October 25, 2007	6.53	1.72	8.25	585.40	7.46	0.08	7.54	584.25	NP	0.00	8.31	583.47
November 27, 2007	6.47	1.58	8.05	585.47	7.06	0.06	7.12	584.66	NP	0.00	7.84	584.14
January 22, 2008	5.46	1.18	6.64	586.52	6.01	0.26	6.27	585.69	NP	0.00	6.49	585.29
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	4.09	1.23	5.32	587.88	NA	NA	NA	NA	NP	0.00	5.42	586.36
April 7, 2008	4.68	0.97	5.65	587.31	4.96	0.31	5.27	586.74	NP	0.00	5.66	586.12
May 5, 2008	5.91	0.74	6.65	586.10	5.72	0.29	6.01	585.98	NP	0.00	6.88	585.10
June 2, 2008	5.98	0.66	6.64	586.04	6.26	0.25	6.51	585.44	NP	0.00	6.81	584.97
July 7, 2008	4.96	0.64	5.80	587.06	5.21	0.18	5.39	586.50	NP	0.00	6.00	585.78
August 13, 2008	5.19	0.63	5.82	586.83	5.32	0.18	5.50	586.39	NP	0.00	6.21	585.57
September 8, 2008	5.45	0.51	5.96	586.58	5.61	0.18	5.79	586.10	NP	0.00	6.35	585.43
October 9, 2008	5.16	0.42	5.58	586.88	5.36	0.16	5.52	586.35	NP	0.00	6.03	585.75
November 20, 2008	5.85	0.30	6.15	586.20	5.66	0.28	5.94	586.04	NP	0.00	6.64	585.14
December 15, 2008	5.55	0.29	5.84	586.50	5.92	0.13	6.05	585.79	NP	0.00	6.37	585.41
January 6, 2009	4.60	0.28	4.88	587.45	NA	NA	NA	NA	NP	0.00	NA	NA
February 10, 2009	5.09	0.19	5.28	586.96	5.31	0.15	5.46	586.40	NP	0.00	5.92	585.86
March 5, 2009	4.91	0.29	5.20	587.14	5.05	0.13	5.18	586.66	NP	0.00	5.82	585.96
April 13, 2009	4.66	0.30	4.96	587.39	4.84	0.14	4.98	586.87	NP	0.00	5.42	586.36
May 6, 2009	3.74	0.29	4.03	588.31	4.15	0.17	4.32	587.56	NP	0.00	4.80	586.98
June 12, 2009	4.69	0.31	5.20	587.16	5.02	0.13	5.15	586.69	NP	0.00	5.66	586.12

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-160WT reference elevation = 591.53				MW-169WT reference elevation = 591.82				MW-172WT reference elevation = 591.51			
	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)
January 26, 2005	8.21	0.35	8.56	583.29	NA	NA	NA	NA	NA	NA	NA	NA
February 7, 2005	8.10	0.11	8.21	583.42	NP	0.00	8.17	583.65	8.00	0.19	8.19	583.49
March 17, 2005	8.43	0.13	8.56	583.09	NA	NA	NA	NA	8.34	0.28	8.62	583.15
April 13, 2005	8.39	0.13	8.52	583.13	NA	NA	NA	NA	8.33	0.35	8.68	583.15
May 31, 2005	8.39	0.15	8.54	583.13	NP	0.00	8.20	583.62	8.29	0.38	8.67	583.19
June 28, 2005	8.14	0.09	8.23	583.38	NP	0.00	7.92	583.90	8.06	0.04	8.10	583.45
July 29, 2005	8.13	0.04	8.17	583.40	NP	0.00	7.92	583.90	8.06	0.02	8.08	583.45
August 18, 2005	8.30	0.04	8.34	583.23	NA	NA	NA	NA	8.24	0.17	8.41	583.26
September 28, 2005	8.46	0.02	8.48	583.07	NA	NA	NA	NA	8.36	0.21	8.57	583.13
October 18, 2005	8.66	0.06	8.72	582.87	NA	NA	NA	NA	8.51	0.42	8.93	582.97
November 30, 2005	8.52	0.01	8.53	583.01	NA	NA	NA	NA	8.41	0.32	8.73	583.07
December 26, 2005	8.44	0.01	8.45	583.09	NA	NA	NA	NA	8.32	0.35	8.67	583.16
January 31, 2006	NP	0.00	8.21	583.32	NA	NA	NA	NA	8.08	0.27	8.35	583.41
February 24, 2006	NP	0.00	8.38	583.15	NA	NA	NA	NA	8.32	0.33	8.65	583.16
March 22, 2006	8.24	0.01	8.25	583.29	NA	NA	NA	NA	8.17	0.08	8.25	583.33
April 27, 2006	NP	0.00	8.43	583.10	NA	NA	NA	NA	8.33	0.11	8.44	583.17
May 25, 2006	NA	NA	NA	NA	NA	NA	NA	NA	8.20	0.18	8.38	583.30
June 27, 2006	NP	0.00	8.44	583.09	NA	NA	NA	NA	8.39	0.31	8.70	583.10
July 11, 2006	NP	0.00	8.40	583.13	NA	NA	NA	NA	8.27	0.36	8.63	583.21
August 23, 2006	NP	0.00	8.41	583.12	NA	NA	NA	NA	8.36	0.19	8.55	583.13
September 26, 2006	NP	0.00	8.32	583.21	NA	NA	NA	NA	8.21	0.23	8.44	583.28
October 30, 2006	NP	0.00	8.13	583.40	NA	NA	NA	NA	8.07	0.15	8.22	583.43
November 27, 2006	NP	0.00	8.40	583.13	NA	NA	NA	NA	8.29	0.16	8.45	583.21
December 27, 2006	NP	0.00	8.34	583.19	NA	NA	NA	NA	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 6, 2007	NP	0.00	8.59	582.94	NA	NA	NA	NA	8.44	0.29	8.73	583.05
March 23, 2007	NP	0.00	8.53	583.00	NA	NA	NA	NA	8.41	0.33	8.74	583.07
April 30, 2007	NP	0.00	8.46	583.07	NA	NA	NA	NA	8.34	0.36	8.70	583.14
May 17, 2007	NP	0.00	8.44	583.09	NA	NA	NA	NA	8.32	0.19	8.51	583.17
June 12, 2007	NP	0.00	8.50	583.03	NA	NA	NA	NA	8.33	0.38	8.71	583.15
July 18, 2007	NP	0.00	8.54	582.99	NP	0.00	8.31	583.51	NA	NA	NA	NA
August 28, 2007	NP	0.00	8.46	583.07	NA	NA	NA	NA	NA	NA	NA	NA
September 19, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
October 25, 2007	NA	NA	NA	NA	NA	NA	NA	NA	NP	0.00	8.42	583.09
November 27, 2007	NP	0.00	7.61	583.92	NA	NA	NA	NA	7.50	0.02	7.52	584.01
January 7, 2008	NP	0.00	6.31	585.22	NA	NA	NA	NA	NP	0.00	6.16	585.35
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	5.82	0.03	5.85	585.71	NA	NA	NA	NA	NP	0.00	5.73	585.78
April 7, 2008	5.96	0.06	6.02	585.57	NA	NA	NA	NA	NP	0.00	5.88	585.63
May 5, 2008	6.89	0.03	7.13	584.43	NA	NA	NA	NA	NP	0.00	6.85	584.66
June 2, 2008	6.80	0.23	7.03	584.71	NP	0.00	7.10	584.72	NP	0.00	6.75	584.76
July 7, 2007	6.08	0.21	6.29	585.43	NP	0.00	6.56	585.26	NP	0.00	5.99	585.52
August 13, 2008	6.31	0.21	6.52	585.20	NP	0.00	6.78	585.04	NA	NA	NA	NA
September 8, 2008	6.54	0.12	6.66	584.98	NP	0.00	7.03	584.79	NA	NA	NA	NA
October 9, 2008	6.11	0.09	6.20	585.41	NP	0.00	6.72	584.69	6.00	0.02	6.02	585.51
November 20, 2008	6.66	0.23	6.89	584.85	NP	0.00	7.13	584.69	6.57	0.15	6.72	584.93
December 15, 2008	NP	0.00	6.30	585.23	NP	0.00	7.09	584.73	NA	NA	NA	NA
January 6, 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
February 10, 2009	6.08	0.07	6.15	585.44	NP	0.00	6.64	585.18	NA	NA	NA	NA
March 5, 2009	5.94	0.07	6.01	585.58	NA	NA	NA	NA	NP	0.00	6.08	585.43
April 13, 2009	5.77	0.09	5.86	585.75	NP	0.00	6.24	585.58	6.68	0.03	6.71	584.83
May 6, 2009	5.27	0.14	5.41	586.25	NP	0.00	5.73	586.09	5.19	0.03	5.22	586.32
June 12, 2009	5.90	0.27	6.17	585.61	NP	0.00	6.34	585.46	5.84	0.02	5.86	585.67

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-175WT reference elevation not available				MW-178WT reference elevation = 590.35				MW-179WT reference elevation not available			
	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)
January 26, 2005	NP	0.00	7.01	NA	7.55	0.65	8.20	582.75	--	--	--	--
February 7, 2005	7.11	0.01	7.12	NA	7.17	0.39	7.56	583.15	--	--	--	--
March 17, 2005	NP	0.00	7.22	NA	7.63	0.65	8.28	582.67	NP	0.00	7.13	NA
April 13, 2005	NP	0.00	7.12	NA	7.46	0.69	8.15	582.83	NP	0.00	6.91	NA
May 31, 2005	NP	0.00	6.98	NA	7.56	0.83	8.39	582.72	NP	0.00	6.96	NA
June 28, 2005	6.67	0.01	6.68	NA	7.39	0.56	7.95	582.92	NP	0.00	6.82	NA
July 29, 2005	NP	0.00	6.73	NA	7.44	0.82	8.26	582.84	NP	0.00	6.73	NA
August 18, 2005	NP	0.00	6.83	NA	7.51	1.26	8.77	582.74	NP	0.00	6.78	NA
September 28, 2005	NP	0.00	7.04	NA	7.49	0.32	7.81	582.83	NP	0.00	6.95	NA
October 18, 2005	NP	0.00	7.26	NA	7.57	0.32	7.89	582.75	NP	0.00	7.14	NA
November 30, 2005	NP	0.00	7.16	NA	7.54	0.51	8.05	582.77	7.03	0.01	7.04	NA
December 26, 2005	NP	0.00	7.19	NA	7.54	1.24	8.78	582.71	NP	0.00	7.14	NA
January 31, 2006	NP	0.00	6.79	NA	7.45	0.16	7.61	582.89	NP	0.00	7.63	NA
February 24, 2006	NP	0.00	6.99	NA	7.56	0.80	8.16	582.74	NP	0.00	7.82	NA
March 22, 2006	NP	0.00	6.75	NA	7.42	0.14	7.56	582.92	NP	0.00	6.68	NA
April 27, 2006	NP	0.00	6.84	NA	7.43	0.26	7.69	582.90	6.79	0.01	6.80	NA
May 25, 2006	NP	0.00	6.62	NA	7.39	0.36	7.75	582.93	NP	0.00	6.74	NA
June 27, 2006	NP	0.00	6.79	NA	7.43	0.37	7.80	582.89	NP	0.00	6.84	NA
July 11, 2006	NP	0.00	6.79	NA	7.46	0.34	7.80	582.86	NP	0.00	6.83	NA
August 23, 2006	NP	0.00	6.81	NA	7.39	0.47	7.86	582.92	NP	0.00	6.61	NA
September 26, 2006	NP	0.00	6.70	NA	7.41	0.29	7.70	582.92	NA	NA	NA	NA
October 30, 2006	NP	0.00	6.56	NA	7.35	0.38	7.73	582.97	NA	NA	NA	NA
November 27, 2006	NP	0.00	6.79	NA	7.37	0.34	7.71	582.95	NA	NA	NA	NA
December 27, 2006	NP	0.00	6.83	NA	7.36	0.33	7.69	582.96	NA	NA	NA	NA
January 25, 2007	NA	NA	NA	NA	7.41	0.38	7.79	582.91	NA	NA	NA	NA
March 6, 2007	NP	0.00	7.13	NA	7.51	0.51	8.02	582.80	NP	0.00	7.13	NA
March 23, 2007	NP	0.00	6.89	NA	7.51	0.46	7.97	582.80	NP	0.00	6.90	NA
April 30, 2007	NP	0.00	6.89	NA	7.48	0.25	7.73	582.85	NP	0.00	6.56	NA
May 17, 2007	NP	0.00	6.86	NA	7.13	0.33	7.46	583.19	NA	NA	NA	NA
June 12, 2007	NP	0.00	6.91	NA	7.47	0.28	7.75	582.86	NP	0.00	6.57	NA
July 18, 2007	NP	0.00	7.02	NA	7.46	0.32	7.78	582.86	NP	0.00	6.75	NA
August 28, 2007	NP	0.00	6.96	NA	7.46	0.29	7.75	582.87	NP	0.00	6.82	NA
September 19, 2007	NP	0.00	6.66	NA	6.87	0.11	6.98	583.47	NP	0.00	6.85	NA
October 25, 2007	NP	0.00	7.08	NA	7.59	0.25	7.84	582.74	NP	0.00	6.98	NA
November 27, 2007	NA	NA	NA	NA	6.52	0.14	6.66	583.82	NA	NA	NA	NA
January 7, 2008	NP	0.00	6.53	NA	5.44	0.05	5.49	584.91	NA	NA	NA	NA
February 22, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
March 17, 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
April 7, 2008	NP	0.00	5.84	NA	5.30	0.02	5.32	585.05	NP	0.00	6.46	NA
May 5, 2008	NP	0.00	6.31	NA	6.25	0.02	6.27	584.10	NA	NA	NA	NA
June 2, 2008	NP	0.00	6.39	NA	5.93	0.01	5.94	584.42	NP	0.00	6.55	NA
July 7, 2007	NP	0.00	5.96	NA	5.32	0.02	5.34	585.03	NA	NA	NA	NA
August 13, 2008	NP	0.00	6.14	NA	NP	0.00	5.81	584.54	NA	NA	NA	NA
September 8, 2008	NP	0.00	6.36	NA	5.86	0.01	5.87	584.49	NA	NA	NA	NA
October 9, 2008	NP	0.00	6.13	NA	NP	0.00	5.68	584.67	NA	NA	NA	NA
November 20, 2008	NP	0.00	6.58	NA	NP	0.00	6.18	584.17	NA	NA	NA	NA
December 15, 2008	NP	0.00	6.44	NA	NP	0.00	5.56	584.79	NA	NA	NA	NA
January 6, 2009	NA	NA	NA	NA	NP	0.00	5.42	584.93	NA	NA	NA	NA
February 10, 2009	NP	0.00	6.15	NA	NP	0.00	5.57	584.78	NA	NA	NA	NA
March 5, 2009	NA	NA	NA	NA	NP	0.00	5.55	584.80	NP	0.00	6.41	NA
April 13, 2009	NP	0.00	5.84	NA	NP	0.00	5.20	585.15	NP	0.00	6.04	NA
May 6, 2009	NP	0.00	5.42	NA	NP	0.00	4.84	585.51	NA	NA	NA	NA
June 12, 2009	NP	0.00	5.93	NA	NP	0.00	5.49	584.86	NA	NA	NA	NA

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	MW-180WT reference elevation = 590.87				RW-1 reference elevation = 592.18				RW-2 reference elevation = 592.07			
	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water	Groundwater Elevation (corrected)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Water	Groundwater Elevation (corrected)
January 26, 2005	--	--	--	--	8.43	1.29	9.72	583.65	NP	0.00	8.69	583.38
February 7, 2005	--	--	--	--	8.59	0.70	9.29	583.53	NP	0.00	8.73	583.34
March 17, 2005	7.15	0.02	7.17	583.52	NA	NA	NA	NA	NP	0.00	8.92	583.15
April 13, 2005	NP	0.00	6.87	583.80	8.60	0.28	8.88	583.56	NP	0.00	8.94	583.13
May 31, 2005	NP	0.00	7.01	583.66	8.58	0.21	8.79	583.58	NP	0.00	8.93	583.14
June 28, 2005	6.84	0.01	6.85	583.83	8.13	0.21	8.34	584.03	NP	0.00	8.71	583.36
July 29, 2005	NP	0.00	6.73	583.94	8.05	0.17	8.22	584.12	NP	0.00	8.69	583.38
August 18, 2005	NP	0.00	6.78	583.89	8.18	0.79	8.97	583.94	NP	0.00	8.67	583.40
September 28, 2005	6.99	0.01	7.00	583.88	8.81	0.59	9.40	583.32	NP	0.00	9.01	583.06
October 18, 2005	7.20	0.01	7.21	583.47	8.83	0.91	9.74	583.28	NP	0.00	8.99	583.08
November 30, 2005	NP	0.00	7.11	583.56	8.54	0.68	9.22	583.59	NP	0.00	8.93	583.14
December 26, 2005	NP	0.00	7.20	583.47	NA	NA	NA	NA	NP	0.00	8.99	583.08
January 31, 2006	NP	0.00	6.81	583.86	NA	NA	NA	NA	NP	0.00	8.72	583.35
February 24, 2006	NP	0.00	6.81	583.86	8.49	0.33	8.82	583.86	NP	0.00	8.87	583.20
March 22, 2006	NP	0.00	6.69	583.98	8.35	0.52	8.87	583.79	NA	NA	NA	NA
April 27, 2006	NP	0.00	6.92	583.85	8.72	0.67	9.39	583.41	NA	NA	NA	NA
May 25, 2006	NP	0.00	6.76	583.91	8.45	0.56	9.01	583.69	NA	NA	NA	NA
June 27, 2006	NP	0.00	6.85	583.82	8.71	0.71	9.42	583.41	NA	NA	NA	NA
July 11, 2006	NP	0.00	6.90	583.77	8.49	0.86	9.35	583.62	NA	NA	NA	NA
August 23, 2006	NP	0.00	6.65	584.02	8.51	0.97	9.48	583.59	NA	NA	NA	NA
September 26, 2006	NP	0.00	6.76	583.91	8.31	0.48	8.79	583.83	NP	0.00	8.90	583.17
October 30, 2006	NP	0.00	6.49	584.18	NA	NA	NA	NA	NP	0.00	8.75	583.32
November 27, 2006	NP	0.00	6.59	584.08	8.43	0.61	9.04	583.70	NP	0.00	8.94	583.13
December 27, 2006	NP	0.00	6.64	584.03	NA	NA	NA	NA	NP	0.00	8.76	583.31
January 25, 2007	NP	0.00	6.76	583.91	NA	NA	NA	NA	NP	0.00	8.99	583.08
March 6, 2007	NP	0.00	7.16	583.51	8.53	0.27	8.80	583.63	NP	0.00	9.14	582.93
March 23, 2007	NP	0.00	6.93	583.74	8.31	0.27	8.58	583.85	NP	0.00	8.64	583.43
April 30, 2007	NP	0.00	6.58	584.09	8.52	0.09	8.61	583.65	NP	0.00	8.98	583.09
May 17, 2007	NP	0.00	6.52	584.15	8.38	0.14	8.52	583.79	NP	0.00	9.03	583.04
June 12, 2007	NP	0.00	6.58	584.09	8.39	0.07	8.46	583.78	NP	0.00	9.07	583.00
July 18, 2007	NP	0.00	6.78	583.89	8.46	0.63	9.09	583.67	NP	0.00	9.00	583.07
August 28, 2007	NP	0.00	6.85	583.82	8.23	0.11	8.34	583.94	NP	0.00	8.44	583.63
September 19, 2007	NP	0.00	6.69	583.98	7.93	0.11	8.04	584.24	NP	0.00	8.93	583.14
October 25, 2007	NP	0.00	7.02	583.65	8.80	0.45	9.25	583.34	NP	0.00	8.04	584.03
November 27, 2007	NP	0.00	7.07	583.60	8.03	0.15	8.18	584.14	NP	0.00	NA	NA
January 7, 2008	NP	0.00	7.01	583.66	6.76	0.04	6.80	585.42	NA	NA	NA	NA
February 22, 2008	NA	NA	NA	NA	6.06	0.03	6.09	586.12	NP	0.00	6.56	585.51
March 17, 2008	NA	NA	NA	NA	5.95	0.02	5.97	586.23	NP	0.00	6.36	585.71
April 7, 2008	NP	0.00	6.45	584.22	6.24	0.06	6.30	585.94	NP	0.00	6.51	585.56
May 5, 2008	NP	0.00	6.52	584.15	7.17	0.02	7.19	585.01	NP	0.00	6.18	585.89
June 2, 2008	NP	0.00	6.96	584.11	7.16	0.03	7.19	585.02	NP	0.00	7.33	584.74
July 7, 2007	NP	0.00	6.14	584.53	6.24	0.01	6.25	585.94	NA	NA	NA	NA
August 13, 2008	NP	0.00	6.25	584.42	NP	0.00	6.49	585.69	NA	NA	NA	NA
September 8, 2008	NP	0.00	6.45	584.22	NP	0.00	6.60	585.58	NA	NA	NA	NA
October 9, 2008	NP	0.00	6.31	584.36	NP	0.00	6.34	585.84	NP	0.00	6.69	585.38
November 20, 2008	NP	0.00	6.56	584.11	NP	0.00	6.99	585.19	NP	0.00	7.19	584.88
December 15, 2008	NP	0.00	6.84	584.03	NA	NA	NA	NA	NP	0.00	NA	NA
January 6, 2009	NP	0.00	6.25	584.42	NA	NA	NA	NA	NP	0.00	NA	NA
February 10, 2009	NP	0.00	6.58	584.09	NP	0.00	6.06	586.12	NP	0.00	6.53	585.54
March 5, 2009	NP	0.00	6.40	584.27	NP	0.00	6.21	585.97	NP	0.00	6.63	585.44
April 13, 2009	NP	0.00	6.01	584.66	NP	0.00	5.77	586.41	NP	0.00	6.32	585.75
May 6, 2009	NP	0.00	5.66	585.01	NP	0.00	4.96	587.22	NP	0.00	5.81	586.26
June 12, 2009	NP	0.00	6.10	584.57	NP	0.00	5.91	586.27	NP	0.00	3.85	586.22

See Notes on Page 6.

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM Saginaw Malleable Iron Plant, Saginaw, Michigan

Date	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)
January 26, 2005	NP	0.00	6.92	585.40	8.33	1.09	9.42	NA
February 7, 2005	NP	0.00	7.57	584.75	8.44	1.05	9.49	NA
March 17, 2005	NP	0.00	7.82	584.50	8.61	1.30	9.91	NA
April 13, 2005	NP	0.00	7.83	584.49	8.49	1.13	9.62	NA
May 31, 2005	NP	0.00	7.88	584.44	8.54	0.33	8.87	NA
June 28, 2005	NP	0.00	7.04	585.28	8.01	0.48	8.49	NA
July 29, 2005	NP	0.00	6.77	585.55	7.97	0.25	8.22	NA
August 18, 2005	NP	0.00	7.72	584.60	8.28	0.75	9.03	NA
September 28, 2005	NP	0.00	8.41	583.91	8.69	0.82	9.51	NA
October 18, 2005	NP	0.00	8.41	583.91	--	--	--	NA
November 30, 2005	NP	0.00	8.02	584.30	--	--	--	NA
December 26, 2005	NP	0.00	7.98	584.34	8.43	0.87	9.30	NA
January 31, 2006	NP	0.00	5.50	586.82	7.82	0.72	8.54	NA
February 24, 2006	NP	0.00	6.78	585.54	8.36	1.04	9.40	NA
March 22, 2006	NP	0.00	6.29	586.03	8.22	0.81	9.03	NA
April 27, 2006	NP	0.00	7.66	584.66	8.57	0.99	9.56	NA
May 25, 2006	NP	0.00	7.25	585.07	8.31	0.96	9.27	NA
June 27, 2006	NP	0.00	7.91	584.41	NA	NA	NA	NA
July 11, 2006	NP	0.00	7.34	584.98	8.03	1.70	9.73	NA
August 23, 2006	NP	0.00	7.89	584.43	NA	NA	NA	NA
September 26, 2006	NP	0.00	7.08	585.24	NA	NA	NA	NA
October 30, 2006	NP	0.00	7.05	585.27	NA	NA	NA	NA
November 27, 2006	NP	0.00	7.50	584.82	NA	NA	NA	NA
December 27, 2006	NP	0.00	7.33	584.98	NA	NA	NA	NA
January 25, 2007	NP	0.00	7.90	584.42	NA	NA	NA	NA
March 6, 2007	NP	0.00	8.18	584.14	8.54	0.92	9.46	NA
March 23, 2007	NP	NA	NA	NA	8.28	0.89	9.17	NA
April 30, 2007	NP	0.00	8.03	584.29	8.37	0.79	9.16	NA
May 17, 2007	NP	0.00	7.98	584.34	8.34	0.77	9.11	NA
June 12, 2007	NP	0.00	8.21	584.11	8.29	0.76	9.05	NA
July 18, 2007	NP	0.00	8.27	584.05	8.44	0.01	8.45	NA
August 28, 2007	NP	0.00	7.57	584.75	8.12	0.45	8.57	NA
September 19, 2007	NP	0.00	7.03	585.29	7.82	0.11	7.93	NA
October 25, 2007	NP	0.00	8.32	584.00	8.69	0.39	9.08	NA
November 27, 2007	NP	0.00	8.22	584.10	7.95	0.22	8.17	NA
January 7, 2008	NP	0.00	7.30	585.02	6.66	0.04	6.70	NA
February 22, 2008	NP	0.00	5.19	587.13	NA	NA	NA	NA
March 17, 2008	NP	0.00	4.45	587.87	5.79	0.02	5.81	NA
April 7, 2008	NP	0.00	5.03	587.29	6.15	0.02	6.17	NA
May 5, 2008	NP	0.00	6.79	585.53	7.18	0.01	7.19	NA
June 2, 2008	NP	0.00	7.51	584.81	7.09	0.02	7.11	NA
July 7, 2007	NP	0.00	6.78	585.54	6.13	0.03	6.16	NA
August 13, 2008	NP	0.00	6.95	585.37	6.38	0.04	6.42	NA
September 8, 2008	NP	0.00	7.31	585.01	6.80	0.02	6.82	NA
October 9, 2008	NP	0.00	6.83	585.49	NP	0.00	6.25	NA
November 20, 2008	NP	0.00	7.56	584.76	6.89	0.02	6.91	NA
December 15, 2008	NP	0.00	7.39	584.93	6.37	0.01	6.38	NA
January 6, 2009	NP	0.00	NA	NA	NP	0.00	5.68	NA
February 10, 2009	NP	0.00	5.83	586.49	NP	0.00	5.99	NA
March 5, 2009	NP	0.00	5.74	586.58	NP	0.00	6.10	NA
April 13, 2009	NP	0.00	5.66	586.66	NP	0.00	5.68	NA
May 6, 2009	NP	0.00	4.44	587.88	NP	0.00	4.87	NA
June 12, 2009	NP	0.00	6.48	585.84	NP	0.00	5.83	NA

Table 1. Groundwater and LNAPL Measurement Summary, January 2005 Through the Present, GM 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.