



Ms. Jill Groboski
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Subject:
Results of 2008 Annual Groundwater Sampling Event
GM NAO Flint Operations Site, Flint, Michigan

Dear Ms. Groboski:

This report is being submitted on behalf of Kurt Blizzard of the General Motors Corporation (GM) by ARCADIS, to present the results of groundwater monitoring activities completed at GM's North American Operations (NAO) Flint Operations Site in Flint, Michigan (the Site). These monitoring activities were performed in September 2008, in accordance with Section 2.7 of GM's report entitled *Migration of Contaminated Groundwater Under Control Environmental Indicator* (ENVIRON International Corporation, September 23, 2005) (CA 750 Report).

Date:
January 28, 2009

Contact:
Lisa R. Coffey, P.G.

Phone:
315.671.9164

This report summarizes the scope of monitoring activities completed during the 2008 Annual Monitoring Event, the data collected, and the follow-up activities recommended in response to the resulting data.

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SCOPE OF MONITORING EVENT

Our ref:
B0064410 #2.04

On September 8 through 11, 2008, groundwater elevation and light non-aqueous phase liquid (LNAPL) thickness monitoring was completed at the Site. Table 1 summarizes the groundwater elevations and LNAPL thickness measurements. Figures 1 and 2 illustrate groundwater elevation contours, prepared based on these data.

From September 10 through 18, 2008, groundwater samples were collected from 43 monitoring wells. Thirty-six of these wells were sampled per Table 2-6 in the September 2005 CA 750 Report, while seven other monitoring wells (70-165, RFI-81-51, 87-FP-4, 43-140, 40-303R, 40-304, and RFI-16-04R) were added to the program per GM's October 10, 2007, responses to the United States Environmental Protection Agency's (USEPA's) April 17, 2007, comments on the *Corrective Measures Proposal* (CMP) (dated December 22, 2006). These seven locations were added to the program to provide supplemental data to confirm groundwater quality in select areas of the Site. Recommendations to reduce the number of supplemental sampling locations, based on the collected data, are presented at the end of this letter.

Table 2 provides a summary of the monitoring wells sampled in September 2008, the associated analytical parameters, as well as the owner of the property on which each

Imagine the result

monitoring well is located. As noted in Table 2, well MW-23 was inaccessible and sampling was performed at nearby location RFI-09-46 as a replacement for the original location.

All monitoring wells were sampled using low-flow sampling methods in accordance with the *Field Sampling Plan* (FSP) (Blasland, Bouck, and Lee [BBL], 2005). The static groundwater level in each well was measured to the nearest hundredth of 1 foot using an electronic water-level probe prior to sampling. Each well was purged until measured field parameters (i.e., temperature, specific electrical conductivity, dissolved oxygen, oxidation/reduction potential, pH, and turbidity) stabilized. These field-measured data are summarized in Table 3. Groundwater samples were submitted to Merit Analytical Laboratories of East Lansing, Michigan, as specified in the FSP, and analyzed using the procedures specified in the *Quality Assurance Project Plan* (QAPP) (BBL, 2005). The analytical results were validated, as specified in the QAPP, by Conestoga-Rovers & Associates of Waterloo, Ontario. The associated *Data Validation Report* is included as Attachment 1, and the validated results from the laboratory are summarized in Table 4. No substantive issues were identified during the data validation.

The results of the CA 750 groundwater monitoring program and the supplemental sampling program completed to support the CMP are discussed separately below. The CA 750 groundwater monitoring program will be replaced by the CMP program once it has been approved by the USEPA.

CA 750 GROUNDWATER SAMPLING RESULTS

The laboratory analytical data for constituents that were detected during the September 2008 monitoring activities are summarized in Table 4. Data for certain constituents are also summarized along with historical groundwater data from these locations and other monitoring wells on Figures 3 through 12. The results of the September CA750 sampling event are consistent with the results from prior monitoring events, except as identified below.

- RFI-36-47 (AOI 36-1, Figure 3): The concentration of 1,1-dichloroethene has increased from non-detect in 2007 to 0.031 mg/L in 2008, which exceeds the drinking water criterion of 0.007 mg/L. 1,1-Dichloroethene was previously detected at this location above the drinking water criterion in 2005. The concentration of vinyl chloride increased from non-detect in 2007 to 0.003 mg/L in 2008, which slightly exceeds the drinking water criterion of 0.002 mg/L. Vinyl chloride was previously detected at this location above the drinking water criterion in 2005.
- RFI-36-04 (AOI 36-1, Figure 3): The concentration of vinyl chloride increased from non-detect in 2001 to 0.003 mg/L in 2008, which slightly exceeded the drinking water criterion of 0.002 mg/L.

- 20-500R (AOI 36-5, Figure 4): The concentration of benzene increased from 0.025 mg/L in 2006 to 0.065 mg/L in 2007, both of which exceeded the drinking water criterion of 0.005 mg/L. In 2008, the concentration of benzene decreased to 0.004 mg/L, which is below the drinking water criterion.
- 20-FP10R (AOI 10-4, Figure 6): The concentration of TCE increased from 0.002 mg/L in 2007 to 0.007 mg/L in 2008, which slightly exceeded the drinking water criterion of 0.005 mg/L.
- RFI-17-02D (AOI 84-D, Figure 9): The concentrations of benzene increased from 0.031 mg/L in June 2008 to 0.072 mg/L in September 2008, both of which exceeded the drinking water criterion of 0.005 mg/L. Benzene did not exceed the drinking water criterion prior to June 2008.

A downgradient monitoring well (RFI-84-12) was installed at the GM property line on November 24, 2008, to monitor benzene concentrations at the GM property boundary. The monitoring well construction log is provided in Attachment 2. This new well was sampled as part of the fourth quarter 2008 groundwater monitoring event in early December and analytical results will be provided in the *Fourth Quarter Groundwater Monitoring Report*.

- RFI-09-53 (AOI 09-A, Figure 12): The concentration of vinyl chloride increased from 0.005 mg/L in 2007 to 0.023 mg/L in 2008, both of which exceeded the drinking water criterion of 0.002 mg/L. Vinyl chloride has not been detected in downgradient monitoring well RFI-09-04R.

SUPPLEMENTAL CMP GROUNDWATER SAMPLING RESULTS

The following monitoring wells were included in the CA 750 Annual Monitoring Events in 2007 and 2008 to support the proposed CMP (ARCADIS, 2008): 70-165, RFI-81-51, 87-FP-4, 43-140, 40-303R, 40-304, and RFI-16-04R. A summary of the results of the monitoring and recommendations for future monitoring are provided below:

- 43-140 (AOI 40-D, Figure 5): The concentrations of TCE remained stable from 2003 through 2007, and decreased from 0.205 mg/L in November 2007 to 0.093 mg/L in September 2008, both of which exceed the drinking water criterion of 0.005 mg/L.
- 70-165 (AOI 81-2, Figure 7): The concentrations of lead increased from 0.054 mg/L in 2007 to 0.092 in 2008, both of which exceeded the drinking water criterion of 0.004 mg/L.
- RFI-81-51 (AOI 81-3, Figure 7): The concentrations of TCE increased from 0.025 mg/L in 2007 to 0.070 mg/L in 2008, both of which exceed the drinking

water criterion of 0.005 mg/L. The concentrations of PCE increased from 0.002 mg/L in 2007 to 0.006 mg/L in 2008, which slightly exceeds the drinking water criterion of 0.005 mg/L. Concentrations of cis-1,2-DCE and vinyl chloride exceeding the drinking water criteria in 2007; however, the results from 2008 do not exceed the drinking water criteria.

- 87-FP-4 (AOI 86-1, Figure 8): Samples were collected in 2007 and 2008 for volatile organic compounds (VOCs) to monitor downgradient of AOI 86-1. VOCs were not detected at concentrations above Part 201 criteria.
- 40-303R, 40-304, and RFI-16-04R (AOI 40-D, Figure 11): Samples were collected from the three monitoring wells in 2007 and 2008 for Polychlorinated Biphenyls (PCBs) to monitor PCB concentrations near the Building 40 Tunnel. PCBs were not detected in any of the groundwater samples.

FOLLOW-UP ACTIVITIES

As noted above, a monitoring well (RFI-84-12) was installed at the GM property line on November 24, 2008, to monitor benzene concentrations at the GM property boundary, downgradient of monitoring well RFI-17-02D. It is proposed that this well be sampled for VOCs as part of future groundwater monitoring events, until benzene concentrations stabilize (i.e., are not increasing) in the upgradient monitoring well for two consecutive monitoring events. The remaining CA 750 monitoring wells associated with data that are inconsistent with previous analytical results will continue to be sampled, and the data will be evaluated to determine if changes in the groundwater sampling program become warranted.

The following activities are proposed in relation to the seven supplemental CMP monitoring wells which have been sampled as described in GM's responses to the USEPA's comments on the CMP:

- Based on the stable TCE concentrations detected at monitoring well 43-140 from 2003 to 2007, and the decrease in the associated TCE concentration in 2008, no further monitoring of this well is proposed.
- It is uncertain if the concentrations of total lead at monitoring well 70-165 have stabilized; as such, this well will continue to be sampled as part of future monitoring events until concentrations of lead are stable or decreasing for two consecutive monitoring events.
- It is uncertain if the concentrations of VOCs at monitoring well RFI-81-51 have stabilized; as such this well will continue to be sampled as part of future monitoring events until VOC concentrations are stable or decreasing for two consecutive monitoring events.


- VOCs were not detected at monitoring well 87-FP-4 in 2007 and 2008, which was sampled to monitor groundwater quality downgradient of AOI 86-1. No further monitoring of these wells is proposed.
- Since PCBs have not been detected at monitoring wells 40-303R, 40-304, RFI-16-04R in 2007 and 2008, which were included to monitor PCB concentrations near the Building 40 Tunnel, no further monitoring of these wells is proposed.

The next CA 750 Annual Monitoring Event is scheduled to be performed during the third quarter of 2009.

If you have any questions, please contact me.

Sincerely,

ARCADIS



Lisa R. Coffey, P.G.
Principal Geologist

Attachments:

- Table 1 – Groundwater Elevation Data
- Table 2 – September 2008 Groundwater Sample Collection Summary
- Table 3 – Field Parameter Measurements
- Table 4 – Groundwater Analytical Results

- Figure 1 – Groundwater Elevation Contour Map – September 8-11, 2008 North End
- Figure 2 – Groundwater Elevation Contour Map – September 8-11, 2008 South End
- Figure 3 – Groundwater Analytical Data – Building 36 Area
- Figure 4 – Groundwater Analytical Data – Building 20 Area
- Figure 5 – Groundwater Analytical Data – Factory 5 (Building 43) Area
- Figure 6 – Groundwater Analytical Data – Building 30 Area
- Figure 7 – Groundwater Analytical Data – Factory 81 (Building 69, 70, 71, 72, 73, and 74) Area
- Figure 8 – Groundwater Analytical Data – Building 07, 21, 85 and 86 Area
- Figure 9 – Groundwater Analytical Data – Former Buildings 03, 17, 28, 84, and 94 Area
- Figure 10 – Groundwater Analytical Data – Former Building 02, 12, 23, and 29 Area
- Figure 11 – Groundwater Analytical Data – Former Building 04, 08, 16, 40 and 44 Area
- Figure 12 – Groundwater Analytical Data – Former Building 09 Area

- Attachment 1 – Data Validation Report

Copies:

Kurt Blizzard, GM (hard copy)
Jean Caufield, GM (hard copy)
Amanda Kurzman, GM (CD)
James Walle, GM (CD)
Peter Quackenbush and William Yocum, MDEQ (hard copy)
Stephen Song/Francis Ramacciotti, ENVIRON (hard copy)
Derek Kaiding, ARCADIS (hard copy)
Flint Public Library, c/o Derek Kaiding (ARCADIS) (hard copy and CD)
Consumers Energy Company (CD)
City of Flint (CD)
PPG Industries, Inc. (CD)
CSX Transport, Inc. (CD)
E.I. DuPont de Nemours and Company (CD)
Crown Enterprises, Inc. (CD)

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Tables

Table 1. Groundwater Elevation Data, CA 750 Groundwater Monitoring Program, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Well ID	Reference Point Elevation (feet)	September 8 - 11, 2008				
		Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
04-4	NA		0.00	6.62	NA	--
03-105R3	747.76		0.00	8.15	739.61	--
03-114R	764.72		0.00	11.62	753.10	--
03-3R	746.47	10.40	2.94	13.34	733.13	735.78
04-160	729.13		0.00	12.60	716.53	--
20-145	749.34		0.00	9.02	740.32	--
20-160	752.81		0.00	11.80	741.01	--
20-162	753.48	11.97	0.63	12.60	740.88	741.50
20-163R	750.58	10.96	0.01	10.97	739.61	739.62
20-168	753.44	12.83	0.96	13.79	739.65	740.60
20-500R	750.77		0.00	9.22	741.55	--
20-502	751.29	9.45	2.26	11.71	739.58	741.82
20-503	751.54	10.68	0.67	11.35	740.19	740.85
20-506	751.35		0.00	9.77	741.58	--
20-FP-10R	NA		0.00	6.95	NA	--
20-FP-11R	744.09		0.00	4.36	739.73	--
20-FP5	748.82		0.00	8.10	740.72	--
20-FP-8	748.73	8.84	0.70	9.54	739.19	739.88
20-FP-9R	749.21		0.00	8.96	740.25	--
31-5	736.12		0.00	9.98	726.14	--
31-8	730.26		0.00	9.32	720.94	--
36 FP2	750.30	11.92	0.14	12.06	738.24	738.37
36 FP3	749.41	10.77	0.48	11.25	738.16	738.59
36 FP4	753.70		0.00	15.08	738.62	--
36 FP6	749.51	9.7	0.85	10.55	738.96	--
36 FP7	750.02	11.49	3.71	15.20	734.82	738.16
36 FP8	748.83		0.00	7.98	740.85	--
37-RW-NORTH	NA	10.12	0.18	10.30	NA	--
37-RW-SOUTH	NA		0.00	10.42		--
40-07R2	735.37	11.25	3.50	14.75	720.62	723.84
40-3	737.01		0.00	12.80	724.21	--
40-302	732.96		0.00	6.90	726.06	--
40-303R	730.41		0.00	12.15	718.26	--
40-304	731.11		0.00	3.22	727.89	--
40-305	731.24		0.00	3.90	727.34	--
40-6R	735.00		0.00	4.67	730.33	--
43-140	750.14		0.00	10.17	739.97	--
43-161	750.19	9.10	0.01	9.11	741.08	741.09
43-165	749.41	8.20	0.53	8.73	740.68	741.17
43-166	747.97		0.00	6.75	741.22	--
43-167	748.43		0.00	7.43	741.00	--
43-242	753.64		0.00	12.38	741.26	--
55-1	753.43		0.00	11.40	742.03	--
55-2	753.06		0.00	10.70	742.36	--
70-101	742.68	4.18	0.99	5.17	737.51	738.41
70-103	743.78	4.76	1.94	6.70	737.08	738.85
70-105	743.58		0.00	4.78	738.80	--
70-107R	742.80	5.2	2.55	7.75	735.05	737.37
70-163	742.59		0.00	4.75	737.84	--
70-165	741.26		0.00	4.59	736.67	--
84-6R2-D	726.80		0.00	5.00	721.80	--
84-7-D	727.42		0.00	6.92	720.50	--
87-FP1	715.79		0.00	1.47	714.32	--
87-FP4	742.11		0.00	21.03	721.08	--
87-FPD2	742.05		0.00	14.99	727.06	--
87-FPD3	742.05		0.00	24.71	717.34	--
88-7	742.20		0.00	5.31	736.89	--
ACSP-B2AR	738.66		0.00	25.88	712.78	--
BD01-01	744.29		0.00	24.50	719.79	--
MW-00-FP6	740.73		0.00	16.55	724.18	--
MW-16	713.53		0.00	3.93	709.60	--

See Notes on Page 4.

Table 1. Groundwater Elevation Data, CA 750 Groundwater Monitoring Program, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Well ID	Reference Point Elevation (feet)	September 8 - 11, 2008				
		Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
MW-17	714.54		0.00	4.93	709.61	--
MW-18	714.33		0.00	4.00	710.33	--
MW-19	712.00		0.00	2.35	709.65	--
MW-25	722.38		0.00	8.40	713.98	--
RFI-02-05	738.88		0.00	2.71	736.17	--
RFI-02-08R	736.07		0.00	7.84	728.23	--
RFI-02-12	738.51		0.00	5.45	733.06	--
RFI-02-13	731.00		0.00	1.92	729.08	--
RFI-02-14	738.73	5.75	6.10	11.85	726.88	732.68
RFI-02-24	729.88		0.00	1.38	728.50	--
RFI-03-02	742.35		0.00	6.23	736.12	--
RFI-03-04	746.67		0.00	7.41	739.26	--
RFI-05-06	752.13		0.00	11.47	740.66	--
RFI-05-13	754.16	12.55	3.55	16.10	738.06	741.33
RFI-05-14	754.12	12.63	1.87	14.50	739.62	741.34
RFI-07-03	726.74		0.00	dry		--
RFI-07-08	728.12		0.00	12.61	715.51	--
RFI-09-04R	725.95		0.00	14.98	710.97	--
RFI-09-14	724.44		0.00	6.10	718.34	--
RFI-09-40R	729.76	6.81	2.84	9.65	720.11	722.24
RFI-09-44	728.22		0.00	5.85	722.37	--
RFI-09-45R	729.76		0.00	6.34	723.42	--
RFI-09-46	723.07		0.00	8.78	714.29	--
RFI-09-48	719.69		0.00	10.23	709.46	--
RFI-09-49R	726.43		0.00	14.88	711.55	--
RFI-09-52	730.21		0.00	8.07	722.14	--
RFI-09-53	725.48		0.00	10.31	715.17	--
RFI-09-56	726.93		0.00	5.36	721.57	--
RFI-09-57	724.90		0.00	5.76	719.14	--
RFI-09-58	723.38		0.00	5.35	718.03	--
RFI-10-24	751.53		0.00	11.36	740.17	--
RFI-10-26	749.32		0.00	8.44	740.88	--
RFI-10-28	752.58		0.00	13.15	739.43	--
RFI-10-29	752.40		0.00	13.41	738.99	--
RFI-10-33	755.30		0.00	13.46	741.84	--
RFI-10-35	755.69		0.00	15.48	740.21	--
RFI-10-36	752.82		0.00	13.31	739.51	--
RFI-12-01R	741.98		0.00	4.39	737.59	--
RFI-12-02R	742.10	3.09	4.37	7.46	734.64	738.70
RFI-12-07R2	741.95		0.00	3.20	738.75	--
RFI-12-08 (Replaced)	742.08	10.70	0.31	11.01	731.07	731.36
RFI-12-09R	741.97	4.25	2.35	6.60	735.37	737.56
RFI-12-11D	742.09	7.47	7.48	14.95	727.14	734.10
RFI-12-11S	742.17		0.00	4.40	737.77	--
RFI-12-14R	742.20		0.00	4.54	737.66	--
RFI-12-15	742.13		0.00	4.24	737.89	--
RFI-12-21	741.50		0.00	9.70	731.80	--
RFI-12-22R	742.07		0.00	3.55	738.52	--
RFI-12-23	742.21	7.61	3.34	10.95	731.26	734.37
RFI-12-24	742.12		0.00	3.23	738.89	--
RFI-12-25	741.85		0.00	3.59	738.26	--
RFI-12-26	742.04		0.00	3.78	738.26	--
RFI-12-32	738.61		0.00	2.52	736.09	--
RFI-12-33	743.66		0.00	4.87	738.79	--
RFI-12-34	744.02		0.00	5.10	738.92	--
RFI-12-35	743.83	5.58	1.37	6.95	736.88	738.15
RFI-12-38	742.39	5.25	0.65	5.90	736.49	737.09
RFI-12-40	741.47		0.00	5.36	736.11	--
RFI-12-41	741.56		0.00	3.67	737.89	--
RFI-16-01	736.10		0.00	6.90	729.20	--

See Notes on Page 4.

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RFI-16-04R	732.12		0.00	7.42	724.70	--
RFI-16-07	733.26		0.00	6.10	727.16	--
RFI-16-08	733.24	6.30	0.70	7.00	726.24	726.84
RFI-16-09	733.39		0.00	5.91	727.48	--
RFI-16-10	736.09	8.05	0.30	8.35	727.74	728.00
RFI-16-12	735.58		0.00	8.22	727.36	--
RFI-16-20	NA		0.00	6.88	NA	--
RFI-16-24	736.39		0.00	8.14	728.25	--
RFI-17-02	720.27		0.00	4.82	715.45	--
RFI-17-02D	720.36		0.00	4.79	715.57	--
RFI-23-01R	741.73		0.00	3.27	738.46	--
RFI-23-02R	740.08		0.00	3.33	736.75	--
RFI-36-04	756.14		0.00	17.41	738.73	--
RFI-36-05	755.07		0.00	16.50	738.57	--
RFI-36-06	755.29	16.22	0.93	17.15	738.14	738.91
RFI-36-07	753.99	15.72	2.00	17.72	736.27	737.93
RFI-36-12	753.52		0.00	11.26	742.26	--
RFI-36-13	751.81		0.00	10.35	741.46	--
RFI-36-14	750.00		0.00	8.07	741.93	--
RFI-36-19	753.31		0.00	15.08	738.23	--
RFI-36-25R	754.67		0.00	14.14	740.53	--
RFI-36-29R	753.72	14.81	3.12	17.93	735.79	738.38
RFI-36-37	757.15		0.00	18.72	738.43	--
RFI-36-46	750.13		0.00	12.09	738.04	--
RFI-36-47	749.26		0.00	14.77	734.49	--
RFI-36-48	757.71		0.00	20.63	737.08	--
RFI-36-55	750.49		0.00	13.44	737.05	--
RFI-36-56	749.97		0.00	12.63	737.34	--
RFI-40-01R2	734.05		0.00	2.50	731.55	--
RFI-40-02R	735.34	7.47	2.33	9.80	725.54	725.54
RFI-40-03	735.33		0.00	7.65	727.68	--
RFI-40-04	728.15		0.00	10.14	718.01	--
RFI-40-07	729.35		0.00	2.05	727.30	--
RFI-40-09	731.85		0.00	8.95	722.90	--
RFI-40-10R	735.17		0.00	6.64	728.53	--
RFI-40-12R	743.12	8.62	0.88	9.50	733.62	734.43
RFI-40-13	731.92		0.00	7.04	724.88	--
RFI-40-15	732.18		0.00	2.50	729.68	--
RFI-55-01	751.85		0.00	8.36	743.49	--
RFI-55-02	752.88		0.00	10.20	742.68	--
RFI-55-12	752.26		0.00	8.55	743.71	--
RFI-81-02	745.92		0.00	14.91	731.01	--
RFI-81-03	745.70		0.00	14.63	731.07	--
RFI-81-08	741.43		0.00	8.69	732.74	--
RFI-81-09	745.89		0.00	12.98	732.91	--
RFI-81-21	753.80		0.00	14.86	738.94	--
RFI-81-33	736.94		0.00	4.72	732.22	--
RFI-81-35	743.23		0.00	13.86	729.37	--
RFI-81-45	742.87		0.00	6.01	736.86	--
RFI-81-50	740.60		0.00	4.25	736.35	--
RFI-81-51	742.35		0.00	13.17	729.18	--
RFI-83/84-01	741.34		0.00	3.33	738.01	--
RFI-83/84-54	746.41		0.00	8.27	738.14	--
RFI-84-03S	727.23		0.00	9.32	717.91	--
RFI-84-04D	727.08		0.00	9.01	718.07	--
RFI-84-04I	727.23		0.00	9.15	718.08	--
RFI-84-05	726.63		0.00	6.16	720.47	--
RFI-84-06R	720.12		0.00	4.60	715.52	--
RFI-84-06RD	720.18		0.00	6.71	713.47	--
RFI-84-07	727.12		0.00	7.52	719.60	--

See Notes on Page 4.

Table 1. Groundwater Elevation Data, CA 750 Groundwater Monitoring Program, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Well ID	Reference Point Elevation (feet)	September 8 - 11, 2008				
		Depth to LNAPL (feet)	LNAPL Thickness (feet)	Depth to Groundwater (feet)	Groundwater Elevation	Groundwater Elevation Corrected for LNAPL
RFI-84-08	727.22		0.00	9.62	717.60	--
RFI-84-09D	719.27		0.00	8.41	710.86	--
RFI-84-09S	719.43		0.00	9.26	710.17	--
RFI-84-11S	721.97		0.00	3.61	718.36	--
RFI-85-02R	742.91		0.00	11.78	731.13	--
RFI-85-04R	745.95		0.00	18.61	727.34	--
RFI-85-05	745.95		0.00	20.81	725.14	--
RFI-86-01R	735.51		0.00	21.37	714.14	--
RFI-86-02	735.65	8.10	0.01	8.11	727.54	727.55
RFI-86-03	736.62	7.37	0.00	7.41	729.21	729.24
RFI-86-06D	737.21		0.00	22.10	715.11	--
RFI-86-06S	737.32		0.00	12.00	725.32	--
RFI-86-08R	743.25		0.00	10.72	732.53	--
RFI-86-16R	731.76		0.00	16.12	715.64	--
RFI-94-08	727.44		0.00	13.86	713.58	--
RFI-94-11	719.54		0.00	8.81	710.73	--
RW-05 North	NA	13.13	1.44	14.57	NA	--

Notes:

NA = Not Available.

-- = Not Applicable; NAPL not present.

Table 2. 2008 Annual Groundwater Sample Collection Summary, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Sampling Location	Area of Interest (AOI)	Property	Constituents of Concern	Comments
RFI-02-12	02-B	GM	VOCs	
RFI-02-24	02-B	UPF	VOCs	
RFI-09-04R	09-A	GM	VOCs	
RFI-09-53	09-A	GM	VOCs	
MW-23	09-B	DuPont	VOCs	Monitoring well was inaccessible because of storage racks, monitoring well RFI-09-46 was sampled as a replacement location.
RFI-09-14	09-B	DuPont	VOCs	
RFI-09-46	09-B	DuPont	VOCs	Replacement location for MW-23.
RFI-09-48	09-B	City of Flint	VOCs	
RFI-10-24	10-2	City of Flint	VOCs	
RFI-10-29	10-2	City of Flint	VOCs	
RFI-10-33	10-2	Crown Central	VOCs	
RFI-10-35	10-2	City of Flint	VOCs	
RFI-10-36	10-2	City of Flint	VOCs	
RFI-10-28	10-3	Crown Central	VOCs	
20-FP10R	10-4	GM	VOCs	
RFI-10-26	10-4	GM	VOCs	
RFI-12-32	12-A	GM	VOCs	
RFI-16-04R	16-C	GM	PCBs	
RFI-17-02	17-A	GM	VOCs	
RFI-23-01R	23-A	GM	VOCs	
RFI-36-04	36-1	GM	VOCs	The monitoring well protective casing was repaired, which allowed the well to be accessed and sampled in September 2008. Monitoring well RFI-36-02, located directly downgradient was sampled as a replacement well in 2006 and 2007.
RFI-36-19	36-1	City of Flint	VOCs	

Table 2. 2008 Annual Groundwater Sample Collection Summary, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Sampling Location	Area of Interest (AOI)	Property	Constituents of Concern	Comments
RFI-36-37	36-1	CSX	VOCs	
RFI-36-47	36-1	CSX	VOCs	
RFI-36-48	36-1	Consumers Power	VOCs	
RFI-36-55	36-1	City of Flint	VOCs	
RFI-36-56	36-1	City of Flint	VOCs	
RFI-36-14	36-5	GM	VOCs	
20-500R	36-5	GM	VOCs	
43-140	40-D	GM	VOCs	
40-303R	40-D	GM	PCBs	
40-304	40-D	GM	PCBs	
70-165	81-2	GM	Lead	
RFI-81-50	81-2	GM	VOCs	
RFI-81-51	81-3	GM	VOCs	
RFI-17-02D	84-D	GM	VOCs	
RFI-84-06R	84-D	GM	VOCs	
RFI-84-06RD	84-D	GM	VOCs	
RFI-84-09D	84-D	GM	VOCs	
RFI-84-09S	84-D	GM	VOCs	
RFI-84-11S	84-D	GM	VOCs	
RFI-86-16R	86-1	GM	VOCs	
87-FP4	86-1	GM	VOCs	
RFI-94-11	94-B	City of Flint	VOCs	

Table 3. Field Parameter Measurements, CA 750 Groundwater Monitoring Program, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Well ID	Date Sampled	pH (SU)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTUs)
RF-09-14	9/10/2008	6.71	16.52	0.872	1.06	23.4	7.3
RFI-17-02	9/10/2008	6.69	22.23	0.854	0.68	0.854	2.3
RFI-17-02D	9/10/2008	7.18	19.66	1.225	0.87	-225.1	1.4
RFI-84-06R	9/10/2008	8.18	20.94	1.767	0.18	1.2	2.2
RFI-84-06RD	9/10/2008	7.53	21.26	7.591	0.18	16.1	4.5
40-303R	9/11/2008	7.04	17.23	1.020	0.49	44.8	4.0
40-304	9/11/2008	7.50	19.84	0.283	0.39	-158.7	1.6
RFI-02-12	9/11/2008	7.14	21.61	0.727	0.23	-152.5	1.9
RFI-12-32	9/11/2008	7.21	20.23	0.658	0.36	37.6	0.6
RFI-16-04R	9/11/2008	6.90	18.74	0.812	2.58	-147	0.8
RFI-23-01R	9/11/2008	7.12	21.55	0.786	0.60	41.1	1.0
RFI-84-09D	9/11/2008	7.08	20.41	1.761	0.40	-82	1.8
RFI-84-09S	9/11/2008	6.85	21.08	1.334	0.22	-80.5	1.9
RFI-84-11S	9/11/2008	6.81	23.44	0.933	0.11	30.9	0.9
87-FP4	9/12/2008	6.93	19.80	2.267	3.80	114.2	4.8
RFI-02-24	9/12/2008	7.12	20.92	0.400	0.20	-6.4	5.6
RFI-09-04R	9/12/2008	7.00	19.63	0.952	3.44	67.5	0.2
RFI-09-46	9/12/2008	7.09	16.92	2.250	0.34	-98.2	1.4
RFI-09-48	9/12/2008	6.98	17.54	2.289	1.03	-27	4.5
RFI-09-53	9/12/2008	6.99	17.16	0.567	0.98	-112.6	0.5
RFI-94-11	9/12/2008	6.76	18.44	4.225	0.22	-52.2	3.7
20-500R	9/15/2008	6.77	19.17	0.253	1.22	-192	3.0
20-FP10R	9/15/2008	7.38	18.16	2.962	0.33	-105.8	9.6
RFI-10-24	9/15/2008	7.19	14.90	0.767	0.92	66.3	0.8
RFI-10-26	9/15/2008	6.72	17.27	0.241	NA	116.8	4.5
RFI-10-36	9/15/2008	7.17	14.22	0.740	5.03	97.1	1.3
RFI-36-14	9/15/2008	6.89	17.56	4.471	0.95	6.6	2.7
RFI-86-16R	9/15/2008	7.00	16.49	0.408	0.50	-52.6	4.8
43-140	9/16/2008	7.06	17.46	3.600	1.38	27.1	3.3
70-165	9/16/2008	6.63	19.33	0.843	0.24	145.2	2.4
RFI-81-50	9/16/2008	6.89	19.68	0.915	0.12	-16.1	1.8
RFI-81-51	9/16/2008	6.83	18.38	10.380	0.18	0.3	0.9
RFI-10-28	9/17/2008	6.91	17.44	0.788	0.38	63	0.7
RFI-10-29	9/17/2008	6.81	13.97	0.356	0.98	0.7	1.2
RFI-10-33	9/17/2008	6.89	15.26	0.487	3.00	53	0.6
RFI-10-35	9/17/2008	6.85	14.96	0.560	3.42	93.5	0.9
RFI-36-19	9/17/2008	6.83	19.16	1.179	2.72	101	0.3
RFI-36-48	9/17/2008	6.82	14.28	0.680	3.60	67.5	0.4
RFI-36-55	9/17/2008	6.82	15.45	0.469	1.83	29.6	3.5
RFI-36-56	9/17/2008	6.96	17.46	0.764	0.87	88	3.0
RFI-36-04	9/18/2008	7.31	22.34	2.701	0.28	-113.6	0.6
RFI-36-37	9/18/2008	7.02	14.17	1.352	NA	-20	0.4
RFI-36-47	9/18/2008	6.84	14.27	1.989	1.98	-33.4	1.1

Notes:

- °C = Celsius.
- mg/L = milligrams per Liter.
- mV = millivolts.
- NA = Not Available.
- NTUs = Nephelometric Turbidity Units.
- SU = Standard Units.
- mS/cm = milliSiemens per centimeter.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	Flammability and Explosivity Screening Level (FE)	Acute Inhalation Screening Level (GA)	Groundwater Contact Criteria (GCC)	Groundwater Surface Water Interface (GSI)	Industrial & Commercial II, III & IV Drinking Water Criteria (IDW)	Industrial & Commercial II, III & IV Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIA)	Residential & Commercial I Drinking Water Criteria (RDW)	Residential & Commercial I Groundwater Volatilization to Indoor Air Inhalation Criteria (RGVIA)
VOC									
1,1,1-Trichloroethane	mg/L	{ID}	1,300 {S}	1,300 {S}	0.2	0.2 {A}	1,300 {S}	0.2 {A}	660
1,1,2,2-Tetrachloroethane	mg/L	{ID}	{ID}	4.7	0.078 {X}	0.035	77	0.0085	12
1,1,2-Trichloroethane	mg/L	{NA}	{ID}	21	0.33 {X}	0.005 {A}	110	0.005 {A}	17
1,1-Dichloroethane	mg/L	380	{ID}	2,400	0.74	2.5	2,300	0.88	1,000
1,1-Dichloroethene	mg/L	97 {I}	140 {I}	11 {I}	0.065 {I,X}	0.007 {I,A}	1.3 {I}	0.007 {I,A}	0.2 {I}
1,2,4-Trichlorobenzene	mg/L	{NA}	300 {S}	19	0.03	0.07 {A}	300 {S}	0.07 {A}	300 {S}
1,2,4-Trimethylbenzene	mg/L	56 {I,S}	{ID}	56 {I,S}	0.017 {I}	2.9 {I,E}	56 {I,S}	1 {I,E}	56 {I,S}
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	{NA}	{ID}	0.39	{NA}	0.0002 {A}	1.2 {S}	0.0002 {A}	1.2 {S}
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	{ID}	{ID}	0.025	0.0002 {X}	0.00005 {A}	15	0.00005 {A}	2.4
1,2-Dichlorobenzene	mg/L	{NA}	160 {S}	160 {S}	0.016	0.6 {A}	160 {S}	0.6 {A}	160 {S}
1,2-Dichloroethane	mg/L	2,500 {I}	{ID}	19 {I}	0.36 {I,X}	0.005 {I,A}	59 {I}	0.005 {I,A}	9.6 {I}
1,2-Dichloropropane	mg/L	550 {I}	2,800 {I,S}	16 {I}	0.29 {I,X}	0.005 {I,A}	36 {I}	0.005 {I,A}	16 {I}
1,3,5-Trimethylbenzene	mg/L	{ID}	{ID}	61 {I,S}	0.045 {I}	2.9 {I,E}	61 {I,S}	1 {I,E}	61 {I,S}
1,3-Dichlorobenzene	mg/L	{ID}	{ID}	2	0.038	0.019	{ID}	0.0066	{ID}
1,4-Dichlorobenzene	mg/L	{NA}	{ID}	6.4	0.013	0.075 {A}	74 {S}	0.075 {A}	16
2-Butanone (Methyl Ethyl Ketone)	mg/L	{ID}	240,000 {I,S}	240,000 {I,S}	2.2 {I}	38 {I}	240,000 {I,S}	13 {I}	240,000 {I,S}
2-Hexanone	mg/L	{NA}	{ID}	5,200	{NA}	2.9	8,700	1	4,200
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	{ID}	20,000 {I,S}	13,000 {I}	{ID}	5.2 {I}	20,000 {S}	1.8 {I}	20,000 {I,S}
Acetone	mg/L	15,000 {I}	1,000,000 {I,D}	31,000 {I}	1.7 {I}	2.1 {I}	1,000,000 {I,D,S}	0.73 {I}	1,000,000 {I,D,S}
Benzene	mg/L	68 {I}	67 {I}	11 {I}	0.2 {I,X}	0.005 {I,A}	35 {I}	0.005 {I,A}	5.6 {I}
Bromodichloromethane	mg/L	{ID}	{ID}	14	{ID}	0.08 {A,W}	37	0.08 {AW}	4.8
Bromoform	mg/L	{ID}	{ID}	140	{ID}	0.08 {A,W}	3,100 {S}	0.08 {AW}	470
Bromomethane (Methyl Bromide)	mg/L	{ID}	{ID}	70	0.035	0.029	9	0.01	4
Carbon disulfide	mg/L	13 {I,R}	{ID}	1,200 {I,R,S}	{ID}	2.3 {I,R}	550 {I,R}	0.8 {I,R}	250 {I,R}
Carbon tetrachloride	mg/L	{ID}	96	4.6	0.045 {X}	0.005 {A}	2.4	0.005 {A}	0.37
Chlorobenzene	mg/L	160 {I}	{ID}	86 {I}	0.047 {I}	0.1 {I,A}	470 {I,S}	0.1 {I,A}	210 {I}
Chloroethane	mg/L	110	{ID}	440	{ID}	1.7	5,700 {S}	0.43	5,700 {S}
Chloroform (Trichloromethane)	mg/L	{ID}	{ID}	150	0.17 {X}	0.08 {A,W}	180	0.08 {A,W}	28
Chloromethane (Methyl Chloride)	mg/L	36 {I}	210 {I}	490 {I}	{ID}	1.1 {I}	45 {I}	0.26 {I}	8.6 {I}
cis-1,2-Dichloroethene	mg/L	530	{ID}	200	0.62	0.07 {A}	210	0.07 {A}	93
cis-1,3-Dichloropropene	mg/L	--	--	--	--	--	--	--	--
Cyclohexane	mg/L	--	--	--	--	--	--	--	--
Dibromochloromethane	mg/L	{ID}	{ID}	18	{ID}	0.08 {A,W}	110	0.08 {A,W}	14
Dichlorodifluoromethane (CFC-12)	mg/L	{ID}	{ID}	300 {S}	{ID}	4.8	300 {S}	1.7	220
Ethylbenzene	mg/L	43 {I}	170 {I,S}	170 {I,S}	0.018 {I}	0.7 {I,E}	170 {I,S}	0.7 {I,E}	110 {I}
Isopropylbenzene	mg/L	29	{ID}	56 {S}	{ID}	2.3	56 {S}	0.8	56 {S}
m&p-Xylene	mg/L	--	--	--	--	--	--	--	--

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	Flammability and Explosivity Screening Level (FE)	Acute Inhalation Screening Level (GAI)	Groundwater Contact Criteria (GCC)	Groundwater Surface Water Interface (GSI)	Industrial & Commercial II, III & IV Drinking Water Criteria (IDW)	Industrial & Commercial II, III & IV Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIA)	Residential & Commercial I Drinking Water Criteria (RDW)	Residential & Commercial I Groundwater Volatilization to Indoor Air Inhalation Criteria (RGVIA)
VOC (Cont.)									
Methyl acetate	mg/L	--	--	--	--	--	--	--	--
Methyl cyclohexane	mg/L	--	--	--	--	--	--	--	--
Methyl Tert Butyl Ether	mg/L	{ID}	{ID}	610	0.73 {X}	0.69 {E}	47,000 {S}	0.24 {E}	47,000 {S}
Methylene chloride	mg/L	{ID}	{ID}	220	0.94 {X}	0.005 {A}	1,400	0.005 {A}	220
o-Xylene	mg/L	--	--	--	--	--	--	--	--
Styrene	mg/L	140	310 {S}	9.7	0.08	0.1 {A}	310 {S}	0.1 {A}	170
Tetrachloroethene	mg/L	{ID}	200 {S}	12	0.045 {X}	0.005 {A}	170	0.005 {A}	25
Toluene	mg/L	61 {I}	{ID}	530 {I,S}	0.14 {I}	1 {I,E}	530 {I,S}	1 {I,E}	530 {I,S}
trans-1,2-Dichloroethene	mg/L	230	{ID}	220	1.5	0.1 {A}	200	0.1 {A}	85
trans-1,3-Dichloropropene	mg/L	--	--	--	--	--	--	--	--
Trichloroethene	mg/L	{ID}	1,100 {S}	22	0.2 {X}	0.005 {A}	97	0.005 {A}	15
Trichlorofluoromethane (CFC-11)	mg/L	{ID}	1,100 {S}	1,100 {S}	{NA}	7.3	1,100 {S}	2.6	1,100 {S}
Trifluorotrichloroethane (Freon 113)	mg/L	{ID}	170 {S}	170 {S}	0.032	170 {S}	170 {S}	170 {S}	170 {S}
Vinyl chloride	mg/L	33	{ID}	1	0.015	0.002 {A}	13	0.002 {A}	1.1
Xylenes (total)	mg/L	70 {I}	190 {I,S}	190 {I,S}	0.035 {I}	10 {I,E}	190 {I,S}	10 {I,E}	190 {I,S}
PCB									
Aroclor-1016 (PCB-1016)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/L	--	--	--	--	--	--	--	--
Total PCBs	mg/L	{ID}	{ID}	0.0033 {J,T,AA}	0.0002 {J,T,M}	0.0005 {J,T,A}	0.045 {J,T,S}	0.0005 {J,T,A}	0.045 {J,T,S}
PCB-Dissolved									
Aroclor-1016 (PCB-1016)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/L	--	--	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/L	--	--	--	--	--	--	--	--
Total PCBs	mg/L	{ID}	{ID}	0.0033 {J,T,AA}	0.0002 {J,T,M}	0.0005 {J,T,A}	0.045 {J,T,S}	0.0005 {J,T,A}	0.045 {J,T,S}
Inorganic									
Lead	mg/L	{ID}	{ID}	{ID}	0.0309 {B,G,X}	0.004 {B,L}	{NLV}	0.004 {B,L}	{NLV}
Inorganic-Dissolved									
Lead	mg/L	{ID}	{ID}	{ID}	0.0309 {B,G,X}	0.004 {B,L}	{NLV}	0.004 {B,L}	{NLV}

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	20-500R 09/15/08	20-FP10R 09/15/08	40-303R 09/11/08	40-304 09/11/08	43-140 09/16/08
VOC						
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,1,2,2-Tetrachloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,1,2-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,2,4-Trichlorobenzene	mg/L	ND(0.0020)	ND(0.0020)	NA	NA	ND(0.0020) [ND(0.0020)]
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,2-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
2-Butanone (Methyl Ethyl Ketone)	mg/L	ND(0.020)	ND(0.020)	NA	NA	ND(0.020) [ND(0.020)]
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	NA	NA	ND(0.050 J) [ND(0.050 J)]
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ND(0.010)	ND(0.010)	NA	NA	ND(0.010) [ND(0.010)]
Acetone	mg/L	ND(0.020)	ND(0.020)	NA	NA	ND(0.020) [ND(0.020)]
Benzene	mg/L	0.00040 J	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Bromodichloromethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Bromoform	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Bromomethane (Methyl Bromide)	mg/L	ND(0.0020)	ND(0.0020)	NA	NA	ND(0.0020 J) [ND(0.0020 J)]
Carbon disulfide	mg/L	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050) [ND(0.0050)]
Carbon tetrachloride	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010 J) [ND(0.0010 J)]
Chloroform (Trichloromethane)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Chloromethane (Methyl Chloride)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	0.0020	NA	NA	0.00070 J [0.00060 J]
cis-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Cyclohexane	mg/L	ND(0.0010 J)	ND(0.0010 J)	NA	NA	ND(0.0010) [ND(0.0010)]
Dibromochloromethane	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Dichlorodifluoromethane (CFC-12)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Ethylbenzene	mg/L	0.0040	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Isopropylbenzene	mg/L	0.0080	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
m&p-Xylene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	20-500R 09/15/08	20-FP10R 09/15/08	40-303R 09/11/08	40-304 09/11/08	43-140 09/16/08
VOC (Cont.)						
Methyl acetate	mg/L	ND(0.010)	ND(0.010)	NA	NA	ND(0.010) [ND(0.010)]
Methyl cyclohexane	mg/L	0.0050 J	ND(0.020)	NA	NA	ND(0.020) [ND(0.020)]
Methyl Tert Butyl Ether	mg/L	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050) [ND(0.0050)]
Methylene chloride	mg/L	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050) [ND(0.0050)]
o-Xylene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Styrene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Toluene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
trans-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
trans-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Trichloroethene	mg/L	ND(0.0010)	0.0070 (IDW,RDW)	NA	NA	0.093 (IDW,RDW) [0.089 (IDW,RDW)]
Trichlorofluoromethane (CFC-11)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
Trifluorotrichloroethane (Freon 113)	mg/L	ND(0.030)	ND(0.030)	NA	NA	ND(0.030) [ND(0.030)]
Vinyl chloride	mg/L	ND(0.0010)	0.00060 J	NA	NA	ND(0.0010) [ND(0.0010)]
Xylenes (total)	mg/L	ND(0.0010)	ND(0.0010)	NA	NA	ND(0.0010) [ND(0.0010)]
PCB						
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
Total PCBs	mg/L	NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NA
PCB-Dissolved						
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA
Inorganic						
Lead	mg/L	NA	NA	NA	NA	NA
Inorganic-Dissolved						
Lead	mg/L	NA	NA	NA	NA	NA

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	70-165 09/16/08	87-FP4 09/12/08	RFI-02-12 09/11/08	RFI-02-24 09/12/08	RFI-09-04R 09/12/08	RFI-09-14 09/10/08	RFI-09-46 09/12/08
VOC								
1,1,1-Trichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trichlorobenzene	mg/L	NA	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Butanone (Methyl Ethyl Ketone)	mg/L	NA	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Hexanone	mg/L	NA	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	NA	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	mg/L	NA	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.050)
Benzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.076 (IDW,RDW)
Bromodichloromethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane (Methyl Bromide)	mg/L	NA	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon disulfide	mg/L	NA	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon tetrachloride	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform (Trichloromethane)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane (Methyl Chloride)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0040 J)
cis-1,2-Dichloroethene	mg/L	NA	0.0020	ND(0.0010)	0.0030	0.0010	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Cyclohexane	mg/L	NA	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	0.058 J
Dibromochloromethane	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane (CFC-12)	mg/L	NA	ND(0.0010)	ND(0.0010 J)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)	ND(0.0010 J)
Ethylbenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00050 J
Isopropylbenzene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.010
m&p-Xylene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.010

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	70-165 09/16/08	87-FP4 09/12/08	RFI-02-12 09/11/08	RFI-02-24 09/12/08	RFI-09-04R 09/12/08	RFI-09-14 09/10/08	RFI-09-46 09/12/08
VOC (Cont.)								
Methyl acetate	mg/L	NA	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl cyclohexane	mg/L	NA	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	0.040
Methyl Tert Butyl Ether	mg/L	NA	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene chloride	mg/L	NA	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
o-Xylene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0030
Styrene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0050
trans-1,2-Dichloroethene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	NA	0.0050	ND(0.0010)	0.00020 J	0.0090 (IDW,RDW)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane (CFC-11)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0030	ND(0.0010)	ND(0.0010)
Trifluorotrchloroethane (Freon 113)	mg/L	NA	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Vinyl chloride	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)	mg/L	NA	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.013
PCB								
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved								
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganic								
Lead	mg/L	0.090 (IDW,RDW) [0.092 (IDW,RDW)]	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved								
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-09-48 09/12/08	RFI-09-53 09/12/08	RFI-10-24 09/15/08	RFI-10-26 09/15/08	RFI-10-28 09/17/08	RFI-10-29 09/17/08	RFI-10-33 09/17/08	RFI-10-35 09/17/08	RFI-10-36 09/15/08
VOC										
1,1,1-Trichloroethane	mg/L	ND(0.0010)	0.14	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.025	0.0060	ND(0.0010)
1,1,2,2-Tetrachloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	0.062	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.021	0.045	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0040	0.0040	ND(0.0010)
1,2,4-Trichlorobenzene	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Butanone (Methyl Ethyl Ketone)	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Benzene	mg/L	ND(0.0010)	0.00040 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane (Methyl Bromide)	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020)
Carbon disulfide	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon tetrachloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	0.0020	0.018	ND(0.0010)	ND(0.0010 J)	ND(0.0010 J)	0.0010 J	ND(0.0010 J)	0.0040
Chloroform (Trichloromethane)	mg/L	ND(0.0010)	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane (Methyl Chloride)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	0.068	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00020 J	ND(0.0010)
cis-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Cyclohexane	mg/L	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)
Dibromochloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane (CFC-12)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isopropylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
m&p-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-09-48 09/12/08	RFI-09-53 09/12/08	RFI-10-24 09/15/08	RFI-10-26 09/15/08	RFI-10-28 09/17/08	RFI-10-29 09/17/08	RFI-10-33 09/17/08	RFI-10-35 09/17/08	RFI-10-36 09/15/08
VOC (Cont.)										
Methyl acetate	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl cyclohexane	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Methyl Tert Butyl Ether	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene chloride	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
o-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	mg/L	ND(0.0010)	0.00040 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	ND(0.0010)	0.10 (IDW,RDW)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane (CFC-11)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trifluorotrchloroethane (Freon 113)	mg/L	ND(0.030)	0.00030 J	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Vinyl chloride	mg/L	0.00060 J	0.023 (IDW,RDW)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCB										
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved										
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic										
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved										
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-12-32 09/11/08	RFI-16-04R 09/11/08	RFI-17-02 09/10/08	RFI-17-02D 09/10/08	RFI-23-01R 09/11/08	RFI-36-04 09/18/08	RFI-36-14 09/15/08
VOC								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	NA	0.00080 J	0.00090 J [0.0010 J]	ND(0.0010)	0.0020	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trichlorobenzene	mg/L	ND(0.0020)	NA	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Butanone (Methyl Ethyl Ketone)	mg/L	ND(0.020)	NA	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)
2-Hexanone	mg/L	ND(0.050 J)	NA	ND(0.050 J)	ND(0.050 J) [ND(0.050 J)]	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ND(0.010)	NA	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	mg/L	ND(0.020)	NA	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)
Benzene	mg/L	ND(0.0010)	NA	ND(0.0010)	0.072 (IDW,RDW) [0.071 (IDW,RDW)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane (Methyl Bromide)	mg/L	ND(0.0020)	NA	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020 J)	ND(0.0020)
Carbon disulfide	mg/L	ND(0.0050)	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon tetrachloride	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010 J)	ND(0.0010)
Chloroform (Trichloromethane)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane (Methyl Chloride)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010 J) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	0.0040 [0.0040]	0.0010	0.0010	ND(0.0010)
cis-1,3-Dichloropropene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Cyclohexane	mg/L	ND(0.0010 J)	NA	ND(0.0010 J)	ND(0.0010 J) [ND(0.0010 J)]	ND(0.0010 J)	ND(0.0010)	ND(0.0010 J)
Dibromochloromethane	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane (CFC-12)	mg/L	ND(0.0010 J)	NA	ND(0.0010 J)	ND(0.0010 J) [ND(0.0010 J)]	ND(0.0010 J)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isopropylbenzene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
m&p-Xylene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)

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Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-12-32 09/11/08	RFI-16-04R 09/11/08	RFI-17-02 09/10/08	RFI-17-02D 09/10/08	RFI-23-01R 09/11/08	RFI-36-04 09/18/08	RFI-36-14 09/15/08
VOC (Cont.)								
Methyl acetate	mg/L	ND(0.010)	NA	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Methyl cyclohexane	mg/L	ND(0.020)	NA	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	ND(0.020)
Methyl Tert Butyl Ether	mg/L	ND(0.0050)	NA	0.00030 J	0.00050 J [0.00060 J]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene chloride	mg/L	ND(0.0050)	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
o-Xylene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Styrene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0030	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane (CFC-11)	mg/L	0.0020	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trifluorotrchloroethane (Freon 113)	mg/L	ND(0.030)	NA	ND(0.030)	ND(0.030) [ND(0.030)]	ND(0.030)	ND(0.030)	ND(0.030)
Vinyl chloride	mg/L	ND(0.0010)	NA	ND(0.0010)	0.0010 [0.0020]	ND(0.0010)	0.0030 (IDW,RDW)	ND(0.0010)
Xylenes (total)	mg/L	ND(0.0010)	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCB								
Aroclor-1016 (PCB-1016)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	ND(0.00010)	NA	NA	NA	NA	NA
PCB-Dissolved								
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganic								
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved								
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA

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Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-36-19 09/17/08	RFI-36-37 09/18/08	RFI-36-47 09/18/08	RFI-36-48 09/17/08	RFI-36-55 09/17/08	RFI-36-56 09/17/08	RFI-81-50 09/16/08	RFI-81-51 09/16/08
VOC									
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	0.12	0.00090 J	ND(0.0010)	0.00020 J	ND(0.0010)	0.0020
1,1,2,2-Tetrachloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	0.00030 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	0.11	0.027	0.045	0.0080	ND(0.0010)	0.0010
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.031 (IDW,RDW)	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trichlorobenzene	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	mg/L	ND(0.0010)	0.0010	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Butanone (Methyl Ethyl Ketone)	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020 J)
Benzene	mg/L	ND(0.0010)	0.015 (IDW,RDW)	0.00030 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane (Methyl Bromide)	mg/L	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)	ND(0.0020 J)
Carbon disulfide	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon tetrachloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010 J)	ND(0.0010 J)	0.026 J	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)
Chloroform (Trichloromethane)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane (Methyl Chloride)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.0050	0.00020 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0030
cis-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Cyclohexane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)
Dibromochloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane (CFC-12)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isopropylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00060 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
m&p-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-36-19 09/17/08	RFI-36-37 09/18/08	RFI-36-47 09/18/08	RFI-36-48 09/17/08	RFI-36-55 09/17/08	RFI-36-56 09/17/08	RFI-81-50 09/16/08	RFI-81-51 09/16/08
VOC (Cont.)									
Methyl acetate	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl cyclohexane	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Methyl Tert Butyl Ether	mg/L	ND(0.0050)	ND(0.0050)	0.00040 J	ND(0.0050)	0.00030 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene chloride	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
o-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010 J)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0050	ND(0.0010)	ND(0.0010)	0.0060 (IDW,RDW)
Toluene	mg/L	0.00010 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00010 J	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.00040 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00070 J	ND(0.0010)	0.070 (IDW,RDW)
Trichlorofluoromethane (CFC-11)	mg/L	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trifluorotrchloroethane (Freon 113)	mg/L	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Vinyl chloride	mg/L	ND(0.0010)	ND(0.0010)	0.0030 (IDW,RDW)	0.0030 (IDW,RDW)	0.00020 J	ND(0.0010)	ND(0.0010)	0.00030 J
Xylenes (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCB									
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved									
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic									
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved									
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-84-06R 09/10/08	RFI-84-06RD 09/10/08	RFI-84-09D 09/11/08	RFI-84-09S 09/11/08	RFI-84-11S 09/11/08	RFI-86-16R 09/15/08	RFI-94-11 09/12/08
VOC								
1,1,1-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	mg/L	0.00080 J	ND(0.0010)	ND(0.0010)	0.00030 J	0.00030 J	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,4-Trichlorobenzene	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dichlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Butanone (Methyl Ethyl Ketone)	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Hexanone	mg/L	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)	ND(0.050 J)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	mg/L	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Benzene	mg/L	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane (Methyl Bromide)	mg/L	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon disulfide	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon tetrachloride	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform (Trichloromethane)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane (Methyl Chloride)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	0.0030	0.00060 J	0.00080 J	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Cyclohexane	mg/L	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)
Dibromochloromethane	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane (CFC-12)	mg/L	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010 J)	ND(0.0010)	ND(0.0010)
Ethylbenzene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isopropylbenzene	mg/L	0.00030 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
m&p-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

Location ID: Date Collected:	Units	RFI-84-06R 09/10/08	RFI-84-06RD 09/10/08	RFI-84-09D 09/11/08	RFI-84-09S 09/11/08	RFI-84-11S 09/11/08	RFI-86-16R 09/15/08	RFI-94-11 09/12/08
VOC (Cont.)								
Methyl acetate	mg/L	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl cyclohexane	mg/L	0.00020 J	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Methyl Tert Butyl Ether	mg/L	ND(0.0050)	ND(0.0050)	0.0010 J	0.00050 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene chloride	mg/L	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
o-Xylene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Styrene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00040 J	ND(0.0010)	ND(0.0010)
Toluene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00020 J	0.0020	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane (CFC-11)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trifluorotrchloroethane (Freon 113)	mg/L	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
Vinyl chloride	mg/L	ND(0.0010)	ND(0.0010)	0.0020	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)	mg/L	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCB								
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved								
Aroclor-1016 (PCB-1016)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221 (PCB-1221)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232 (PCB-1232)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242 (PCB-1242)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248 (PCB-1248)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254 (PCB-1254)	mg/L	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260 (PCB-1260)	mg/L	NA	NA	NA	NA	NA	NA	NA
Total PCBs	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganic								
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved								
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 15.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

General Notes:

Samples were collected by ARCADIS of New York, Inc. (ARCADIS BBL, formerly known as Blasland, Bouck & Lee, Inc.), and submitted to Merit Laboratories, for analysis of Project Analyte List (PAL) volatile organic compounds.

Duplicate results are presented in brackets.

Groundwater concentrations are presented in milligrams per liter (mg/L).

Total Xylenes reported as the sum of m&p-Xylene and o-Xylene.

Shaded cells represent constituent concentrations that exceed at least one of the listed Michigan Part 201 Criteria:

For Groundwater:

RDW = Residential Drinking Water criteria, updated January 2006.

IDW = Industrial Drinking Water criteria, updated January 2006.

GSI = Groundwater/Surface Water Interaction criteria, updated January 2006.

GCC = Groundwater Contact criteria, updated January 2006.

GAI = Groundwater Acute Inhalation Screening Level, updated January 2006.

RGVIA = Residential & Commercial I Groundwater Volatilization to Indoor Air Inhalation criteria, updated January 2006.

IGVIA = Industrial & Commercial II, III, & IV Groundwater Volatilization to Indoor Air Inhalation criteria, updated January 2006.

FE = Flammability and Explosivity Screening Level, updated January 2006.

Data Qualifiers:

U = Not detected. The value represents the associated detection limit.

NS = Not analyzed for this constituent.

D = Concentration is based on a diluted sample analysis.

J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.

E = Measured concentration exceeded the linear range of the instrument.

A diluted sample analysis was run; however, the undiluted result was chosen as representative of the sample concentration.

R = Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data shall not be used for any qualitative or quantitative purposes.

MDEQ Criteria Qualifiers:

ID = *Inadequate data* to develop criterion.

NA = Criterion or value is *not available* or, as is the case for Csat, *not applicable*.

{A} = Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of the Safe Drinking Water Act, Act No. 399 of the Public Acts of 1976.

{D} = Calculated criterion exceeds 100%, hence it is reduced to 100% (i.e., 1.0E+9 ppb). Evaluation of free phase contaminant, environmental impacts, adverse aesthetics and acute or local toxicity is required.

{E} = Criterion is the aesthetic drinking water value, as required by Sec. 20120(1)(5). A Notice of Aesthetic Impact may be employed as an institutional control mechanism where groundwater concentrations exceed the aesthetic DWC, but do not exceed the applicable health-based DWC. Health-based DWC are provided in the table below.

Hazardous Substance	CAS #	Residential Health-Based DWC	Industrial-Commercial Health-Based DWC
Aluminum	7429905	300	4,100
Copper	7440508	1,400	4,000
Diethyl ether	60297	3,700	10,000
Ethylbenzene	100414	700	700
Iron	7439896	2,000	5,600
Manganese	7439965	860	2,500
Methyl-tert-butyl ether (MTBE)	1634044	240	690
Toluene	108883	1,000	1,000
1,2,4-Trimethylbenzene	95636	1,000	2,900
1,3,5-Trimethylbenzene	108678	1,000	2,900
Xylenes	1330207	10,000	10,000

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

MDEQ Criteria Qualifiers (Cont.):

{G} = The GSI criterion shown is not protective for surface water that is used as a drinking water source. For groundwater discharges to the Great Lakes and their connecting waters or discharges in close proximity to water supply intake(s) in inland surface waters, the generic GSI criterion is the Surface Water Human Drinking Water Value (HDV) listed in the table below except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criteria GSI criterion is the lesser of the HDV, the WV, and the calculated FCV (see formula in footnote {G}). Soil protection criteria based on the HDV are listed below except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk are the greater of the 20XGSI and GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Hazardous Substance	FCV Formula ug/L	FCV Conversion Factor (CF)	WV ug/L	HNDV ug/L
Barium ^x	EXP(1.0629*(LnH)+1.1869)	NA	NA	1.6E+5
Beryllium	EXP(2.5279*(LnH)-10.7689)	NA	NA	1,200
Cadmium ^x	(EXP(0.7852*(LnH)-2.715))*CF	1.101672-((LnH)*0.04184)	NA	130
Chromium (III) ^x	(EXP(0.819*(LnH)+0.6848))*CF	0.86	NA	9,400
Copper	(EXP(0.8545*(LnH)-1.702))*CF	0.96	NA	64,000
Lead ^x	(EXP(1.273*(LnH)-3.296))*CF	1.46203-((LnH)*0.14571)	NA	190
Manganese	EXP(0.8784*(LnH)+2.226)	NA	NA	59,000
Nickel	(EXP(0.846*(LnH)+0.0584))*CF	0.997	NA	2.1E+5
Pentachlorophenol ^x	EXP(1.005*(pH)-5.134)	NA	NA	2.8
Zinc	(EXP(0.8473*(LnH)+0.884))*CF	0.986	NA	22,000

Where,

EXP(x) = The base of the natural logarithm raised to power x (ex).

LnH = The natural logarithm of water hardness in mg CaCO₃/L.

SS = Total suspended solids in mg/L.

* = The multiplication symbol.

^x = The GSI criterion developed here may not be protective for surface water that is used as a drinking water source. Refer to footnote {X} for further guidance.

A spreadsheet that may be used to calculate GSI and GSI PC for {G} footnoted hazardous substances is available at <http://www.deq.state.mi.us/erd>.

{I} = Hazardous substance may exhibit the characteristic of ignitability as defined in 40 CFR 261.21.

{J} = Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.

{M} = Calculated criterion is below the analytical Target Detection Limit (TDL), therefore, the criterion defaults to the TDL.

{R} = Hazardous substance may exhibit the characteristic of reactivity as defined in 40 CFR 261.23.

{S} = Criterion defaults to the chemical-specific water solubility limit.

{W} = Concentrations of trihalomethanes in groundwater must be added together to determine compliance with the State of Michigan Drinking Water Standard of 100 ug/L. Concentrations of trihalomethanes in soil must be added together to determine compliance with the DWPC of 2,000 ug/kg.

{X} = The GSI criterion shown is not protective for surface water that is used as a drinking water source.

For groundwater discharges to the Great Lakes and their connecting waters or discharges in close proximity to water supply intake(s) in inland surface waters, the generic GSI criterion is the Surface Water Human Drinking Water Value (HDV) listed in the table below except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion is the lesser of the HDV, the WV and the calculated FCV (see formulas in footnote {G}). Soil protection criteria based on the HDV are listed below except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk are the greater of the 20 X GSI and GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Table 4. Groundwater Analytical Data, General Motors Corporation, NAO Flint Operations Site - Flint, Michigan

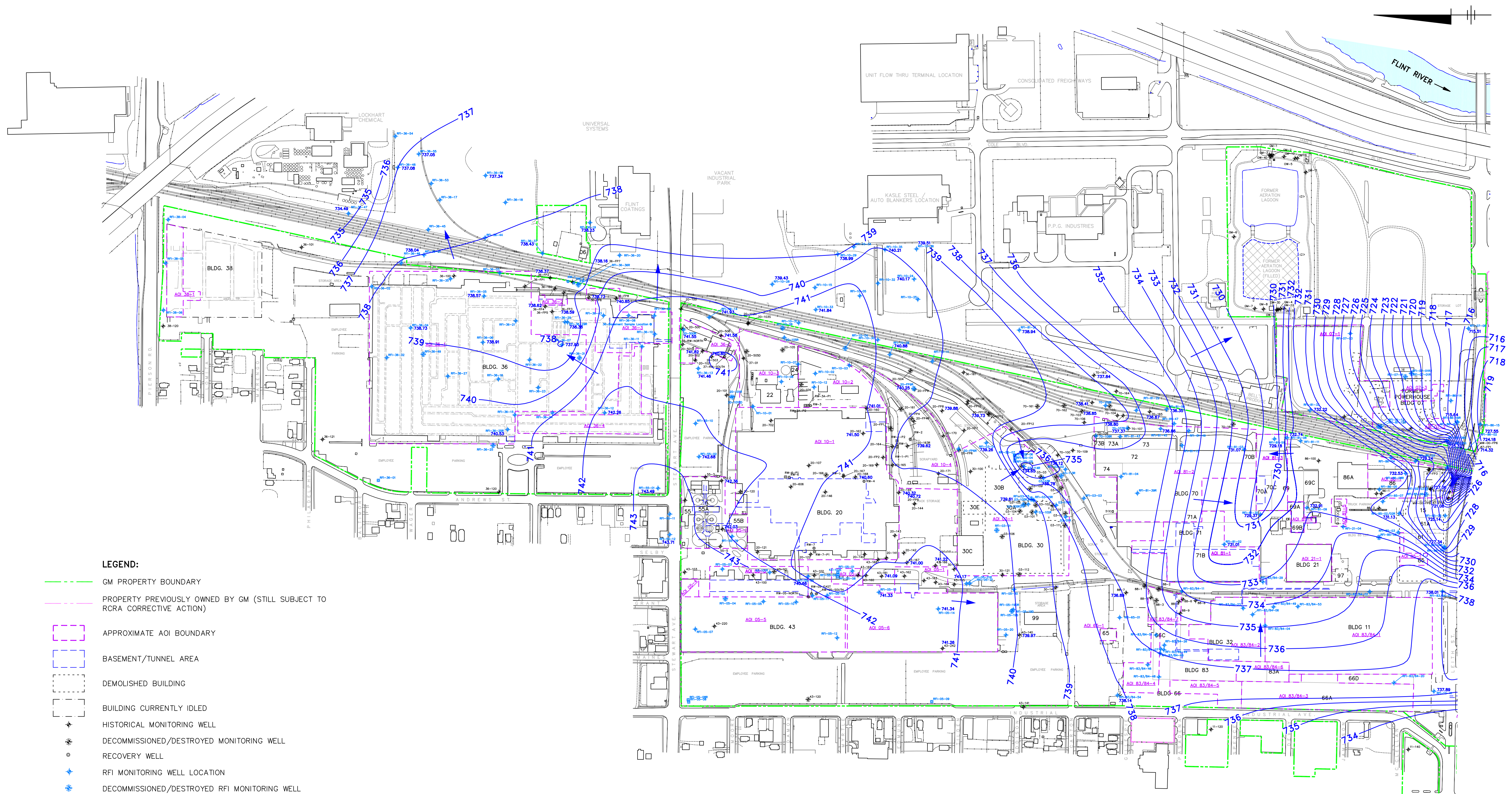
Hazardous Substance	Chemical Abstract Service Number	Surface Water Human Drinking Water Values (HDV) (ug/L)	Soil GSI Protection Criteria for HDV (ug/Kg)
Acrylonitrile	107131	2.0 (M); 0.87	100 (M); 17
Alachlor	15972608	3.5	91
Antimony	7440360	2	1,400
Arsenic	7440382	50	23,000
Atrazine	1912249	4.3	86
Barium	7440393	1,900*	*
Benzene	71432	12	240
bis(2-Chloroethyl)ether	111444	1 (M); 0.79	100 (M); 20
Bromate	15541454	10 (M); 0.5	200 (M); 10
Butyl benzyl phthalate	85687	6.9	13,000
Cadmium	7440439	2.5*	*
Carbon tetrachloride	56235	5.6	110
Chloride	16887006	50,000	1.00E+06
Chloroform	67663	77	1,500
Chromium (III)	16065831	120*	*
Cyanazine	21725462	2 (M); 0.93	200 (M); 40
3,3'-Dichlorobenzidine	91941	0.3 (M); 0.14	2,000 (M); 7.7
1,2-Dichloroethane	107062	6	120
1,1-Dichloroethylene	75354	24	480
1,2-Dichloropropane	78875	9.1	180
N,N-Dimethylacetamide	127195	700	14,000
1,4-Dioxane	123911	34	680
Ethylene dibromide	106934	0.05 (M); 0.006	20 (M); 1.0
Ethylene glycol	107211	56,000	1.10E+06
Heptachlor	76448	0.01 (M); 0.0017	NLL
beta-Hexachlorocyclohexane	319857	0.024	20 (M)
Hexachloroethane	67721	5.3	310
Isophorone	78591	310	6,200
Isopropyl alcohol	67630	28,000	5.60E+05
Lead	7439921	14*	*
Manganese	7439965	3600	72,000
Methyl-tert-butyl ether (MTBE)	1634044	100	2,000
Methylene chloride	75092	47	940
Mirex	2385855	0.02 (M); 1.6E-5	NLL
Molybdenum	7439987	120	2,400
Nitrobenzene	98953	4.7	330 (M); 94
Pentachlorophenol	87865	1.8*	*
1,2,4,5-Tetrachlorobenzene	95943	2.8	3,300
1,1,1,2-Tetrachloroethane	630206	19	380
1,1,2,2-Tetrachloroethane	79345	3.2	64
Tetrachloroethylene	127184	11	220
Tetrahydrofuran	109999	350	7,000
Thallium	7440280	2.0 (M); 1.2	2,300
1,1,2-Trichloroethane	79005	12	240
Trichloroethylene	79016	29	580

ARCADIS

Figures

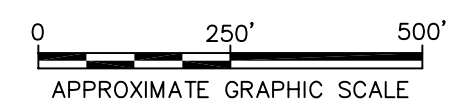
CITY: SYRACUSE, NY DIV: GROUP: ENV: CAD-141 DB: GMS: KFS: RCA LD: GMS: AM: PD: TM: TR: LYR: ON=OFF=REF* GRAYX01|SHD-BUILDING |HIST_SB_*GRAYX03|NAPL_OBS_*RFL|SS_PIEZ_*ILNAPL|SHD_GRAYX01|PROPERTY_GRAYX03|NAPL_EVLD
 G:\ENVCAD\SYRACUSE\ACT\B064410\00001\05000\DWG\CA750-08\64410\003.DWG LAYOUT: 1 SAVER: 12/10/2008 1:23 PM ACADVER: 17.03 (LMS TECH) PAGES: 17 OF 17 PLOTSTYLE: PLT\FULL.CTB PLOTTED: 1/27/2009 4:56 PM BY: STOWELL, GARY

PROJECT NAME: 64410X02
 64410X01
 64410X3A
 64410X00



- LEGEND:**
- GM PROPERTY BOUNDARY
 - PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
 - APPROXIMATE AOI BOUNDARY
 - BASEMENT/TUNNEL AREA
 - DEMOLISHED BUILDING
 - BUILDING CURRENTLY IDLED
 - + HISTORICAL MONITORING WELL
 - ⊕ DECOMMISSIONED/DESTROYED MONITORING WELL
 - RECOVERY WELL
 - + RFI MONITORING WELL LOCATION
 - ⊕ DECOMMISSIONED/DESTROYED RFI MONITORING WELL
 - RFI PIEZOMETER
 - 742.03 GROUNDWATER ELEVATION (IN FEET)
 - 726 GROUNDWATER ELEVATION CONTOUR (IN FEET)
 - GENERALIZED FLOW DIRECTION

- NOTES:**
1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
 2. ALL LOCATIONS ARE APPROXIMATE.



JANUARY 2009

GENERAL MOTORS CORPORATION
 NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
CA 750 REPORT
GROUNDWATER MONITORING DATA

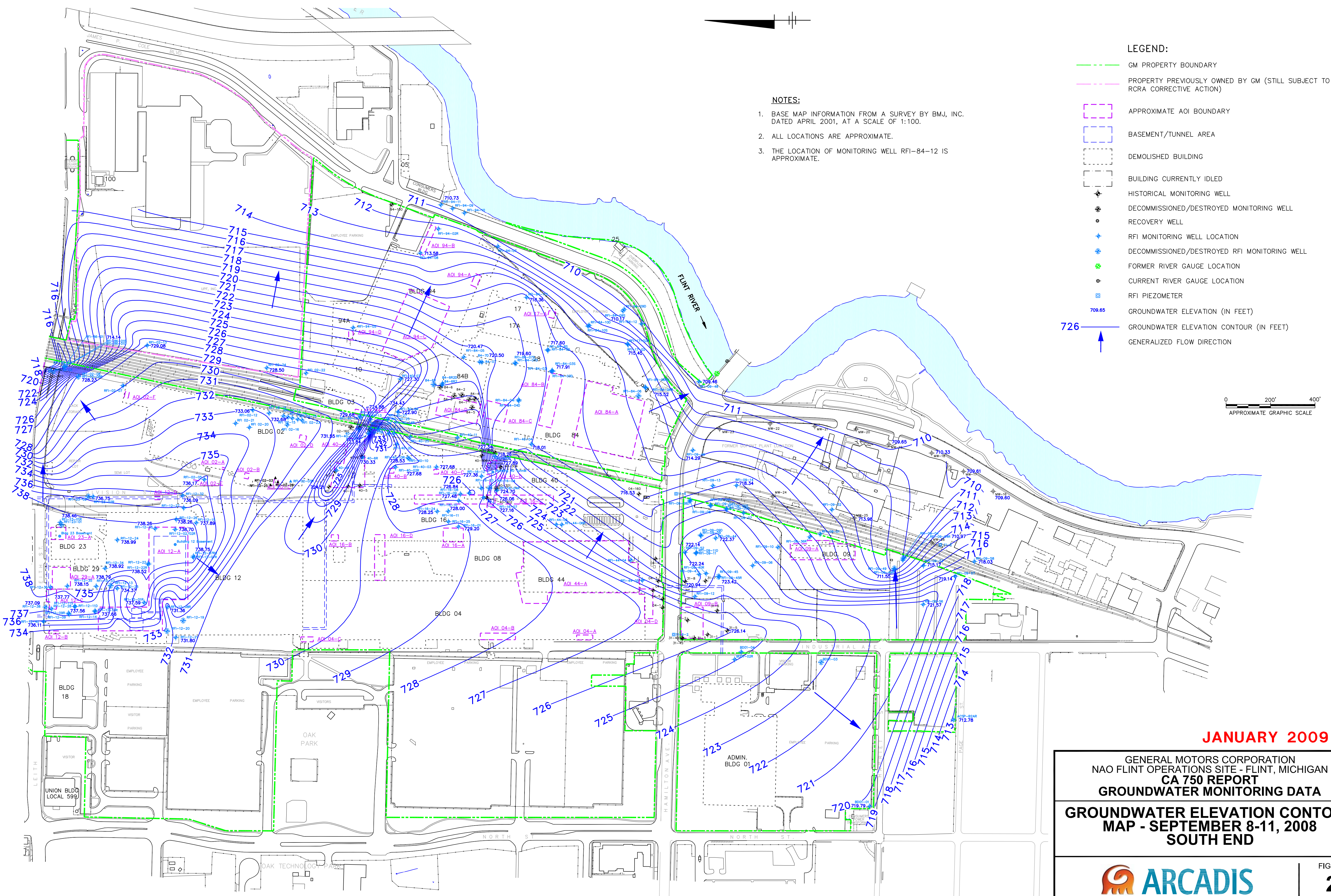
**GROUNDWATER ELEVATION CONTOUR
 MAP - SEPTEMBER 8-11, 2008
 NORTH END**



FIGURE
1

CITY: SYRACUSE, NY DIV: GROUP: ENVCAD-141 DB: GMS RCA LD: GMS AM: PD: TM: TR: LYRONI-OFF=REF GRAYX03MAP LEVID
 G: ENVCAD/SYRACUSE/ACT/B064410/000010500/DWG/CA750-08/64410/04.DWG LAYOUT: 2 SAVED: 12/27/2009 3:26 PM ACADVER: 17.05 (LMS TECH) PAGES: 17 OF 17 PLOTTED: 12/27/2009 4:57 PM BY: STOWELL, GARY

PROJECTNAME: GRAYX03MAP LEVID
 XREFS: 64410X01
 64410X0A
 64410X02
 64410X00



- NOTES:**
1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
 2. ALL LOCATIONS ARE APPROXIMATE.
 3. THE LOCATION OF MONITORING WELL RFI-84-12 IS APPROXIMATE.

- LEGEND:**
- GM PROPERTY BOUNDARY
 - PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
 - - - APPROXIMATE AOI BOUNDARY
 - - - BASEMENT/TUNNEL AREA
 - - - DEMOLISHED BUILDING
 - - - BUILDING CURRENTLY IDLED
 - ⊕ HISTORICAL MONITORING WELL
 - ⊕ DECOMMISSIONED/DESTROYED MONITORING WELL
 - ⊕ RECOVERY WELL
 - ⊕ RFI MONITORING WELL LOCATION
 - ⊕ DECOMMISSIONED/DESTROYED RFI MONITORING WELL
 - ⊕ FORMER RIVER GAUGE LOCATION
 - ⊕ CURRENT RIVER GAUGE LOCATION
 - ⊕ RFI PIEZOMETER
 - 709.65 GROUNDWATER ELEVATION (IN FEET)
 - 726 GROUNDWATER ELEVATION CONTOUR (IN FEET)
 - ↑ GENERALIZED FLOW DIRECTION

0 200' 400'
 APPROXIMATE GRAPHIC SCALE

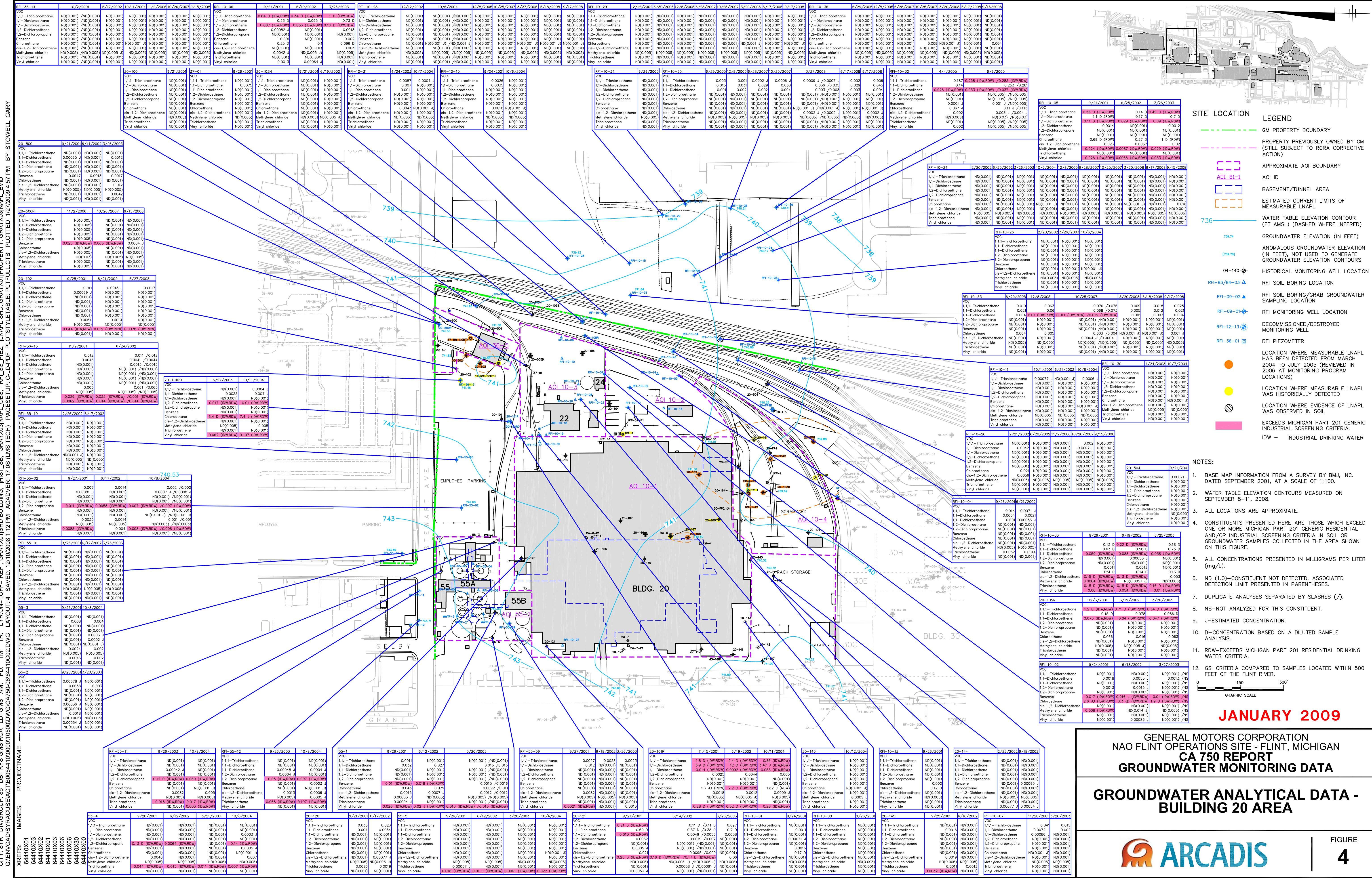
JANUARY 2009

GENERAL MOTORS CORPORATION
 NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
CA 750 REPORT
GROUNDWATER MONITORING DATA

**GROUNDWATER ELEVATION CONTOUR
 MAP - SEPTEMBER 8-11, 2008
 SOUTH END**

ARCADIS

FIGURE
2



PROJECT NAME: GRAYX033NAPL OBS. IRL S.S. PIEZ. HILAPLSTABLE: PLTULLCTB PLOTTED: 1/27/2009 4:57 PM BY: STOWELL, GARY

CITY: SVR DIV/GRUP: 85 DB: KFS GMS RCA LD: GMS AM: PD: TM: LYRON: OFF-REF: GRAYX033NAPL OBS. IRL S.S. PIEZ. HILAPLSTABLE: PLTULLCTB PLOTTED: 1/27/2009 4:57 PM BY: STOWELL, GARY

IMAGES: 644110X01 644110X02 644110X03 644110X04 644110X05 644110X06 644110X07 644110X08 644110X09 644110X10

SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERRRED)
- GROUNDWATER ELEVATION (IN FEET)
- ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- HISTORICAL MONITORING WELL LOCATION
- RFI SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI MONITORING WELL LOCATION
- DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005 (REVIEWED IN 2006 AT MONITORING PROGRAM LOCATIONS)
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
 - IDW - INDUSTRIAL DRINKING WATER

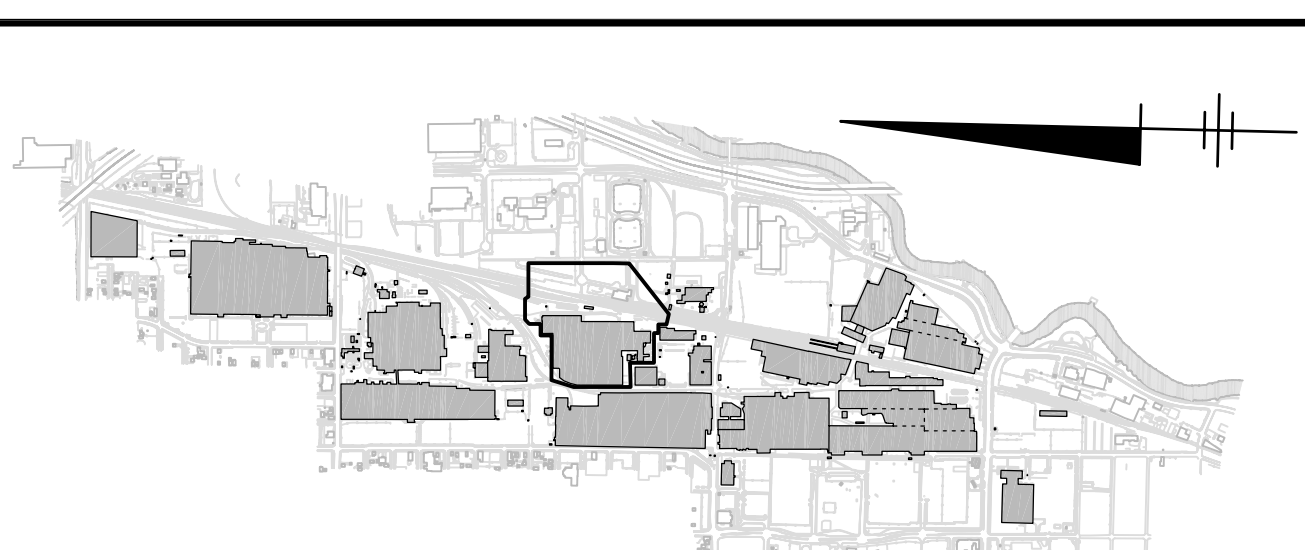
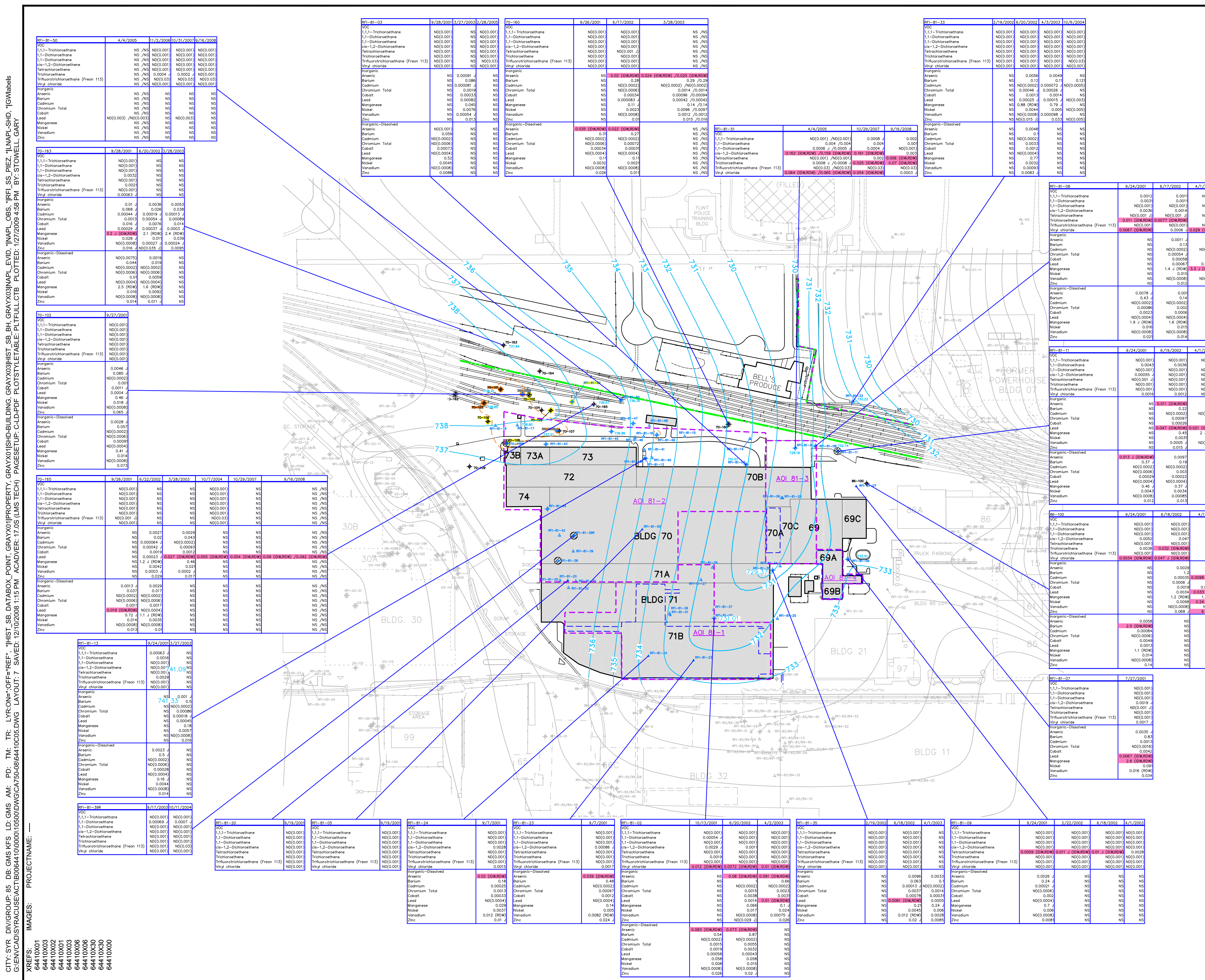
- ### NOTES:
- BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
 - WATER TABLE ELEVATION CONTOURS MEASURED ON SEPTEMBER 8-11, 2008.
 - ALL LOCATIONS ARE APPROXIMATE.
 - CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
 - ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (MG/L).
 - ND (1.0)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
 - DUPPLICATE ANALYSES SEPARATED BY SLASHES (/).
 - NS-NOT ANALYZED FOR THIS CONSTITUENT.
 - J-ESTIMATED CONCENTRATION.
 - D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
 - RDW-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
 - CSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
- GRAPHIC SCALE: 0 150' 300'

JANUARY 2009

**GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
CA 750 REPORT
GROUNDWATER MONITORING DATA**

**GROUNDWATER ANALYTICAL DATA -
BUILDING 20 AREA**

FIGURE 4



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- WATER TABLE ELEVATION CONTOUR (FT AMSL)
- GROUNDWATER ELEVATION (IN FEET)
- ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- HISTORICAL MONITORING WELL LOCATION
- RFI SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI MONITORING WELL LOCATION
- DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005 (REVIEWED IN 2006 AT MONITORING PROGRAM LOCATIONS)
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
 - IDW - INDUSTRIAL DRINKING WATER

- NOTES:**
- BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
 - WATER TABLE ELEVATION CONTOURS MEASURED ON SEPTEMBER 8-11, 2008.
 - ALL LOCATIONS ARE APPROXIMATE.
 - CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
 - ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (MG/L).
 - ND (1.0)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
 - DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
 - NS-NOT ANALYZED FOR THIS CONSTITUENT.
 - J-ESTIMATED CONCENTRATION.
 - ROW-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
 - CSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.



JANUARY 2009

**GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
CA 750 REPORT
GROUNDWATER MONITORING DATA**

**GROUNDWATER ANALYTICAL DATA -
FACTORY 81 (BUILDINGS 69, 70, 71,
72, 73, AND 74) AREA**

PROJECT NAME: TR: LYRONE-OFF-REF; HIST. SB. DATABOX POINT. GRAYX031HIST. SB. BH. GRAYX031MAPLEVID. INAPL.SS. RFI. SS. PIEZ. UNAPL.SHD. IOWBABELS. G5ENV. CAD. DIV. FACUSE. ACTBTOB06441000001.105000DWGCA750-0864410005.DWG. LAYOUT: 12/10/2008 1:15 PM. ACADVER: 17.05 (LMS TECH). PAGES: 1-10. PLOTTED: 1/27/2009 4:58 PM. BY: STOWELL, GARY

RFI-81-50 4/4/2005 11/2/2006 10/3/2007 7/16/2008

VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS

RFI-81-51 9/28/2001 6/20/2002 3/28/2003

VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	0.0063 J	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	0.01 J	NS	NS	NS	NS
Barium	0.0088 J	NS	NS	NS	NS
Cadmium	0.00044 J	NS	NS	NS	NS
Chromium Total	0.0011 J	NS	NS	NS	NS
Cobalt	0.016 J	NS	NS	NS	NS
Lead	0.00037 J	NS	NS	NS	NS
Manganese	2.1 (ROW) J	NS	NS	NS	NS
Nickel	0.028 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.016 J	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	ND(0.0075)	NS	NS	NS	NS
Barium	0.0044 J	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS
Chromium Total	ND(0.0006)	NS	NS	NS	NS
Cobalt	ND(0.0004)	NS	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS	NS
Manganese	1.6 (ROW) J	NS	NS	NS	NS
Nickel	0.016 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.014 J	NS	NS	NS	NS

RFI-81-52 9/23/2001

VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	0.0046 J	NS	NS	NS	NS
Barium	0.005 J	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS
Chromium Total	0.009 J	NS	NS	NS	NS
Cobalt	0.0011 J	NS	NS	NS	NS
Lead	0.0004 J	NS	NS	NS	NS
Manganese	0.46 J	NS	NS	NS	NS
Nickel	0.018 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.065 J	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	0.0028 J	NS	NS	NS	NS
Barium	ND(0.0002)	NS	NS	NS	NS
Cadmium	ND(0.0006)	NS	NS	NS	NS
Chromium Total	0.0009 J	NS	NS	NS	NS
Cobalt	ND(0.0004)	NS	NS	NS	NS
Lead	0.01 J	NS	NS	NS	NS
Manganese	0.014 J	NS	NS	NS	NS
Nickel	0.014 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.073 J	NS	NS	NS	NS

RFI-81-53 9/26/2001 6/20/2002 3/28/2003 10/7/2004 10/26/2007 9/16/2008

VOC	ND(0.001)	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS	NS	NS
Arsenic	0.0013 J	NS	NS	NS	NS	NS	NS
Barium	0.003 J	NS	NS	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS	NS	NS
Chromium Total	ND(0.0006)	NS	NS	NS	NS	NS	NS
Cobalt	0.019 (ROW) J	NS	NS	NS	NS	NS	NS
Lead	0.72 J	NS	NS	NS	NS	NS	NS
Manganese	0.14 J	NS	NS	NS	NS	NS	NS
Nickel	0.014 J	NS	NS	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS	NS	NS
Zinc	0.01 J	NS	NS	NS	NS	NS	NS

RFI-81-54 9/24/2001 6/19/2002 4/1/2003 10/7/2004 2/24/2005

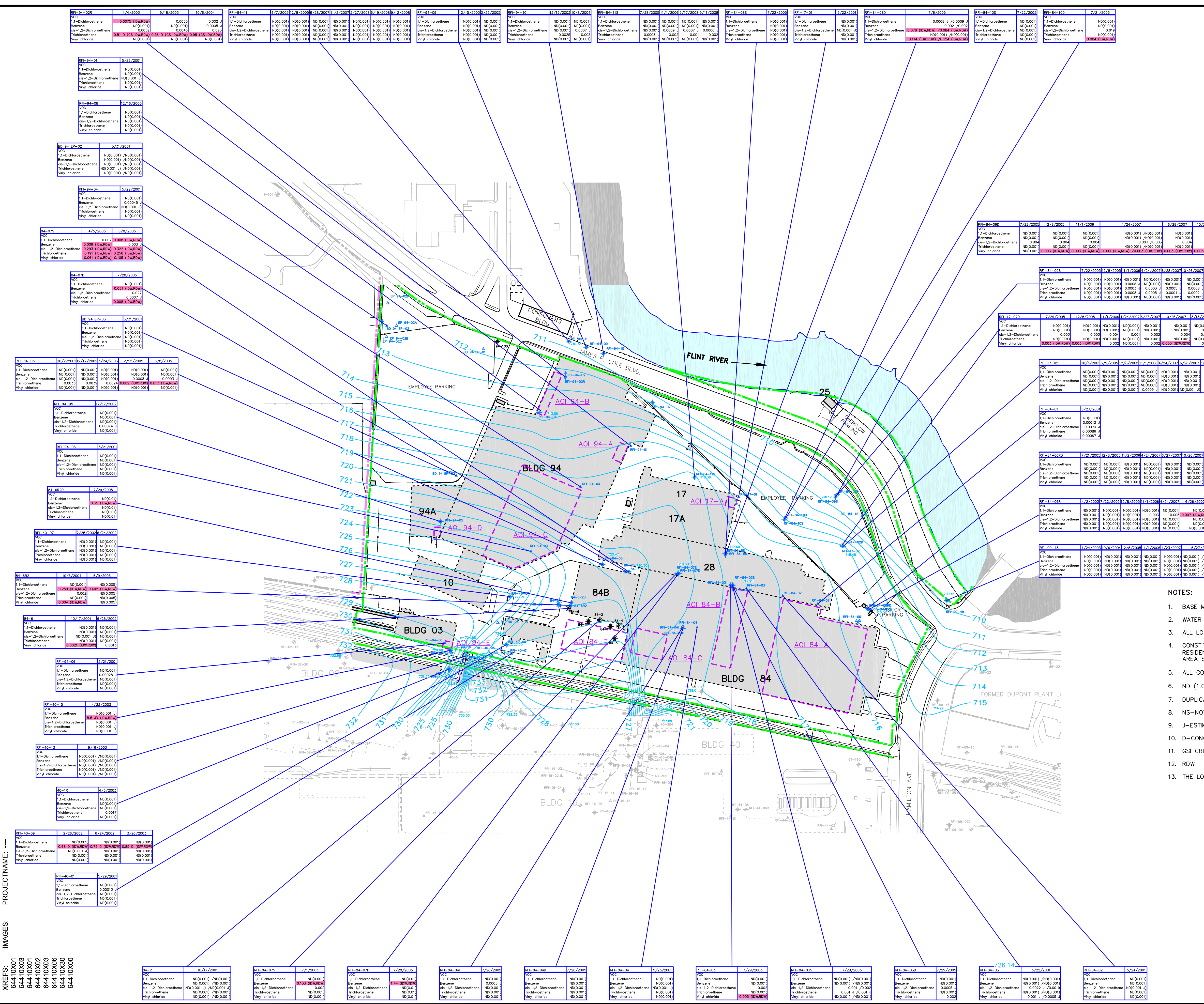
VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	0.0078 J	NS	NS	NS	NS
Barium	0.45 J	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS
Chromium Total	0.0084 J	NS	NS	NS	NS
Cobalt	0.002 J	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	1.4 J	NS	NS	NS	NS
Nickel	0.015 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.012 J	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	0.0078 J	NS	NS	NS	NS
Barium	0.45 J	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS
Chromium Total	0.0084 J	NS	NS	NS	NS
Cobalt	0.002 J	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	1.9 J	NS	NS	NS	NS
Nickel	0.015 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.012 J	NS	NS	NS	NS

RFI-81-55 9/24/2001 6/19/2002 4/1/2003 10/7/2004 2/24/2005

VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS	NS	NS
Arsenic	0.013 J	NS	NS	NS	NS
Barium	0.0097 J	NS	NS	NS	NS
Cadmium	ND(0.0002)	NS	NS	NS	NS
Chromium Total	0.0097 J	NS	NS	NS	NS
Cobalt	0.047 (ROW) J	NS	NS	NS	NS
Lead	0.0004 J	NS	NS	NS	NS
Manganese	0.043 J	NS	NS	NS	NS
Nickel	0.014 J	NS	NS	NS	NS
Vanadium	ND(0.0008)	NS	NS	NS	NS
Zinc	0.012 J	NS	NS	NS	NS

RFI-81-56 9/24/2001 6/19/2002 4/1/2003 10/7/2004 2/24/2005

VOC	ND(0.001)	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.001)	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.001)	NS	NS	NS	NS
cis-1,2-Dichloroethane	ND(0.001)	NS	NS	NS	NS
Tetrachloroethane	ND(0.001)	NS	NS	NS	NS
Trifluorotrchloroethane (Freon 113)	ND(0.001)	NS	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS	NS
Inorganic	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS
Chromium Total	NS	NS	NS	NS	NS
Cobalt	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS
Inorganic-Dissolved	NS	NS	NS		



SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- APPROXIMATE AOI BOUNDARY
- AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- WATER TABLE ELEVATION CONTOUR (FT AMSL) (DASHED WHERE INFERED)
- GROUNDWATER ELEVATION (IN FEET)
- ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- HISTORICAL MONITORING WELL LOCATION
- RFI SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI MONITORING WELL LOCATION
- DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI PIEZOMETER
- FORMER RIVER GAUGE LOCATION
- CURRENT RIVER GAUGE LOCATION
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005 (REVIEWED IN 2006 AT MONITORING PROGRAM LOCATIONS)
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
- IDW - INDUSTRIAL DRINKING WATER
- GSI - GROUNDWATER SURFACE WATER INTERFACE

NOTES:

- BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
- WATER TABLE ELEVATION CONTOURS MEASURED ON SEPTEMBER 8-11, 2008.
- ALL LOCATIONS ARE APPROXIMATE.
- CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
- ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
- ND (1.0)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
- DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
- NS-NOT ANALYZED FOR THIS CONSTITUENT.
- J-ESTIMATED CONCENTRATION.
- D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
- GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
- EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
- THE LOCATION OF MONITORING WELL RFI-84-12 IS APPROXIMATE.

0 150' 300'
GRAPHIC SCALE

JANUARY 2009

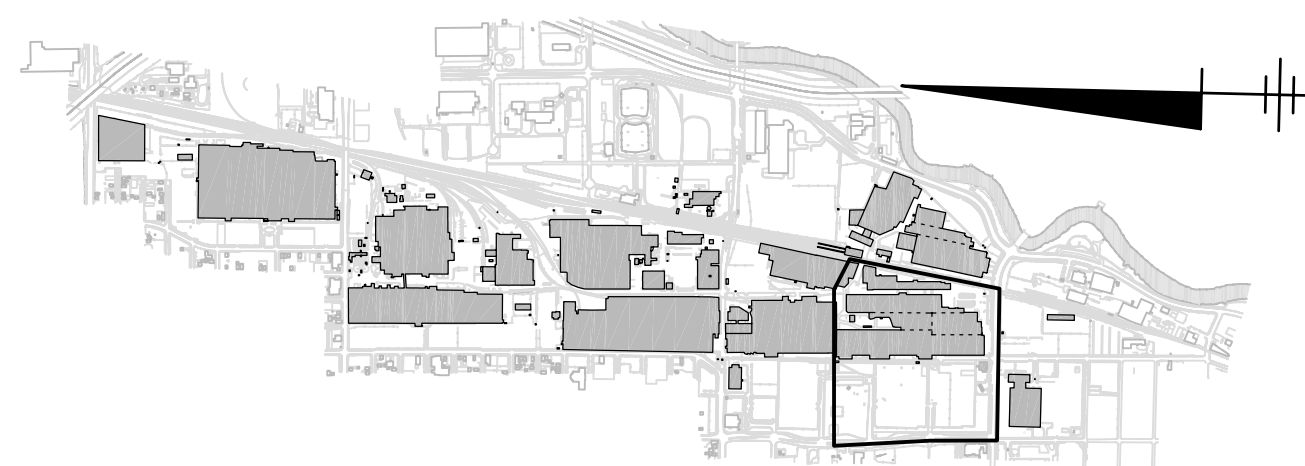
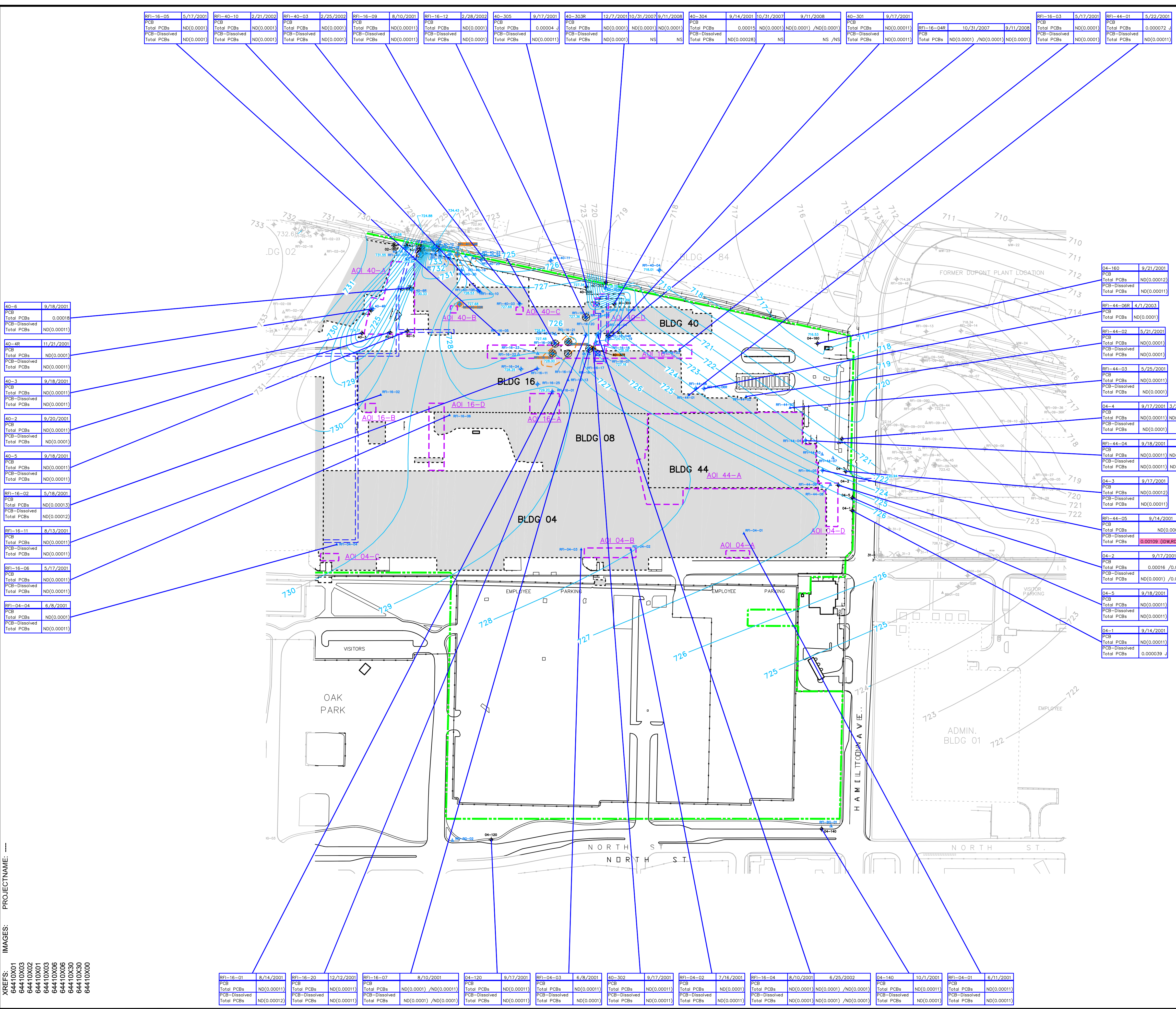
GENERAL MOTORS CORPORATION
 NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
 CA 750 REPORT
GROUNDWATER MONITORING DATA

**GROUNDWATER ANALYTICAL DATA -
 FORMER BUILDINGS 03, 17, 28, 84,
 AND 94 AREA**

ARCADIS

FIGURE
9

CITY: SYR DIV/GRP: 85 DR: GMS KFS RCA LD: GMS AM: PD: TM: TR: LYRON+OFF=REF: JHIST SR DATABOX POINT GRAYX01PROPERTY GRAYX01SHD-BUILDING GRAYX03HIST_SB_BH GRAYX03INAPL_EVID_INAPL_OBS_TRFL SS_PIEZ_INAPL-SHD_IOWabals
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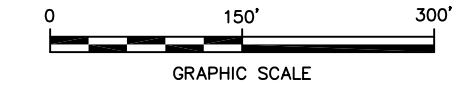


SITE LOCATION

LEGEND

- GM PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE AOI BOUNDARY
- AOI ID
- BASEMENT/TUNNEL AREA
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- WATER TABLE ELEVATION CONTOUR (FT AMSL)
- GROUNDWATER ELEVATION (IN FEET)
- ANOMALOUS GROUNDWATER ELEVATION (IN FEET), NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- HISTORICAL MONITORING WELL LOCATION
- RFI SOIL BORING LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLING LOCATION
- RFI MONITORING WELL LOCATION
- DECOMMISSIONED/DESTROYED MONITORING WELL
- RFI PIEZOMETER
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED FROM MARCH 2004 TO JULY 2005
- LOCATION WHERE MEASURABLE LNAPL WAS HISTORICALLY DETECTED
- LOCATION WHERE EVIDENCE OF LNAPL WAS OBSERVED IN SOIL
- EXCEEDS MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA:
- IDW - INDUSTRIAL DRINKING WATER
- GCC - GROUNDWATER CONTACT
- GAI - GROUNDWATER ACUTE INHALATION

- NOTES:**
- BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
 - WATER TABLE ELEVATION CONTOURS MEASURED ON SEPTEMBER 8-11, 2008.
 - ALL LOCATIONS ARE APPROXIMATE.
 - CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL AND/OR INDUSTRIAL SCREENING CRITERIA IN SOIL OR GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
 - ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
 - ND (1.0)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
 - DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
 - NS-NOT ANALYZED FOR THIS CONSTITUENT.
 - J-ESTIMATED CONCENTRATION.
 - D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
 - GSJ CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
 - BIS(2-ETHYLHEXYL)PHTHALATE DETECTED IN SAMPLES COLLECTED FROM TEMPORARY WELLS IN MAY 2001 WERE FOUND TO BE CAUSED BY THE TUBING USED TO COLLECT THE SAMPLES.
 - RDW - EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
 - ULF - SAMPLE WAS COLLECTED USING ULTRA LOW-FLOW PROCEDURES TO MINIMIZE TURBIDITY.



JANUARY 2009

GENERAL MOTORS CORPORATION
 NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
 CA 750 REPORT
GROUNDWATER MONITORING DATA
GROUNDWATER ANALYTICAL DATA -
FORMER BUILDINGS 04, 08, 16, 40,
AND 44 AREA



FIGURE
11

XPREFS:
 64410X01
 64410X02
 64410X03
 64410X04
 64410X05
 64410X06
 64410X07
 64410X08
 64410X09
 64410X10

RFI-16-01	3/14/2001	RFI-16-20	12/12/2001	RFI-16-07	8/10/2001	04-120	9/17/2001	RFI-04-03	6/8/2001	40-302	9/17/2001	RFI-04-02	7/16/2001	RFI-16-04	8/10/2001	6/25/2002	04-140	10/1/2001	RFI-04-01	6/11/2001
PCB	ND(0.0001)	PCB	ND(0.0001)	PCB	ND(0.0001)	Total PCBs	ND(0.0001)	PCB	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	PCB	ND(0.0001)	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)
Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)
PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	PCB-Dissolved	ND(0.0001)	PCB-Dissolved	ND(0.0001)
Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)	Total PCBs	Total PCBs	ND(0.0001)	Total PCBs	ND(0.0001)

ARCADIS

Attachment 1

Data Validation Report



MEMORANDUM

TO: Derek Kaiding [Derek.Kaiding@arcadis-us.com] REF. NO.: 017307-195021

FROM: Kathleen Willy/bjw/5 *KW* DATE: December 15, 2008

C.C. JoAnn Robertson [joann.robertson@arcadis-us.com] E-Mail and Hard Copy if Requested

RE: **Data Quality Assessment and Validation
Site Investigation
General Motors NAO Flint Operations
Flint, Michigan
September 2008**

The following details a quality assessment and validation of the analytical data resulting from the collection of 43 water samples, five trip blanks, and four field duplicate samples from the General Motors Site (Site) in Flint, Michigan during September 2008. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Merit Laboratories, Inc. in East Lansing, Michigan, in accordance with the methodology presented in Table 2. The QC criteria used to assess the data were established by the method and the following documents:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999;
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994; and
- iii) "Innovative Approaches to Data Validation", USEPA Region III, June 1995.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C ($\pm 2^\circ\text{C}$) after collection.

Gas Chromatography/Mass Spectrometer (GC/MS) Mass Calibration

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the volatile organic compound (VOC) and semi-volatile organic compound

(SVOC) methods require the analysis of the specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

Initial Calibration - Organic Analyses, GC/MS

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a minimum of a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range.

Calibration data were reviewed for all samples. Linearity of the calibration curve and instrument sensitivity were evaluated against the following criteria:

- i) all relative response factors (RRFs) must be greater than or equal to 0.05; and
- ii) percent relative standard deviation (%RSD) values must not exceed 30 percent or if linear regression is used, the correlation coefficient (R^2) value must be at least 0.990.

Initial calibration standards were analyzed as required and the data showed acceptable sensitivity and linearity with the exception of 2-Hexanone. Associated sample results have been qualified as estimated (see Table 3).

Initial Calibration - Inorganic Analyses

To calibrate the inductively coupled plasma (ICP), a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves within a method-specific percent recovery of the accepted or true value.

A review of the data showed that all metals calibration curves and ICVs were analyzed at the proper frequencies and were within the acceptance criteria.

Continuing Calibration - Organics, GC/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) all RRF values must be greater than or equal to 0.05; and
- ii) percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and all results met the above criteria for instrument sensitivity with the exception of some VOCs which exhibited variability in instrument response. Associated sample data for these compounds were qualified as estimated (see Table 4).

Continuing Calibration - Inorganics

Continuing calibration criteria for inorganic analyses were the same criteria as used for assessing the initial calibration data. The continuing calibration verification data were within the acceptance criteria.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. All surrogate recoveries were within the laboratory specified control limits demonstrating acceptable analytical accuracy.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs are prepared and analyzed in duplicate.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the laboratory specified control limits for all analytes of interest demonstrating acceptable overall analytical accuracy and precision (where applicable) with the exception of one low VOC recoveries. The associated sample results were qualified as estimated (see Table 5).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for the organic parameters. MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

Site-specific MS/MSD analyses were performed as specified in Table 1 and all recoveries were within laboratory specified control limits with the exception of some low VOC recoveries. The associated sample results were qualified as estimated (see Table 6).

Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

Serial Dilution - Inorganic Analyses

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 10 percent of the original results.

Site-specific serial dilution analyses were not performed.

Internal Standard (IS) Summaries

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and QC samples prior to VOC, and SVOC analysis. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

- i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard; and
- ii) the retention time of the IS must not vary more than ± 30 seconds from the associated calibration standard.

All sample IS results met the above criteria and all were correctly used to calculate sample results.

Field QA/QC

The field QA/QC consisted of five trip blanks, and four field duplicate samples.

Trip Blank

Trip blanks are transported, stored, and analyzed with the investigative samples to identify potential cross-contamination of VOCs. Trip blanks were collected at the proper frequency and were non-detect for the compounds of interest with the exception of toluene and methylene chloride. Associated toluene and methylene chloride results with concentrations similar to those found in the trip blanks were qualified as non-detect (see Table 7). Associated results that were either non-detect or significantly greater than the concentrations found in the blanks would not have been impacted.

Field Duplicate

Samples were collected in duplicate as summarized in Table 1 and submitted blind to the laboratory for analysis. All sample results outside estimated ranges of detection showed acceptable sampling and analytical precision.

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
SITE INVESTIGATION
GENERAL MOTORS NAO FLINT OPERATIONS
FLINT, MICHIGAN
SEPTEMBER 2008

Sample ID	Location ID	<i>Analysis/Parameters</i>		Total Lead	TCL VOCs	Comments
		Collection Date (mm/dd/yy)	Collection Time (hr:min)			
43-140(091608)	43-140	09/16/08	10:30		X	
RFI-81-51(091608)	RFI-81-51	09/16/08	12:23		X	MS/MSD
RFI-81-50(091608)	RFI-81-50	09/16/08	14:27		X	
70-165(091608)	70-165	09/16/08	15:47	X		MS/MSD
Tripblank-4(091608)	TRIPBLANK	09/16/08	-		X	Trip Blank
Duplicate-3(091608)	43-140	09/16/08	10:30		X	Field duplicate of sample 43-140(091608)
Duplicate-4(091608)	70-165	09/16/08	15:47	X		Field duplicate of sample 70-165(091608)
RFI-10-35(091708)	RFI-10-35	09/17/08	9:30		X	
RFI-10-33(091708)	RFI-10-33	09/17/08	9:32		X	
RFI-10-29(091708)	RFI-10-29	09/17/08	10:38		X	
RFI-10-28(091708)	RFI-10-28	09/17/08	10:42		X	
RFI-36-19(091708)	RFI-36-19	09/17/08	12:22		X	
RFI-36-55(091708)	RFI-36-55	09/17/08	13:02		X	
RFI-36-56(091708)	RFI-36-56	09/17/08	13:47		X	
RFI-36-48(091708)	RFI-36-48	09/17/08	14:22		X	
RFI-36-47(091808)	RFI-36-47	09/18/08	11:27		X	
RFI-36-37(091808)	RFI-36-37	09/18/08	11:35		X	
RFI-36-04(091808)	RFI-36-04	09/18/08	13:47		X	
Tripblank-5(091808)	TRIPBLANK	09/18/08	-		X	Trip Blank
RFI-09-14(091008)	RF-09-14	09/10/08	11:52		X	
RFI-17-02D(091008)	RFI-17-02D	09/10/08	14:35		X	MS/MSD
RFI-84-06RD(091008)	RFI-84-06RD	09/10/08	15:22		X	
RFI-17-02(091008)	RFI-17-02	09/10/08	16:05		X	
DUPLICATE-1(091008)	RFI-17-02D	09/10/08	14:35		X	Field duplicate of sample RFI-17-02D(091008)
RFI-84-06R(091008)	RFI-84-06R	09/10/08	16:23		X	
RFI-23-01R(091108)	RFI-23-01R	09/11/08	9:45		X	
RFI-16-04R(091108)	RFI-16-04R	09/11/08	10:10	X		MS/MSD
RFI-84-09S(091108)	RFI-84-09S	09/11/08	10:22		X	
RFI-84-09D(091108)	RFI-84-09D	09/11/08	11:22		X	
40-304(091108)	40-304	09/11/08	11:50	X		

TABLE 1
 SAMPLE COLLECTION AND ANALYSIS SUMMARY
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

Sample ID	Location ID	<u>Analysis/Parameters</u>		Total Lead	TCL VOCs	Comments
		Collection Date (mm/dd/yy)	Collection Time (hr:min)			
RFI-84-11S(091108)	RFI-84-11S	09/11/08	12:57		X	
RFI-02-12(091108)	RFI-02-12	09/11/08	15:07		X	
40-303R(091108)	40-303R	09/11/08	15:38	X		
RFI-12-32(091108)	RFI-12-32	09/11/08	16:05		X	
DUPLICATE-2(091008)	40-304	09/11/08	11:50	X		Field duplicate of sample 40-304(091108)
TRIPBLANK(091008)	Trip Blank	09/10/08	-		X	Trip Blank
RFI-94-11(091208)	RFI-94-11	09/12/08	9:52	X		
RFI-02-24(091208)	RFI-02-24	09/12/08	10:30	X		
RFI-09-46(091208)	RFI-09-46	09/12/08	11:22	X		
RFI-09-48(091208)	RFI-09-48	09/12/08	11:30	X		
87-FP-4(091208)	87-FP4	09/12/08	12:35	X		
RFI-09-04R(091208)	RFI-09-04R	09/12/08	14:12	X		
RFI-09-53(091208)	RFI-09-53	09/12/08	14:15	X		
TRIPBLANK-2(091208)	TRIPBLANK	09/12/08	-	X		Trip Blank
20-500R(091508)	20-500R	09/15/08	10:02	X		
RFI-36-14(091508)	RFI-36-14	09/15/08	11:22	X		
RFI-86-16R(091508)	RFI-86-16R	09/15/08	10:42	X		
RFI-10-24(091508)	RFI-10-24	09/15/08	13:07	X		
20-FP10R(091508)	20-FP10R	09/15/08	13:40	X		
RFI-10-36(091508)	RFI-10-36	09/15/08	15:12	X		
RFI-10-26(091508)	RFI-10-26	09/15/08	15:25	X		
TRIPBLANK-3(091508)	TRIPBLANK	09/15/08	-	X		Trip Blank

Notes:

MS Matrix Spike
 MSD Matrix Spike Duplicate.
 TCL Target Compound List.
 VOCs Volatile Organic Compounds.

TABLE 2
SUMMARY OF ANALYTICAL METHODOLOGIES
SITE INVESTIGATION
GENERAL MOTORS NAO FLINT OPERATIONS
FLINT, MICHIGAN
SEPTEMBER 2008

<i>Parameter</i>	<i>Method</i>
TCL VOCs	SW-846 8260 ¹
Lead	SW-846 6020 ¹

Notes:

¹ "Test Methods for Solid Waste Physical/Chemical Methods",
SW-846, 3rd Edition, September 1986 (with subsequent
revisions).

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TABLE 3
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Compound</i>	<i>Calibration Date</i>	<i>RSD</i>	<i>RRF</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Results</i>	<i>Units</i>
VOCs	2-Hexanone	09/22/08	6.8	0.043	DUPLICATE-1(091008)	50 UJ	µg/L
					RFI-02-12(091108)	50 UJ	µg/L
					RFI-09-14(091008)	50 UJ	µg/L
					RFI-12-32(091108)	50 UJ	µg/L
					RFI-17-02(091008)	50 UJ	µg/L
					RFI-17-02D(091008)	50 UJ	µg/L
					RFI-23-01R(091108)	50 UJ	µg/L
					RFI-84-06R(091008)	50 UJ	µg/L
					RFI-84-06RD(091008)	50 UJ	µg/L
					RFI-84-09D(091108)	50 UJ	µg/L
					RFI-84-09S(091108)	50 UJ	µg/L
					RFI-84-11S(091108)	50 UJ	µg/L
					20-500R(091508)	50 UJ	µg/L
					20-FP10R(091508)	50 UJ	µg/L
					87-FP-4(091208)	50 UJ	µg/L
					RFI-02-24(091208)	50 UJ	µg/L
					RFI-09-04R(091208)	50 UJ	µg/L
					RFI-09-46(091208)	50 UJ	µg/L
					RFI-09-48(091208)	50 UJ	µg/L
					RFI-09-53(091208)	50 UJ	µg/L
					RFI-10-24(091508)	50 UJ	µg/L
					RFI-10-26(091508)	50 UJ	µg/L
					RFI-10-36(091508)	50 UJ	µg/L
					RFI-36-14(091508)	50 UJ	µg/L
					RFI-86-16R(091508)	50 UJ	µg/L
					RFI-94-11(091208)	50 UJ	µg/L
					43-140(091608)	50 UJ	µg/L
					Duplicate-3(091608)	50 UJ	µg/L
					RFI-10-28(091708)	50 UJ	µg/L
					RFI-10-29(091708)	50 UJ	µg/L
RFI-10-33(091708)	50 UJ	µg/L					
RFI-10-35(091708)	50 UJ	µg/L					

TABLE 3
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Compound</i>	<i>Calibration Date</i>	<i>RSD</i>	<i>RRF</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Results</i>	<i>Units</i>
VOCs	2-Hexanone	09/22/08	6.8	0.043	RFI-36-04(091808)	50 UJ	µg/L
					RFI-36-19(091708)	50 UJ	µg/L
					RFI-36-37(091808)	50 UJ	µg/L
					RFI-36-47(091808)	50 UJ	µg/L
					RFI-36-48(091708)	50 UJ	µg/L
					RFI-36-55(091708)	50 UJ	µg/L
					RFI-36-56(091708)	50 UJ	µg/L
					RFI-81-50(091608)	50 UJ	µg/L
RFI-81-51(091608)	50 UJ	µg/L					

Notes:

RRF Relative Response Factor.

RSD Relative Standard Deviation.

UJ Not detected, estimated reporting limit.

VOCs Volatile Organic Compounds.

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Results</i>	<i>Units</i>
VOCs	09/22/08	Dichlorodifluoromethane	46	DUPLICATE-1(091008)	1 UJ	µg/L
				RFI-02-12(091108)	1 UJ	µg/L
				RFI-09-14(091008)	1 UJ	µg/L
				RFI-12-32(091108)	1 UJ	µg/L
				RFI-17-02(091008)	1 UJ	µg/L
				RFI-17-02D(091008)	1 UJ	µg/L
				RFI-23-01R(091108)	1 UJ	µg/L
				RFI-84-06R(091008)	1 UJ	µg/L
				RFI-84-06RD(091008)	1 UJ	µg/L
				RFI-84-09D(091108)	1 UJ	µg/L
				RFI-84-09S(091108)	1 UJ	µg/L
				RFI-84-11S(091108)	1 UJ	µg/L
				VOCs	09/26/08	Dichlorodifluoromethane
VOCs	09/29/09	Bromomethane	43	43-140(091608)	2 UJ	µg/L
				Duplicate-3(091608)	2 UJ	µg/L
				RFI-10-28(091708)	2 UJ	µg/L
				RFI-10-29(091708)	2 UJ	µg/L
				RFI-10-33(091708)	2 UJ	µg/L
				RFI-10-35(091708)	2 UJ	µg/L
				RFI-36-04(091808)	2 UJ	µg/L
				RFI-36-19(091708)	2 UJ	µg/L
				RFI-36-37(091808)	2 UJ	µg/L
				RFI-36-47(091808)	2 UJ	µg/L
				RFI-36-48(091708)	2 UJ	µg/L
				RFI-36-55(091708)	2 UJ	µg/L
				RFI-36-56(091708)	2 UJ	µg/L
				RFI-81-50(091608)	2 UJ	µg/L
				RFI-81-51(091608)	2 UJ	µg/L

TABLE 4
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Results</i>	<i>Units</i>
VOCs	09/29/09	Chloroethane	27	43-140(091608)	1 UJ	µg/L
				Duplicate-3(091608)	1 UJ	µg/L
				RFI-10-28(091708)	1 UJ	µg/L
				RFI-10-29(091708)	1 UJ	µg/L
				RFI-10-33(091708)	1 J	µg/L
				RFI-10-35(091708)	1 UJ	µg/L
				RFI-36-04(091808)	1 UJ	µg/L
				RFI-36-19(091708)	1 UJ	µg/L
				RFI-36-37(091808)	1 UJ	µg/L
				RFI-36-47(091808)	26 J	µg/L
				RFI-36-48(091708)	1 UJ	µg/L
				RFI-36-55(091708)	1 UJ	µg/L
				RFI-36-56(091708)	1 UJ	µg/L
				RFI-81-50(091608)	1 UJ	µg/L
				RFI-81-51(091608)	1 UJ	µg/L

Notes:

% D Percent Difference.

J Estimated.

UJ Not detected, estimated reporting limit.

VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

Parameter	Compound	LCS Date	Associated Sample ID	LCS %Rec	LCSD %Rec	RPD (percent)	Control Limits		Qualified Sample Results	Units
							%Rec	%RPD		
VOCs	Cyclohexane	09/22/08	DUPLICATE-1(091008)	43	41	3.3	78 - 146	25	1 UJ	µg/L
			RFI-02-12(091108)						1 UJ	µg/L
			RFI-09-14(091008)						1 UJ	µg/L
			RFI-12-32(091108)						1 UJ	µg/L
			RFI-17-02(091008)						1 UJ	µg/L
			RFI-17-02D(091008)						1 UJ	µg/L
			RFI-23-01R(091108)						1 UJ	µg/L
			RFI-84-06R(091008)						1 UJ	µg/L
			RFI-84-06RD(091008)						1 UJ	µg/L
			RFI-84-09D(091108)						1 UJ	µg/L
			RFI-84-09S(091108)						1 UJ	µg/L
RFI-84-11S(091108)	1 UJ	µg/L								
VOCs	Cyclohexane	09/25/08	20-500R(091508)	40	44	10	78 - 146	25	1 UJ	µg/L
			20-FP10R(091508)						1 UJ	µg/L
			87-FP-4(091208)						1 UJ	µg/L
			RFI-02-24(091208)						1 UJ	µg/L
			RFI-09-04R(091208)						1 UJ	µg/L
			RFI-09-48(091208)						1 UJ	µg/L
			RFI-09-53(091208)						1 UJ	µg/L
			RFI-10-24(091508)						1 UJ	µg/L
			RFI-10-26(091508)						1 UJ	µg/L
			RFI-10-36(091508)						1 UJ	µg/L
			RFI-36-14(091508)						1 UJ	µg/L
			RFI-86-16R(091508)						1 UJ	µg/L
			RFI-94-11(091208)						1 UJ	µg/L
VOCs	Dichlorodifluoromethane	09/26/08	RFI-09-46(091208)	23	22	4.3	25 - 130	25	1 UJ	µg/L
VOCs	Chloromethane	09/26/08	RFI-09-46(091208)	42	41	1.2	54 - 147	25	4 UJ	µg/L
VOCs	Cyclohexane	09/26/08	RFI-09-46(091208)	42	43	1.7	78 - 146	25	1 UJ	µg/L

Notes:

LCS Laboratory Control Sample.

LCSD Laboratory Control Sample Duplicate.

RPD Relative Percent Difference.

UJ Not detected, estimated reporting limit.

VOCs Volatile Organic Compounds.

TABLE 6
 QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Associated Sample ID</i>	<i>Analyte</i>	<i>MS Recovery (percent)</i>	<i>MSD Recovery (percent)</i>	<i>RPD</i>	<i>Control Limits</i>		<i>Qualified Sample Result</i>	<i>Units</i>
						<i>Recovery (percent)</i>	<i>RPD (percent)</i>		
VOCs	RFI-17-02D(091008)	Chloromethane	53	53	1.2	54 - 147	25	1 UJ	µg/L
VOCs	RFI-17-02D(091008)	Cyclohexane	42	42	0.5	78 - 146	25	1 UJ	µg/L
VOCs	RFI-81-51(091608)	Acetone	137	129	5.6	28 - 122	25	20 UJ	µg/L
VOCs	RFI-81-51(091608)	Chloromethane	45	47	3.3	54 - 147	25	1 UJ	µg/L
VOCs	RFI-81-51(091608)	Cyclohexane	45	46	2	78 - 146	25	1 UJ	µg/L
VOCs	RFI-81-51(091608)	Styrene	40	47	20	76 - 120	25	1 UJ	µg/L

Notes:

- MS Matrix Spike
- MSD Matrix Spike Duplicate.
- RPD Relative Percent Difference.
- UJ Not detected, estimated reporting limit.
- VOCs Volatile Organic Compounds.

TABLE 7
 QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Result</i>	<i>Units</i>
VOCs	09/10/08	Toluene	0.1J	DUPLICATE-1(091008)	1 U	µg/L
				RFI-12-32(091108)	1 U	µg/L
				RFI-17-02D(091008)	1 U	µg/L
				RFI-23-01R(091108)	1 U	µg/L
				RFI-84-06R(091008)	1 U	µg/L
				RFI-84-06RD(091008)	1 U	µg/L
				RFI-84-09D(091108)	1 U	µg/L
				RFI-84-09S(091108)	1 U	µg/L
RFI-84-11S(091108)	1 U	µg/L				
VOCs	09/12/08	Toluene	0.2J	87-FP-4(091208)	1 U	µg/L
				RFI-09-04R(091208)	1 U	µg/L
VOCs	09/12/08	Methylene chloride	0.5J	87-FP-4(091208)	5 U	µg/L
				RFI-02-24(091208)	5 U	µg/L
				RFI-09-04R(091208)	5 U	µg/L
				RFI-09-48(091208)	5 U	µg/L
				RFI-09-53(091208)	5 U	µg/L
				RFI-94-11(091208)	5 U	µg/L
VOCs	09/15/08	Toluene	0.2J	20-500R(091508)	1 U	µg/L
				RFI-10-24(091508)	1 U	µg/L
				RFI-86-16R(091508)	1 U	µg/L
VOCs	09/15/08	Methylene chloride	0.3J	20-500R(091508)	5 U	µg/L
				20-FP10R(091508)	5 U	µg/L
				RFI-10-24(091508)	5 U	µg/L
				RFI-10-26(091508)	5 U	µg/L
				RFI-10-36(091508)	5 U	µg/L
				RFI-36-14(091508)	5 U	µg/L
RFI-86-16R(091508)	5 U	µg/L				

TABLE 7
 QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK
 SITE INVESTIGATION
 GENERAL MOTORS NAO FLINT OPERATIONS
 FLINT, MICHIGAN
 SEPTEMBER 2008

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Associated Sample ID</i>	<i>Qualified Sample Result</i>	<i>Units</i>
VOCs	09/16/08	Methylene chloride	0.4J	Duplicate-3(091608)	5 U	µg/L
				RFI-81-50(091608)	5 U	µg/L
				RFI-10-28(091708)	5 U	µg/L
				RFI-10-29(091708)	5 U	µg/L
				RFI-10-33(091708)	5 U	µg/L
				RFI-36-19(091708)	5 U	µg/L
				RFI-36-48(091708)	5 U	µg/L
				RFI-36-55(091708)	5 U	µg/L
RFI-36-56(091708)	5 U	µg/L				
VOCs	09/16/08	Methylene chloride	1J	RFI-36-04(091808)	5 U	µg/L
				RFI-36-37(091808)	5 U	µg/L
				RFI-36-47(091808)	5 U	µg/L
VOCs	09/16/08	Toluene	0.1J	RFI-36-04(091808)	1 U	µg/L

Notes:

J Estimated.

U Not detected.

VOCs Volatile Organic Compounds.