



MASSENA PLANT  
P.O. Box 460  
Massena, New York  
13662-0460

June 10, 2009

Chief, New York/Caribbean Superfund Branch  
Emergency and Remedial Response Division  
U.S. Environmental Protection Agency - Region II  
290 Broadway, 19th Floor  
New York, New York 10007-1866

Attention: GM/Massena Superfund Site Project Manager

Re: General Motors-Massena Superfund Site, Massena, New York  
EPA Orders Index No. II CERCLA-20207 and 20215  
-- Monthly Progress Report No. 205 for May 2009

Dear Ms. Anne Kelly:

Enclosed please find two copies of the Monthly Progress Report relating to the activities performed during the month of May 2009, in conformance with the Unilateral Administrative Orders for both operable units of the General Motors Massena Superfund Site.

Should you or your staff have any questions regarding the contents of the Progress Report, please contact me at (315) 764-2239 or Jim Hartnett at (315) 463-2391.

Sincerely,

A handwritten signature in red ink that reads "DC Premo".

Douglas C. Premo  
GM Project Coordinator

**Monthly Progress Report No. 205 – May 2009**  
**General Motors Massena Superfund Site - Operable Units 1 & 2**  
**USEPA Unilateral Administrative Orders Nos. II CERCLA - 20207 & 20215**

**I. Compliance Activities Completed for the Period (May 1 through May 31, 2008)**

**Site Wide**

Consistent with the schedule provided in Attachment 1 in GM's letter of March 26, 2009 response to USEPA's letter of March 3, 2009; GM collected additional media samples (concrete cores, paint chip and wipe samples) within the facility from February 24, 2009 to March 5, 2009 and from April 21 to April 23, 2009. GM is currently evaluating this analytical data and will submit this data to USEPA during June 2009.

**East Disposal Area**

GM submitted the *Soil Investigation Work Plan – East Disposal Area Infield* to USEPA on August 15, 2008. The proposed sampling provides for the collection and analysis of soil samples for PCBs from an area designated as the East Disposal Area Infield. This Work Plan is designed to delineate the horizontal and vertical extents of PCBs exceeding the 10 and 500 mg/kg PCB site cleanup goals for this area. On November 23, 2008, GM received draft comments from USEPA and continued discussions with USEPA on the scope of work of the EDA investigation. On December 29, 2008, USEPA gave verbal approval of the work plan provided that the draft USEPA comments on the work plan would be incorporated into the work plan. Due to the onset of winter, the work was postponed until early summer 2009. GM is anticipating that USEPA will be sending out written approval of the work plan. Upon receipt of written approval from EPA, GM will prepare a final work plan for submittal and a schedule for performance of the field work.

**Groundwater Controls**

On May 14, 2009 GM received final comments from USEPA on the *Interim Groundwater Characterization Sampling and Analysis Report* (CDM, 2007). This report presents the validated analytical results from the November 2006 and May 2007 groundwater sampling events. The results of the study provide the necessary information to modify the groundwater remedial plans as discussed during a meeting with the government agencies on May 23, 2006. GM is revising the report and preparing to resubmit the report to USEPA along with responses to EPA's comments in June, 2009.

On September 25, 2006, GM submitted the draft *Quality Assurance Project Plan (QAPP)* to USEPA for approval. GM is awaiting approval from USEPA of this plan.

**Mohawk Uplands Soils**

The *Mohawk Upland Area Remedial Action Completion Report* was submitted to USEPA on February 6, 2008. GM is awaiting approval from USEPA of the completion report.

Access to the one remaining property of concern on the St. Regis Mohawk Tribal Reservation (the north parcel) continues to be restricted by the property owner.

**Cove Project**

On April 24, 2006, GM submitted the revised draft *Cove Remedial Action Completion Report* to USEPA for approval. GM is still awaiting USEPA's approval of this report.

**Monthly Progress Report No. 205 – May 2009**  
**General Motors Massena Superfund Site - Operable Units 1 & 2**  
**USEPA Unilateral Administrative Orders Nos. II CERCLA - 20207 & 20215**

**Maintenance Activities**

Outfall 004 (north of the Industrial Landfill) and Outfall 002 (at the Raquette River) were sampled on May 21, 2009. The analytical results for Outfall 002 and Outfall 004 are provided in Attachment I.

Also during the month of May, a total of approximately 15,630 gallons of water (approximately 4,940 gallons from the sump northeast of the Industrial Landfill and 10,690 gallons from the containment cell areas) were transferred to GM's WWTS for treatment.

**II. Analytical Data**

Analytical results received during the month of May for the GM Massena Superfund Site include the following:

- Table 1 – Summary of Outfall 002 Water Sampling Analytical Results.
- Table 2 – Summary of Outfall 004 Water Sampling Analytical Results.

**III. Project Tasks Scheduled for the Coming Month (June 2009)**

GM anticipates receiving final comments from USEPA on the *Soil Investigation Work Plan – East Disposal Area Infield*. Upon receipt of the USEPA approval letter, GM anticipates finalizing and submitting the work plan and scheduling the field work.. GM also anticipates receiving approval from USEPA on the Quality Assurance Project Plan, and the GM Site Inspection, Monitoring, and Maintenance Plan, the Cove Remedial Action Completion Report, and the Mohawk Upland Area Remedial Action Completion Report.

GM plans to resubmit the revised *Interim Groundwater Characterization Sampling and Analysis Report* to USEPA in June.

GM and USEPA have scheduled a meeting on June 11, 2009, in New York City to review the status of the remediation at the site.

**IV. Project Status, Delays and Recovery Plans**

In order to provide better visibility of submittals under review, the following table summarizes submittals made during the month, submittals responded to during the month, and submittals, which continue to be under review.

**Monthly Progress Report No. 205 – May 2009**  
**General Motors Massena Superfund Site - Operable Units 1 & 2**  
**USEPA Unilateral Administrative Orders Nos. II CERCLA - 20207 & 20215**

<u>Submitted to EPA / NYSDEC</u>	<u>Date</u>
- none -	
<u>Previously Submitted to EPA - Pending Comment or Approval</u>	
Industrial Landfill Final Design Report, Vols. I & II	Apr 27, 2001
Draft Cove Remedial Action Completion Report	Apr 24, 2006
Draft Quality Assurance Project Plan	Sept 25, 2006
Draft GM Site Inspection, Monitoring, and Maintenance Plan	Jan 26, 2007
Interim Groundwater Characterization Sampling and Analysis Report	Oct 19, 2007
Mohawk Upland Area Remedial Action Completion Report	Feb 6, 2008
Soil Investigation Work Plan East Disposal Area Infield	Aug 15, 2008
Results of 2008 Fish Collection Activities to Evaluate Fish Consumption Advisory in Remediated Cove, St. Lawrence River	Dec. 19, 2008
St. Lawrence River Monitoring & Maintenance Annual Inspection Report	Feb 2, 2009
GM Response to USEPA Request for Information Letter	Mar 26, 2009
<u>Comments/Approvals Received from EPA / NYSDEC during the Month</u>	
EPA response to the Interim Groundwater Characterization Sampling and Analysis Report	May 14, 2009

**Massena Remediation Program Report Distribution List - Government Agencies**

---

1 copy (excluding plans or reports):

Chief, New York/Caribbean Superfund Branch  
Office of Regional Counsel  
U.S. Environmental Protection Agency, Region II  
290 Broadway, 20th Floor  
New York, New York 10007-1866  
Attention: GM/Massena Superfund Site Attorney

---

2 copies (or 5 copies if plan or report):

Emergency and Remedial Response Division  
U.S. Environmental Protection Agency, Region II  
290 Broadway, 20th Floor  
New York, New York 10007-1866  
Attention: Anne Kelly

---

2 copies (or 3 if plan or report):

Mr. Ken Jock  
Environmental Director  
St. Regis Mohawk Tribe  
412 State Route 37  
Akwesasne, NY 13655

For Federal Express Packages:  
SRMT Environmental Division  
449 Frogtown Road  
Akwesasne, NY 13655

---

3 copies (or 3 copies if plan or report):

New York State Department of Environmental Conservation  
317 Washington Street  
Watertown, New York 13601-3787  
Attention: Regional Hazardous Waste Engineer – Peter Taylor, P.E.  
Peter S. Ouderkirk, P.E. (1 copy)  
Lincoln Fancher, Project Geologist (1 copy)

---

1 copy:

Wendy S. Keuhner, P.E.  
New York State Department of Health  
Flanigan Square, Room 300  
547 River Street  
Troy, New York 12180

---

1 copy:

Jim Harrington  
New York State Department of Environmental Conservation  
Bureau of Watershed Compliance Programs  
625 Broadway, 4<sup>th</sup> Floor  
Albany, New York 12233-3506

---

## **Massena Remediation Program Report Distribution List**

### **All Reports and Gov't Correspondence:**

William J. McFarland

General Motors Corporation  
GM Remediation  
Engineering Center  
MC 480-111-W60  
30200 Mound Rd  
Warren, Michigan 48090  
Phone: 248-753-5816

Lynda A Messina

General Motors Corporation  
Communication Manager  
General Motors Manufacturing & Labor Relations  
Manufacturing C Building  
Mail Code 480-108-133  
30400 Mound Road  
Warren, MI 48090  
Phone: (586) 986-9530  
Cell Phone: (313) 378-8690

Douglas C. Premo

General Motors Powertrain Group - Massena Plant  
Rt. 37 East, Box 460  
Massena, NY 13662-0460  
Phone: 315-764-2233 GM 8-344-2233  
Fax: 315-764-2297 GM 8-344-2297

James F. Hartnett

General Motors Corporation  
One General Motors Drive STE2  
Syracuse, NY 13206-1127  
Phone: 315-463-2391  
Fax: 315-482-5197

Richard G. Boelter

ARCADIS  
C/o GM Powertrain  
Route 37 East, Box 460  
Massena, NY 13662  
Phone: 315-764-2299

## ATTACHMENT 1

### Analytical Data

**Table 1**  
**Summary of Outfall 002 Water Sampling Analytical Results**  
**GM Powertrain Massena, New York**

PCBs EPA 608 - Hexane Extractable EPA 413.1 - Total Suspended Solids EPA 160.2 - Metals EPA 200.7

#	Sample ID	Date Sampled	Polychlorinated Biphenyls (PCBs) EPA 608			Oil & Grease (Hexane Extractable) EPA 1664A			Total Suspended Solids (TSS) EPA 160.2			Metals USEPA 200.7			
			Detection Limit (ug/l)	Analytical Results (ug/l)	SPDES Permit Limits (ug/l)	Detection Limit (mg/l)	Analytical Results (mg/l)	SPDES Permit Limits (mg/l)	Detection Limit (mg/l)	Analytical Results (mg/l)	SPDES Permit Limits (mg/l)	Aluminum (mg/l)	SPDES Permit Limits (mg/l)	Iron (mg/l)	SPDES Permit Limits (mg/l)
1	12760	4-Jun-07	0.051	U	0.3	1.0	< 1.00	15	1.0	5.70	50	0.179	see note 1. below	0.341	see note 1. below
2	12792	5-Jul-07	0.05	U	0.3	1.0	1.00	15	1.00	1.20	50	< 0.0500	see note 1. below	0.280	see note 1. below
3	-	No sample collected during August due to dry conditions.					-		-	-		-		-	
4	12854	27-Sep-07	0.0538	U	0.3	1.00	1.70	15	1.00	14.70	50	0.1910	see note 1. below	0.463	see note 1. below
5	12879	20-Oct-07	0.05	0.066	0.3	1.0	< 1.00	15	1.00	1.30	50	0.143	see note 1. below	0.206	see note 1. below
6	12916	15-Nov-07	0.05	U	0.3	1.0	< 1.00	15	1.00	1.50	50	< 0.0500	see note 1. below	0.532	see note 1. below
7	-	No sample collected during December due to frozen conditions.					-		-	-		-		-	
8	12966	10-Jan-08	0.0515	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	< 0.0500	see note 1. below
9	12992	18-Feb-08	0.0532	U	0.3	1.0	< 1.00	15	1.00	2.80	50	0.178	see note 1. below	0.175	see note 1. below
10	13026	4-Mar-08	0.0521	U	0.3	1.0	2.90	15	1.00	< 1.00	50	0.0537	see note 1. below	< 0.0500	see note 1. below
11	13054	3-Apr-08	0.0515	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	< 0.0500	see note 1. below
12	13079	1-May-08	0.0515	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.147	see note 1. below
13	12941	5-Jun-08	0.0526	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.083	see note 1. below
14	13143	21-Jul-08	0.0515	0.0566	0.3	1.0	< 1.00	15	1.00	1.90	50	0.0507	see note 1. below	0.345	see note 1. below
15	13171	7-Aug-08	0.0500	U	0.3	1.0	1.30	15	1.00	5.70	50	0.8830	see note 1. below	1.23	see note 1. below
16	-	No sample collected during September due to dry conditions.					-		-	-		-		-	
17	13205	27-Oct-08	0.0500	U	0.3	1.0	1.20	15	1.00	2.60	50	0.108	see note 1. below	0.242	see note 1. below
18	13258	18-Nov-08	0.0505	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.0532	see note 1. below
19	13296	2-Dec-08	0.0526	U	0.3	1.0	3.20	15	1.00	< 1.00	50	0.0560	see note 1. below	0.0600	see note 1. below
20	-	No sample collected during January due to frozen conditions.					-		-	-		-		-	
21	13347	12-Feb-09	0.0532	U	0.3	1.0	6.30	15	1.00	4.30	50	1.12	see note 1. below	1.16	see note 1. below
22	13382	12-Mar-09	0.0515	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	0.0646	see note 1. below	0.130	see note 1. below
23	13406	2-Apr-09	0.0515	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.217	see note 1. below
24	13433	21-May-09	0.0510	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.0848	see note 1. below

Notes:.

1). There is no effluent limit on metals for the SPDES Permit.

2). Analyses performed by Analytics Corporation, Inc.



**Table 2**  
**Summary of Outfall 004 Water Sampling Analytical Results**  
**GM Powertrain Massena, New York**

PCBs EPA 608 - Hexane Extractable EPA 1664A - Total Suspended Solids EPA 160.2 - Metals EPA 200.7

#	Sample ID	Date Sampled	Polychlorinated Biphenyls (PCBs) EPA 608			Oil & Grease (Hexane Extractable) EPA 1664A			Total Suspended Solids (TSS) EPA 160.2			Metals USEPA 200.7			
			Detection Limit (ug/l)	Analytical Results (ug/l)	SPDES Permit Limits (ug/l)	Detection Limit (mg/l)	Analytical Results (mg/l)	SPDES Permit Limits (mg/l)	Detection Limit (mg/l)	Analytical Results (mg/l)	SPDES Permit Limits (mg/l)	Aluminum (mg/l)	SPDES Permit Limits (mg/l)	Iron (mg/l)	SPDES Permit Limits (mg/l)
1	12761	4-Jun-07	0.0510	U	0.3	1.0	< 1.00	15	1.0	< 1.0	50	< 0.0500	see note 1. below	0.630	see note 1. below
2	12793	5-Jul-07	0.0500	U	0.3	1.0	< 1.00	15	1.0	8.70	50	< 0.0500	see note 1. below	4.490	see note 1. below
3	-	No sample collected during August due to dry conditions.					-		-	-		-		-	
4	12855	27-Sep-07	0.0521	U	0.3	1.00	1.00	15	1.0	3.40	50	0.1980	see note 1. below	0.616	see note 1. below
5	12880	20-Oct-07	0.0510	0.0694	0.3	1.00	< 1.00	15	1.00	1.80	50	0.0527	see note 1. below	0.627	see note 1. below
6	12917	06-Nov-07	0.0510	U	0.3	1.00	2.5	15	1.00	6.20	50	< 0.0500	see note 1. below	1.80	see note 1. below
7	-	No sample collected during December due to frozen conditions.					-		-	-		-		-	
8	12967	10-Jan-08	0.0510	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.167	see note 1. below
9	12993	18-Feb-08	0.0510	U	0.3	1.0	< 1.00	15	1.00	2.60	50	0.105	see note 1. below	0.178	see note 1. below
10	13027	04-Mar-08	0.0505	U	0.3	1.0	3.70	15	1.00	1.40	50	0.110	see note 1. below	0.140	see note 1. below
11	13055	03-Apr-08	0.0505	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.135	see note 1. below
12	13080	01-May-08	0.0510	U	0.3	1.0	2.10	15	1.00	1.60	50	< 0.0500	see note 1. below	0.630	see note 1. below
13	12942	05-Jun-08	0.0532	U	0.3	1.0	< 1.00	15	1.00	1.20	50	< 0.0500	see note 1. below	0.724	see note 1. below
14	13144	01-Jul-08	0.0543	U	0.3	1.0	< 1.00	15	1.00	17.80	50	< 0.0500	see note 1. below	7.10	see note 1. below
15	13172	04-Aug-08	0.0510	U	0.3	1.0	1.10	15	1.00	7.70	50	< 0.0500	see note 1. below	2.580	see note 1. below
16	13206	09-Sep-08	0.0510	U	0.3	1.0	< 1.00	15	1.00	24.70	50	0.0655	see note 1. below	1.730	see note 1. below
17	13231	09-Oct-08	0.0510	U	0.3	1.0	< 1.00	15	1.00	7.60	50	< 0.0500	see note 1. below	3.51	see note 1. below
18	13259	18-Nov-08	0.0515	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.380	see note 1. below
19	13297	02-Dec-08	0.0515	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.244	see note 1. below
20	-	No sample collected during January due to frozen conditions.					-		-	-		-		-	
21	13348	02-Feb-09	0.0500	U	0.3	1.0	2.30	15	1.00	1.60	50	0.130	see note 1. below	0.152	see note 1. below
22	13383	11-Mar-09	0.0500	U	0.3	1.0	< 1.00	15	1.00	4.40	50	0.129	see note 1. below	0.177	see note 1. below
23	13407	02-Apr-09	0.0510	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1. below	0.311	see note 1. below
24	13434	21-May-09	0.0521	U	0.3	1.0	< 1.00	15	1.00	5.70	50	< 0.0500	see note 1. below	2.75	see note 1. below

Notes:.

- 1). There is no effluent limit on metals for the SPDES Permit.
- 2). Analyses performed by Analytics Corporation, Inc.