



April 8, 2011

U.S.EPA Region II  
Emergency & Remedial Response Division  
290 Broadway, 19<sup>th</sup> Floor  
New York, NY 10007-1866  
Attn: Ms. Anne Kelly

RE: Former Central Foundry – Massena Superfund Site, Massena, New York  
EPA Orders Index No. II CERCLA-20207 and 20215 -  
Monthly Progress Report No. 227 for March 2011

Dear Ms. Kelly:

On behalf of Revitalizing Automotive Communities Environmental Response (RACER) Trust enclosed please find 2 copies of the Monthly Progress Report relating to the activities performed during the month of March 2011, in conformance with the Unilateral Administrative Orders for both operable units of the Former Central Foundry, Massena Superfund Site.

Should you or your staff have any questions regarding the contents of the Progress Report, please contact me at (201) 247-4890.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Brendan Mullen".

M. Brendan Mullen, P.E.  
New York Cleanup Manager  
RACER Trust

**Monthly Progress Report No. 227 – March 2011**  
**Former Central Foundry Massena Superfund Site - Operable Units 1 & 2**  
**USEPA Unilateral Administrative Orders Nos. II CERCLA - 20207 & 20215**

**I. Compliance Activities Completed for the Period (March 1 through March 31, 2011)**

**Remedial Design / Remedial Action**

All work tasks associated with RD/RA engineering for OU1 and OU2 have been suspended through the end of April, per USEPA request.

**Meetings**

No meetings regarding OU1 and OU2 were held in March.

**Maintenance Activities**

Implementation of MLC's Interim Corrective Measure (IRM) Plan for the Outfall 004 drainage system was initiated in February and is currently ongoing. The following activities were conducted during March:

- 3/11/11 – Prior to installation of carbon filters in the west swale per the IRM Plan, an effluent sample was collected from Outfall 004 and analyzed for PCBs to evaluate baseline conditions prior to carbon filter installation. A single silt fence at the head of the discharge culvert had been installed before this baseline sampling was conducted. This effluent sample exhibited no detectable PCBs. (see Attachment 1 for analytical results).
- 3/14/11 – A short section of rip rap was removed from the downstream end of the west swale leading to Outfall 004 and a carbon geotextile filter was installed per the IRM Plan.
- 3/15/11 – A second short section of rip rap was removed approximately 50 feet upstream in the west swale and a second carbon geotextile filter was installed per the IRM Plan. The culvert was flushed with potable water, which was collected and transported to the onsite frac tank for future treatment in the facility WWTS.
- 3/22/11 – An effluent sample was collected from Outfall 004 as required by the SPDES permit for the month of March. This sample was analyzed for PCBs, total suspended solids, oil & grease, iron and aluminum. No PCBs were detected (see Attachment 1 for analytical results).

In a letter dated March 11, 2011, MLC provided Notification of Treatment System Modifications to Shane Mitchell, NYSDEC. These modifications are for the demolition/removal action currently underway pursuant to USEPA Administrative Order.

On March 15, Rebecca Storrings from the NYSDEC Division of water conducted a SPDES inspection at the site. Results from the inspection are pending.

During March, quarterly samples from the sump northeast of the Industrial Landfill and the groundwater sump at Process Water Lagoon #2 were collected. Routine operations and maintenance of the wastewater treatment plant, as well as inspection of groundwater control systems, were conducted in March. The results are provided in Attachment 1 of this report.

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Also during the month of March, a total of approximately 152,470 gallons of water (approximately 118,720 gallons from the sump northeast of the Industrial Landfill and 24,630 gallons from the Process Water lagoon under drain, and 9,120 gallons from the containment cells) were transferred to the site's Waste Water Treatment Plant WWTP for treatment.

**II. Analytical Data**

Additional analytical results received during the month of March for the Massena Superfund Site are summarized in tables provided in Attachment 1, including the following:

- Table 1 – Summary of Outfall 002 Water Sampling Analytical Results.
- Table 2 – Summary of Outfall 004 Water Sampling Analytical Results.
- Table 3 – Summary of Quarterly Water Samples NE Industrial Landfill Groundwater Sump
- Table 4 – Groundwater Sump Process Water Lagoon #2 Water Analytical Results.

In addition to the analytical summarized in Attachment 1, Samples were collected at Outfall 002 and 004 for analysis of BOD5, COD, total organic nitrogen, ammonia, temperature, ph, 13 priority pollutant metals, total cyanide, total phenols, volatiles acid compounds, base neutrals, PCB Congener. Some of these analytical results are still pending. A summary table of these analyses will be provided during a subsequent Monthly Progress Report.

**III. Project Tasks Scheduled for the Coming Month (April 2011)**

Soil pile sampling will commence near the end of April, weather and thaw conditions permitting. Scoping and budget preparation for May through December remedial work will be conducted during April.

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

The following table summarizes submittals made during the month, submittals responded to during the month, and submittals which continue to be under review.

<b><u>Submitted to EPA / NYSDEC</u></b>	<b><u>Date</u></b>
Notification to NYSDEC of Treatment System Modifications	March 11, 2011
<b><u>Previously Submitted to EPA / NYSDEC – Pending Comment or Approval</u></b>	
Draft Remedial Action Waste Management Plan	January 7, 2010
Draft Preliminary Remedial Design / Remedial Action Work Plan Combined East Disposal Area and Industrial Landfill	February 8, 2010
Draft Preliminary Remedial Design/Remedial Action Work Plan for the North Disposal Area and Active/Inactive Lagoons for the Central Foundry Site, Massena, NY	March 8, 2010

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<b><u>Previously Submitted to EPA / NYSDEC – Pending Comment or Approval (cont'd)</u></b>	
Draft Preliminary Remedial Design/Remedial Action Work Plan Groundwater Collection and Treatment System	March 8, 2010
Draft Preliminary Remedial Design/Remedial Action Work Plan for the Combined EDA and Industrial Landfill for the Central Foundry Site	April 7, 2010
<b><u>Comments/Approvals Received from EPA/NYSDEC during the current Reporting Month</u></b>	
None	-

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**Former Central Foundry Massena Superfund Site - Operable Units 1 & 2**  
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**ATTACHMENT 1**

**Analytical Data**

Table 1

Summary of Outfall 002 Water Sampling Analytical Results  
Former GM Central Foundry Massena Superfund Site, 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			Hexane Extractable (Oil & Grease) 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	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
2	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
3	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
4	-	No stormwater runoff at Outfall when checked													
5	13529	6-Aug-09	0.0515	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	0.0748	see note 1, below	0.2340	see note 1, below
6	13564	15-Sep-09	0.0521	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.0885	see note 1, below
7	13598	8-Oct-09	0.0520	U	0.3	1.00	2.30	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.1430	see note 1, below
8	13632	3-Nov-09	0.0515	U	0.3	1.00	7.70	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.1880	see note 1, below
9	13667	3-Dec-09	0.0515	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	0.3550	see note 1, below	0.3790	see note 1, below
10	13700	7-Jan-10	0.0500	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.1640	see note 1, below
11	13730	2-Feb-10	0.0500	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.0745	see note 1, below
12	13765	1-Mar-10	0.0526	U	0.3	1.00	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	< 0.0500	see note 1, below
13	13795	8-Apr-10	0.0532	U	0.3	1.0	< 1.00	15	1.00	1.00	50	< 0.0500	see note 1, below	0.188	see note 1, below
14	13828	6-May-10	0.0526	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.188	see note 1, below
15	13859	3-Jun-10	0.0500	U	0.3	1.0	2.30	15	1.00	4.50	50	< 0.0500	see note 1, below	< 0.0500	see note 1, below
16	13900	1-Jul-10	0.0505	U	0.3	1.0	2.10	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.420	see note 1, below
17	13931	5-Aug-10	0.0500	U	0.3	1.0	< 1.00	15	1.00	1.10	50	0.0612	see note 1, below	0.149	see note 1, below
18	13963	30-Sep-10	0.0500	U	0.3	1.0	< 1.00	15	1.00	3.00	50	< 0.0500	see note 1, below	0.235	see note 1, below
19	14000	1-Oct-10	0.0500	U	0.3	1.0	2.30	15	1.00	1.70	50	0.2030	see note 1, below	0.286	see note 1, below
20	14031	4-Nov-10	0.0500	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	< 0.0500	see note 1, below	0.350	see note 1, below
21	14060	2-Dec-10	0.0510	U	0.3	1.0	< 1.00	15	1.00	< 1.00	50	0.0763	see note 1, below	0.1050	see note 1, below
22	480-651-1	6-Jan-11	0.057	0.12	0.3	4.9	ND	15	4.0	ND	50	ND	see note 1, below	0.28	see note 1, below
23	480-1811-1	17-Feb-11	0.061	0.01	0.3	5.0	ND	15	4.0	ND	50	ND	see note 1, below	0.18	see note 1, below
24	Outfall 002	10-Mar-11	0.061	U	0.3	1.0	4.8	15	1.00	ND	50	ND	see note 1, below	0.10	see note 1, below

Notes:  
1). ND means Non-detection. There is no effluent limit on metals for the SPDES Permit.  
2). Analyses performed by TestAmerica, Buffalo, NY

**Table 2**  
**Summary of Outfall 004 Water Sampling Analytical Results**  
**Former GM Central Foundry Massena Superfund Site, 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	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
2	13434	21-May-09	0.0521	U	0.3	1.0	<1.00	15	1.00	<1.00	50	<0.0500	see note 1. below	2.75	see note 1. below
3	13469	30-Jun-09	0.0515	U	0.3	1.0	<1.00	15	1.00	<1.00	50	<0.0500	see note 1. below	10.80	see note 1. below
4	13530	06-Aug-09	0.0510	U	0.3	1.0	<1.00	15	1.00	<1.00	50	<0.0500	see note 1. below	4.74	see note 1. below
5	13565	15-Sep-09	0.0521	U	0.3	1.0	2.30	15	1.00	4.40	50	<0.0500	see note 1. below	7.59	see note 1. below
6	13599	13-Oct-09	0.0510	U	0.3	1.0	<1.00	15	1.00	7.80	50	<0.0500	see note 1. below	3.44	see note 1. below
7	13633	03-Nov-09	0.0515	U	0.3	1.0	<1.00	15	1.00	1.10	50	<0.0500	see note 1. below	0.489	see note 1. below
8	13668	03-Dec-09	0.0521	U	0.3	1.0	<1.00	15	1.00	4.00	50	0.8130	see note 1. below	0.868	see note 1. below
9	13701	07-Jan-10	0.0500	U	0.3	1.0	<1.00	15	1.00	2.50	50	<0.0500	see note 1. below	1.00	see note 1. below
10	13731	02-Feb-10	0.0500	U	0.3	1.0	<1.00	15	1.00	3.30	50	<0.0500	see note 1. below	1.29	see note 1. below
11	13766	04-Mar-10	0.0526	U	0.3	1.0	<1.00	15	1.00	<1.00	50	<0.0500	see note 1. below	0.162	see note 1. below
12	13796	08-Apr-10	0.0500	U	0.3	1.0	<1.00	15	1.00	4.00	50	<0.0500	see note 1. below	1.44	see note 1. below
13	13829	06-May-10	0.0500	U	0.3	1.0	<1.00	15	1.00	3.50	50	<0.0500	see note 1. below	1.00	see note 1. below
14	13860	03-Jun-10	0.0500	U	0.3	1.0	1.10	15	1.00	5.80	50	0.0641	see note 1. below	1.46	see note 1. below
15	13901	01-Jul-10	0.0505	U	0.3	1.0	<1.00	15	1.00	7.20	50	<0.0500	see note 1. below	3.650	see note 1. below
16	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
17	13932	26-Aug-10	0.0500	U	0.3	1.0	<1.00	15	1.00	14.20	50	<0.0500	see note 1. below	5.210	see note 1. below
18	13964	30-Sep-10	0.0500	U	0.3	1.0	<1.00	15	1.00	6.40	50	<0.0500	see note 1. below	2.430	see note 1. below
19	14001	1-Oct-10	0.0500	U	0.3	1.0	3.50	15	1.00	1.70	50	0.1520	see note 1. below	0.221	see note 1. below
20	14032	04-Nov-10	0.0515	U	0.3	1.0	<1.00	15	1.00	2.00	50	<0.0500	see note 1. below	0.075	see note 1. below
21	480-651-2	6-Jan-11	0.29	1.7	0.3	5.0	ND	15	4.0	ND	50	ND	see note 1. below	1.2	see note 1. below
22	004 Outfall	10-Feb-11	11.00	14	0.3	5.0	ND	15	4.0	6.0	50	ND	see note 1. below	2.6	see note 1. below
23	004 Outfall	11-Mar-11	0.062	U	0.3	Parameter not tested			Parameter not tested			Parameter not tested			Parameter not tested
24	004 Outfall	22-Mar-11	0.063	U	0.3	5.0	ND	15	4.0	ND	50	ND	see note 1. below	0.21	see note 1. below

Notes:

- 1). ND means Non-detection. There is no effluent limit on metals for the SPDES Permit.
- 2). Analyses performed by Analytix Corporation, Inc.

**Table 3**  
**Former GM Massena Facility**  
**Quarterly Water Samples**  
**NE Industrial Landfill Groundwater Sump**  
**PCB and Phenolics Analytical Results**

USEPA Method SW 846 608 and 420.1

#	Sample ID	Sample Date	PCBs Detection Limit (ug/L)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (ug/L)	Total Phenolics Detection Limit (ug/L)	Total Phenolics (ug/L)
1	090805-KC-001	8-Sep-05	1.6	16	U	U	U	U	U	U	16.0	5.0	U
2	122005AM-001DL	20-Dec-05	1.6	U	U	U	17.0	U	U	U	17.0	5.0	U
3	032106MP-002	21-Mar-06	1.3	U	U	U	13.0	U	U	U	13.0	5.0	U
4	061406MP-002	14-Jun-06	0.065	U	U	U	0.48	U	U	U	0.48	5.0	U
5	091206GD-002DL	12-Sep-06	3.2	UY	U	U	34 D	U	U	U	34 D	5.0	U
6	122006MP-002DL	20-Dec-06	1.6	U	U	U	19 D	U	U	U	19 D	5.0	U
7	031307MN-002DL	13-Mar-07	3.2	U	U	U	25 D	U	U	U	25 D	5.0	U
8	SNEIL-05232007-003	23-May-07	1.6	U	U	U	22	U	U	U	22	2.0	4.8
9	100207RB-002DL	2-Oct-07	3.2	U	U	U	17 D	U	U	U	17 D	5.0	U
10	121007RB-002	10-Dec-07	3.2	U	U	U	20 D	U	U	U	20 D	5.0	U
11	32708RB-002	27-Mar-08	1.6	U	U	U	16 D	U	U	U	16 D	5.0	6.7
12	SSNEIL 062508-002	25-Jun-08	6.5	U	U	U	45 D	U	U	U	45 D	5.0	6.7
13	ILF 100108-002	1-Oct-08	6.5	U	U	U	27 D	U	U	U	27 D	5.0	U
14	ILF 121008-002DL	10-Dec-08	1.6	U	U	U	26 D	U	U	U	26 D	5.0	6.6
15	ILF032509-002DL	25-Mar-09	0.65	U	U	U	14 D	U	U	U	14 D	5.0	U
16	ILF062409-001DL	24-Jun-09	0.65	U	U	U	15 D	U	U	U	15 D	5.0	U
17	ILF090909-002DL	9-Sep-09	0.65	U	U	U	14 D	U	U	U	14 D	5.0	U
18	ILF122809-002DL	28-Dec-09	0.65	U	U	U	22 D	U	U	U	22 D	5.0	U
19	ILF033010-002DL	30-Mar-10	1.6	U	U	U	37 D	U	U	U	37 D	5.0	U
20	ILF062310-002	23-Jun-10	1.6	U	U	U	23.0	U	U	U	23.0	40.0	6 B, J
21	ILF092910-002	29-Sep-10	0.65	U	U	U	U	19	U	U	19.0	40.0	U
22	ILF031611-002	16-Mar-11	1.3	U	U	U	27.0	U	U	U	27.0	40.0	38 B

**Notes:**

All results reported in units of micrograms per liter (ug/L) for PCBs and Phenolics; U = Non-detect; D = Diluted Sample  
Y = AR 1016, if present is included in the value reported for AR1242      B = Estimated result. Result is less than RL  
J = Method Blank contamination. The associated method blank contains the target analyte at a reportable level.

**Table 4**  
**Former GM Massena Facility**  
**Groundwater Sump Process Water Lagoon #2**  
**PCB Analytical Results**

USEPA Method SW 846 608 - All results reported in ug/L.

#	Sample ID	Sample Date	Detection Limit	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
1	PW#2 2-11-04	11-Feb-04	0.05	U	U	U	2.17	U	U	U	2.17
2	PW#2 2-18-04	18-Feb-04	0.05	U	U	U	U	U	U	U	U
3	PW#2 2-24-04	24-Feb-04	0.05	U	U	U	U	U	U	U	U
4	PW#2 5-26-05	26-May-05	0.05	U	U	U	U	U	U	U	U
5	PW#2 3-29-06	29-Mar-06	0.0526	U	U	U	U	U	U	U	U
6	121007RBIL-003	10-Dec-07	0.065	U	U	U	0.16	U	U	U	0.16
7	32708RB-001	27-Mar-08	0.065	U	U	U	0.17	U	U	U	0.17
8	IAL 062508-003	25-Jun-08	0.065	U	U	U	0.18 P	U	U	U	0.18 P
9	IAL 100108-001	1-Oct-08	0.065	U	U	U	0.19 P	U	U	U	0.19 P
10	IAL 121008-001	10-Dec-08	0.065	U	U	U	0.78	U	U	U	0.78
11	IAL 032509-001	25-Mar-09	0.065	U	U	U	0.25	U	U	U	0.25
12	IAL 062409-001	24-Jun-09	0.065	U	U	U	0.54	U	U	U	0.54
13	IAL 090909-001	9-Sep-09	0.065	U	U	U	0.27 P	U	U	U	0.27 P
14	IAL 122809-001	28-Dec-09	0.065	U	U	U	2.5 D	U	U	U	2.5 D
15	IAL 033010-001	30-Mar-10	0.065	U	U	U	0.16 P	U	U	U	0.16 P
16	IAL062310-001	23-Jun-10	0.32	U	U	U	1.3	U	U	U	1.3
17	IAL092910-001	29-Sep-10	0.65	U	U	U	0.33	U	U	U	0.33
18	IAL031611-001	16-Mar-11	0.65	U	U	U	U	U	U	U	U

**Notes:**

All results reported in units of micrograms per liter (ug/L); U = Non-detect.

P = Indicates when there is greater than 25% difference for detected concentrations between the 2 GC columns. The lower of the 2 values is reported.

D = Indicates diluted sample.

**Massena Remediation Program Report Distribution List**

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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

---

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Attention: Regional Hazardous Waste Engineer – Peter Taylor, P.E.  
Peter S. Ouder Kirk, P.E. (1 copy)  
Lincoln Fancher, Project Geologist (1 copy)

---

1 copy:

Wendy S. Keuhner, P.E.  
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