### RCRA FACILITY INVESTIGATION AND CERCLA REMOVAL ACTION

## QUARTERLY PROGRESS REPORT #49 SECOND QUARTER 2013

GM CETC - BEDFORD FACILITY 105 GM DRIVE BEDFORD, INDIANA

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Prepared For: General Motors LLC

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#### 1.0 INTRODUCTION

This Quarterly Progress Report is submitted by General Motors LLC (GM) in accordance with the Bedford Performance-Based Corrective Action Agreement (Agreement), executed on March 20, 2001, and modified on October 1, 2002, March 29, 2007, and May 9, 2008; and in accordance with the Administrative Order on Consent (AOC) for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. SS 9604, 9606(a), 9607, and 9622 (United States Environmental Protection Agency (U.S. EPA) Docket No.: V-W-'03-C-747) effective July 31, 2003, as amended for quarterly reporting by U.S. EPA approval, September 14, 2012. This report covers the period of the second calendar quarter of 2013 for the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Project and the CERCLA Removal Action (RA) at the GM Castings, Engines, Transmissions, and Components (CETC; formerly Powertrain) – Bedford Facility (Facility) and select surrounding properties (Site), Bedford, Indiana.

The next RCRA/CERCLA quarterly progress report covering the Third Quarter of 2013 will be submitted on or before October 15, 2013.

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#### 2.0 <u>LIST OF COMPLETED ACTIVITIES</u>

The following activities took place and the following documents were prepared and distributed during this quarter:

- Maintenance of storm water and erosion controls continued on an as-needed basis.
- Creek bed sealing and restoration work at Spring 018 was completed by March 31, 2013, and the creek was allowed to flow through its natural path starting April 1, 2013.
  - A memorandum proposing a suspension of collection and treatment of Spring 018 waters was sent to U.S. EPA and IDEM on June 26, 2012. On June 6, 2013, U.S. EPA commented on the memorandum and suggested amendments to the work. Responses to the June 6, 2013 comments were submitted to U.S. EPA and IDEM on June 18, 2013. U.S. EPA and IDEM approved the June 26, 2012 memorandum and June 18, 2013 amendments, and the collection of Spring 018 treatment water was suspended starting June 19, 2013. Further detail regarding the "stand-by" and restart requirements and procedures will be prepared.
  - Sample results from SES's water treatment system during the reporting period are provided in Table 2.1. Samples will be collected for the next reporting period in August 2013.
  - Results for samples collected from Spring 018 during the quarter are presented in Table 2.2. Sample results for the monthly sampling were previously emailed to U.S. EPA and IDEM.
- SES's on-Site water treatment plant was sampled in April and June 2013 in accordance with the monitoring schedule.
- The restoration design for the two remaining properties west of Peerless Road (Parcels 40 and 81) was completed and construction began June 21, 2013.
- A memorandum of the results from downhole geophysical testing of coreholes along the proposed alignment for the East Plant Area Groundwater Collection Trench was submitted to the U.S. EPA and IDEM on May 8, 2013.
- A memorandum of the EI CA750 results from the second semi-annual 2012 monitoring event were submitted to the U.S. EPA and IDEM on April 12, 2013.
- The quarterly static groundwater level measurements for the EI CA750 monitoring were completed in July 2013.

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- Additional drilling for the soil investigation on Parcels 400, 430, and 431 was completed May 7-9, 2013.
- Representatives from GM, U.S. EPA, IDEM, and CRA met on June 12, 2013, in Chicago, Illinois, and by conference call, for the 2013 Annual Project Status Meeting. The meeting reviewed tasks completed in the last year and the proposed schedule of completion for tasks this year.
- Fact Sheet 36 was published on June 14, 2013.
- Public and Community Liaison Panel (CLP) meetings were held on June 20, 2013, to provide an update of the project and address questions and concerns from local residents. The Bedford Times Mail published an article on the meeting on June 21, 2013.
- Conference calls were held with U.S. EPA and IDEM on April 11 and 25, May 8 and 23, and June 27, 2013, to discuss items related to the RA and the design and construction of the East Plant Area Interim Measures (IM).
- On-Site construction meetings for the reporting period have been held informally daily and formally as needed. During this maintenance period, formal SES construction meetings were held on April 9, May 14, and June 4, 2013. Tailgate safety meetings are held daily for both the consultant and the contractor.
- The RCRA/CERCLA Quarterly Progress Report #48, covering the first Quarter of 2013, was submitted to the U.S. EPA and IDEM on April 12, 2013.

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#### 3.0 SUMMARIES OF ALL ANTICIPATED PROBLEMS AND PLANNED RESOLUTIONS

There were no anticipated problems for this quarter

#### 4.0 SUMMARIES OF ALL CHANGES MADE IN THE CORRECTIVE ACTION (CA) DURING THE REPORTING PERIOD

The following changes were made to the CA during the reporting period:

- The Bailey's Branch Creek by-pass around Spring 018 was closed and flow was allowed to return to the restored creek bed starting on April 1, 2013.
- The restoration design for the two remaining properties west of Peerless Road (Parcels 40 and 81) was completed and issued for construction on June 12, 2013.
- Publication of Fact Sheet 36 on June 14, 2013.
- Public and Community Liaison Panel (CLP) meetings were held on June 20, 2013, to provide an update of the project and address questions and concerns from local residents. The Bedford Times Mail published an article on the meeting on June 21, 2013.
- U.S. EPA and IDEM approved the suspension of the Spring 018 water treatment on June 19, 2013. Water from Spring 018 was allowed to flow into Bailey Scale's Creek starting on June 20, 2013.

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#### 5.0 <u>COMMUNITY RELATIONS</u>

The telephone number for public contact is 812-277-8954 (Katie Kamm, CRA). Individual meetings can be arranged to discuss project progress with residents as requested.

The next neighborhood/public meeting and CLP meetings are tentatively scheduled for the end of 2013. Presentations for past meetings are posted on the GM website at <a href="https://www.bedfordpowertraincorrectiveaction.com">www.bedfordpowertraincorrectiveaction.com</a>.

The document repository has been restored at the Bedford Public Library, with relevant project related documents available on compact disc (CD) in PDF format. Information will be updated periodically, as new documents become available. All data located in the Library repository can also be found on the aforementioned website.

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#### 6.0 CHANGES IN PERSONNEL DURING THE REPORTING PERIOD

Primary oversight personnel for CRA and Sevenson Environmental Services (SES) remain unchanged. Workers were mobilized during the fourth quarter 2012 in support of the Spring 018 concrete sealing construction activities were de-mobilized during the second quarter of 2013. Sevenson remobilized workers for the Parcel 40 restoration west of Peerless Road. Some personnel remained on-site throughout the quarter for routine site monitoring and maintenance and other site related projects as they occur.

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#### 7.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD

Work anticipated for the next reporting period includes:

- Continue maintenance of erosion controls as needed of the East Plant Area Cover System
- Prepare additional documentation for the procedures and requirements for the Spring 018 treatment system's "stand-by" state to be discussed further with U.S. EPA and IDEM.
- Submit the modified design documents for the Parcel 40/81 restoration to U.S. EPA and IDEM
- Sample SES's on-Site water treatment plant in August 2013 in accordance with the monitoring schedule
- The restoration construction for the two remaining properties west of Peerless Road (Parcels 40 and 81) will continue in the third quarter of 2013
- Submit the report outlining the results of the 2012 inspection of the Parcel 22 restoration south of Broomsage Road
- The next round of EI CA750 static groundwater level measurements and water quality samples are scheduled to be completed in July 2013
- Submit the EI CA750 results from the first semi-annual 2013 monitoring event
- Submit the memorandum summarizing the soil investigation on Parcels 400, 430, and 431
- Submit the East Plant Area Vault Construction Certification Report
- Submit the 2012 Annual Compliance Report for the Vault

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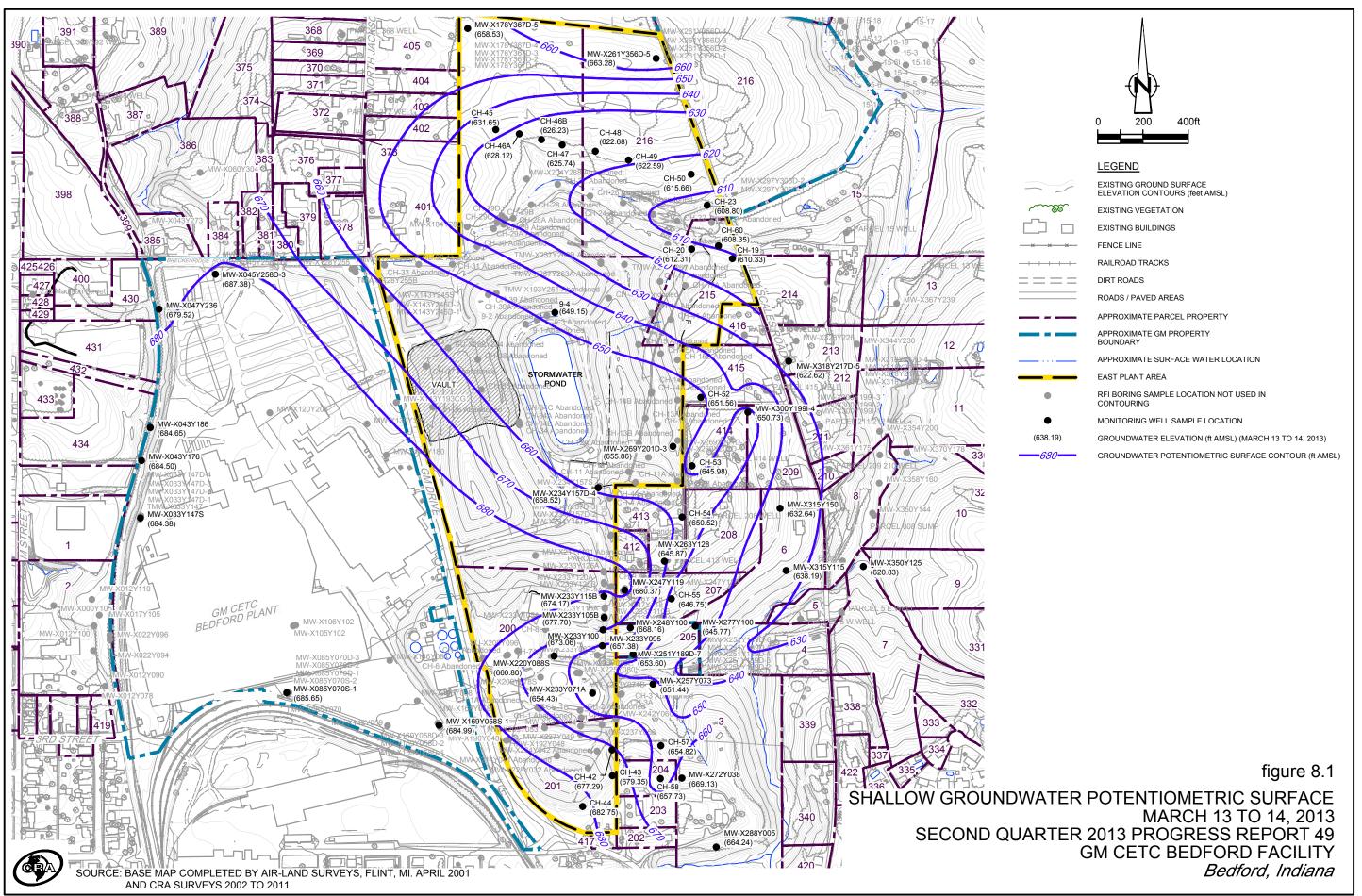
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### 8.0 COPIES OF DAILY REPORTS, INSPECTION REPORTS, LABORATORY/MONITORING DATA

Tables 2.1 and 2.2 present results from the SES on-Site water treatment plant and Spring 018, respectively.

Figure 8.1 presents the potentiometric surface water elevations collected in March 2013 during the EI CA750 groundwater static water level monitoring conducted for the first quarter.

Additional packages of analytical data were submitted to U.S. EPA once the validated data became available. Validated data will continue to be submitted as it becomes available.



**TABLE 2.1** 

# SES TREATMENT SYSTEM #1 SAMPLING RESULTS - APRIL/JUNE 2013 GM CETC BEDFORD FACILITY BEDFORD, INDIANA

Sample Date	Analysis	Influent	After Sand Filter 1	After Sand Filter 2	Between Carbons 1 & 3	Between Carbons 2 & 4	Effluent
04/17/13	PCB (ug/L)	0.076 J	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)
	Turbidity (NTU)	11.9	6.49	7.27	0.04	<0.00	<0.00
06/20/13	PCB (ug/L)	0.069 J	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
	Turbidity (NTU)	11.8	3.47	1.86	2.11	2.24	2.23

#### Note:

ND - Non detect

<sup>1)</sup> Bag filters were removed during maintenance/repair of the WTP in April 2010. Effluent now occurs after the final carbon filter

J - Estimated Value

**TABLE 2.2** 

#### SPRING 018 SAMPLING RESULTS - MARCH/APRIL/MAY/JUNE 2013 GM CETC BEDFORD FACILITY BEDFORD, INDIANA

Sample Location Sample Identification Sample Date Sample Type PCBs	Units	Spring 018C SW-015-031313-GS-39940 3/13/2013	Spring 018C SW-015-031313-GS-39941 3/13/2013 Duplicate	Spring 018C SW-015-041013-GS-39942 4/10/2013	Spring 018C SW-015-050813-GS-39953 5/8/2013	Spring 018C SW-015-061213-SA-39956 6/12/2013 Draft
Aroclor-1016 (PCB-1016)	ug/L	0.19 U	0.19 UJ	0.19 U	0.21 U	0.19 U
Aroclor-1221 (PCB-1221)	ug/L	0.19 U	0.19 UJ	0.19 U	0.21 U	0.19 U
Aroclor-1232 (PCB-1232)	ug/L	0.19 U	0.19 UJ	0.19 U	0.21 U	0.19 U
Aroclor-1242 (PCB-1242)	ug/L	0.19 U	0.19 UJ	0.19 U	0.21 U	0.19 U
Aroclor-1248 (PCB-1248)	ug/L	0.12 J	0.19 UJ	0.22	0.21	0.19 U
Aroclor-1254 (PCB-1254)	ug/L	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1260 (PCB-1260)	ug/L	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Total PCBs	ug/L	0.12	ND	0.22	0.21	ND
General Chemistry						
Total suspended solids (TSS)	ug/L	5000	3000 J	4000 U	5000	2000 J

#### Notes:

U - Not present at or above the associated value.

J - Result is less than the RL (reporting limit) but greater than or equal to the MDL (method detection limit) and the concentration is an estimated value. June 12, 2013 Sampling Results are unvalidated