



**QUARTERLY TECHNICAL PROGRESS REPORT  
JULY 2010 – SEPTEMBER 2010  
RCRA CORRECTIVE ACTION  
IND 980 700 801**

**2915 DR. MARTIN LUTHER KING JR. BOULEVARD  
MOTORS LIQUIDATION COMPANY, ANDERSON, INDIANA**

**Prepared For:  
Indiana Department of Environmental Management**

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## **1.0 INTRODUCTION**

Conestoga-Rovers and Associates (CRA), on behalf of Motors Liquidation Company (MLC), has prepared this Quarterly Technical Progress Report for the MLC Facility located at 2915 Dr. Martin Luther King Junior Boulevard in Anderson, Indiana (Facility or Site). This Quarterly Technical Progress Report has been prepared to summarize activities related to the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), Interim Measures activities, and Corrective Measures (CM) at the Facility for the period of July through September 2010.

## **2.0 SUMMARY OF RFI, INTERIM MEASURES, AND CORRECTIVE MEASURES ACTIVITIES**

### **2.1 RCRA FACILITY INVESTIGATION/ENVIRONMENTAL INDICATORS DETERMINATION**

RFI activities conducted during this reporting period are related to IDEM's comments on the Final RFI Report (EarthTech and ENVIRON, September 2007) and several comment response documents between MLC (formerly known as General Motors Corporation) and IDEM. Remaining items to be addressed include presented in the Final RFI Report and further evaluation of the potential risk due to groundwater volatilization to indoor air.

A summary of the RFI activities conducted during this reporting period is provided in the following paragraphs.

On July 2, 2010, CRA submitted a Vapor Intrusion (VI) Study Work Plan to IDEM. The VI Study Work Plan included the installation of deep soil and sub-slab vapor probes within the southwest corner of the former Plant 9 building, and groundwater, soil vapor, indoor air and outdoor air sampling to provide: 1) a direct basis for assessing vapor intrusion to indoor air at the only building where volatile organic compound (VOC) impacted groundwater could potentially pose a vapor intrusion threat, and 2) provide site-specific data to support modification of IDEM's generic attenuation coefficients to support the site-specific risk assessment provided in the Final RFI Report.

On August 4, 2010, a street level survey was conducted to determine if the residences in close proximity to the Site, east of Dr. Martin Luther King Jr. Boulevard, had basements or crawlspaces that would need to be considered when evaluating potential exposure from groundwater volatilization to indoor air. This inspection was conducted in

response to IDEM's comments on the Vapor Intrusion Study Work Plan. The street level survey concluded that it was probable that three of the four residences inspected were constructed with basements or crawlspaces.

The RFI activities are considered 95-percent complete.

## **2.2 INTERIM MEASURES**

On July 6, 2010, AECOM submitted the 2009 Annual Groundwater Monitoring Report to IDEM, summarizing the groundwater and surface water activities performed in 2009 in accordance with the draft Site-Wide Groundwater Monitoring Plan (AECOM, March 2008).

On August 4, 2010, three surface water samples, including one field duplicate, were collected at the irrigation pond at the Meadowbrook Golf Course in accordance with the Groundwater Monitoring Plan.

On August 13, 2010, AECOM submitted the revised Site-Wide Groundwater Monitoring Plan (AECOM, July 2010) to IDEM to formally incorporate IDEM's May 2, 2008 and March 16, 2010 comments on the draft Site-Wide Groundwater Monitoring Plan. The objectives of the groundwater monitoring program are to evaluate the effectiveness of corrective measures (CM) for groundwater, once implemented, and monitor the stability of the two volatile organic compound (VOC) plumes.

Interim groundwater monitoring and reporting is ongoing. Other interim measures activities, as described in the draft Corrective Measures Proposal (CRA, March 2008) are considered 100-percent complete.

## **2.3 CORRECTIVE MEASURES**

No corrective measures activities were conducted during this reporting period. With the exception of submittal of the draft Corrective Measures Proposal, the corrective measures activities have not commenced and are considered 0-percent complete.

### **3.0 SUMMARY OF FINDINGS**

The street level survey of residences east of Dr. Martin Luther King Jr. Blvd. on August 4, 2010 concluded that it was probable that three of the four residences of interest were constructed with basements or crawlspaces.

The surface water samples collected on August 4, 2010 at Meadowbrook Golf Course exhibited detectable concentrations of vinyl chloride ranging from 4.0 to 5.1 micrograms per liter (ug/L). The sample collected from the Pond Intake exhibited a detectable concentration of cis-1,2-dichloroethene of 5.8 ug/L. No other analyzed parameters were detected above the associated reporting limits. The concentrations of vinyl chloride and cis-1,2-dichloroethene are below the site-specific residential non-potable groundwater use criteria.

### **4.0 SUMMARY OF CHANGES TO RFI, INTERIM AND/OR CORRECTIVE MEASURES**

In correspondence to IDEM dated January 28, 2010, MLC agreed to modify the Final RFI Report as requested in IDEM's 13 comments on toxicity criteria dated October 27, 2009. It is anticipated that the requested revisions to the Final RFI Report will be submitted to IDEM in the fourth quarter of 2010.

Based on IDEM's March 16, 2010 request, MLC has modified the Site-Wide Groundwater Monitoring Plan. The revised Site-Wide Groundwater Monitoring Plan was submitted to IDEM on August 13, 2010.

### **5.0 SUMMARY OF CONTACTS WITH REPRESENTATIVES OF LOCAL COMMUNITY, PUBLIC INTEREST GROUPS, OR STATE GOVERNMENT**

Ongoing communications with the City of Anderson (City) personnel regarding Right-of-Way Permits and related maintenance bond for wells on City property.

On September 27, 2010 AECOM met with representatives of the former Plant 9 property owner to discuss the upcoming activities on the former Plant 9 property including the installation of monitoring wells, groundwater sampling, and implementation of the Vapor Intrusion Study Work Plan.

On October 1, 2010, MLC received a Notice of Deficiency from IDEM related to the revised Site-Wide Groundwater Monitoring Plan.

## **6.0 SUMMARY OF PROBLEMS OR POTENTIAL PROBLEMS**

No problems were encountered during the reporting period.

## **7.0 ACTIONS TAKEN TO RECTIFY PROBLEMS**

No problems were encountered during the reporting period.

## **8.0 CHANGES IN PERSONNEL**

There were no changes to personnel during the reporting period.

## **9.0 PROJECTED WORK FOR OCTOBER THROUGH DECEMBER 2010**

Projected work for October through December 2010 includes the following:

- Site-wide hydraulic monitoring event
- Installation of new monitoring wells in accordance with the Groundwater Monitoring Plan
- One-time groundwater sampling of newly installed wells for VOC analyses
- One-time groundwater sampling of a subset of the Site's monitoring wells for metals analyses
- Semi-annual groundwater sampling in accordance with the Groundwater Monitoring Plan
- Fall surface water sampling in accordance with the Groundwater Monitoring Plan
- Preparation and submittal of revisions to the Final RFI Report to address revisions to the toxicity data
- Preparation of a response to the October 1, 2010 Notice of Deficiency received from IDEM
- Revision to the Groundwater Monitoring Plan in response to the Notice of Deficiency received from IDEM

## 10.0 REPORTS AND DATA

The Vapor Intrusion Study Work Plan was submitted to IDEM on July 2, 2010.

The 2009 Annual Groundwater Monitoring Report was submitted to IDEM on July 6, 2010.

The Quarterly Technical Progress Report for April through June 2010 was submitted to IDEM on July 22, 2010.

The revised Groundwater Monitoring Plan was submitted to IDEM on August 13, 2010.

The validated surface water data generated during this reporting period will be submitted with the 2010 Annual Groundwater Monitoring Report.