



Transmitted via E-mail

Peter Quackenbush
Michigan Department of Environmental Quality, RMD
525 West Allegan Street
Constitution Hall, North Atrium
Lansing, Michigan 48909-7741

Subject:

Quarterly Progress Report – 4th Quarter 2012
Lansing Plants 2, 3, and 6 Industrial Land
USEPA I.D.s MID980700827 and MID005356928
2801 West Saginaw St., 2800 West Saginaw St., and 401 Verlinden St.
Lansing, Michigan

Dear Mr. Quackenbush:

ARCADIS is submitting this Quarterly Progress Report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the Lansing Plants 2, 3, and 6, Industrial Land, in Lansing, Michigan (the Sites). This Quarterly Progress Report covers the period of October 1, 2012 through December 31, 2012. The following briefly summarizes the data collected, work performed, problems encountered and project schedule for various activities. The activities discussed in this report were completed in accordance with the approved Resource Conservation and Recovery Act Facility Investigation (RFI) Work Plan (ARCADIS, August 2011) and the RFI Phase 2 Work Plan (ARCADIS, March 12, 2012)

Data Collected During the 4th Quarter of 2012

The samples identified below were collected during the 4th Quarter of 2012. Summary tables of the data from samples collected during the 4th quarter of 2012 will be provided in the Phase 2 Investigation Summary report scheduled to be completed during the 1st quarter 2013.

Imagine the result

ARCADIS G&M of Michigan, LLC
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810 229 8594
Fax 810 229 8837
www.arcadis-us.com

ENVIRONMENT

Date:
January 15, 2013

Contact:
Amy Hoeksema

Phone:
810.225.1911

Email:
Amy.Hoeksema@arcadis-us.com

Our ref:
B0064479.2012
B0064480.2012
B0064481.2012

Plant 2

- Between October 11, 2012 and October 19, 2012 a total of 24 soil samples were collected from the PCB vault area. The samples were analyzed for Volatile Organic Compounds (VOCs) and Polychlorinated Biphenyls (PCBs).
- On November 6 and 7, 2012, the approved Stormwater Sampling Work Plan was completed at the Site. One groundwater sample was collected from the Plant 2 outfall structure located on Plant 2 south of Saginaw Avenue. A second sample was collected from an outfall structure associated with Plant 2 northwest of Plant 3; both were tested for Target Compound List (TCL) VOCs, TCL Semi-Volatile Organic Compounds (SVOCs), and Target Analyte List (TAL) Metals. Refer to the Quality Assurance Project Plan (QAPP) in the RFI Work Plan (August 2011) for a full list of analytes on these lists.
- Between November 7 and November 30, 2012, the Delineation Stage of the RFI Phase II Investigation was implemented at the Sites. This resulted in the installation of 5 monitoring wells, 9 LNAPL wells, 2 soil gas monitoring points and the completion of 12 soil borings at Plant 2. From these borings the following data was collected.
 - 40 soil samples were collected for analysis of TCL VOCs, TCL SVOCs, and TAL Metals
 - 5 groundwater samples were collected for analysis of TCL VOCs and TAL Metals
 - 2 soil-gas samples were collected for analysis of TCL VOCs
- Between December 18, 2012, and December 31, 2012, the annual groundwater sampling event was completed at the Site, resulting in the collection of 18 groundwater samples at Plant 2. All samples were submitted for analysis of TCL VOCs, TCL SVOCs, PCBs, and TAL Metals.

Plant 3

- On November 6 and 7, 2012, the approved Stormwater Sampling Work Plan was completed at the Site. One groundwater sample was collected from the manhole at the southern edge of Plant 3, and a second sample was collected from an outfall structure at the northeast corner of Plant 3; both sampled were analyzed for TCL VOCs, TCL SVOCs, PCBs, and TAL Metals.
- On November 19 and 20, 2012, three NAPL gauging wells (LMW-12-09 through LMW-12-11) were installed in the central eastern portion of Plant 3 where NAPL has historically been found. One soil sample was collected from LMW-12-11 for a Flashpoint analysis.
- Between November 7 and November 30, 2012, the Delineation Stage of the RFI Phase II Investigation was completed at the Site, resulting in the installation of 3 monitoring wells and the completion and sampling of 8 soil borings at Plant 3. From these borings the following data was collected;

- 24 soil samples were collected for analysis of TCL SVOCs and TAL Metals
 - 7 groundwater samples were collected for analysis of TCL SVOCs and TAL Metals
- Between December 18, 2012, and December 31, 2012, the annual groundwater sampling event was conducted at the Site, resulting in the collection of 31 groundwater samples at Plant 3. All samples were submitted for analysis of TCL VOCs, TCL SVOCs, PCBs, and TAL Metals.

Plant 6

- On November 6 and 7, 2012, the approved Stormwater Sampling Work Plan was completed at the Site. One sample was collected from the manhole located near the northeastern corner of Plant 6, and a second sample was collected from a manhole located at the southern edge of Plant 6; both were analyzed for TCL VOCs, TCL SVOCs, PCBs, and TAL Metals.
- Between November 7 and November 30, 2012, the Delineation Stage of the RFI Phase II Investigation was completed at the Site, resulting in the installation of 7 groundwater monitoring wells, 2 soil gas monitoring probes and the completion and sampling of 9 soil borings at Plant 6. From these boring the following data was collected;
 - 22 soil samples were collected for analysis of TCL VOCs, TCL SVOCs, and TAL Metals.
 - 5 groundwater samples were collected for analysis of TCL VOCs, TCL SVOCs, and TAL Metals.
 - 2 soil-gas samples were collected for analysis of TCL VOCs.
- Between December 18, 2012, and December 31, 2012, the annual groundwater sampling event was conducted at the Site, resulting in the collection of 37 groundwater samples at Plant 6. All samples were submitted for analysis of TCL VOCs, TCL SVOCs, PCBs, and TAL Metals.

Work Performed During the 4th Quarter of 2012

- On November 6 and 7, 2012, ARCADIS completed the approved Storm Water Sampling Work Plan. Groundwater samples were collected from six Stormwater structures on Plants 2, 3, and 6 in order to determine if stormwater was collecting within the storm sewers at each of the plants and presenting potential Groundwater Surface Water Interface (GSI) compliance issues.
- Between November 7, 2012 and November 30, 2012, the Delineation Stage of the RFI Phase II Work Plan was completed. The following activities were completed during the Delineation Stage:

- Plant 2: PM Environmental (PME) completed 10 soil borings and installed 2 soil-gas monitoring probes. Boart Longyear completed 9 NAPL wells and 5 monitoring wells.
- Plant 3: PME completed 8 soil borings. Boart Longyear installed 3 NAPL wells and 3 monitoring wells.
- Plant 6: PME completed 7 soil borings and installed 2 soil-gas monitoring probes. Boart Longyear installed 7 monitoring wells.
- Between December 18, 2012 and December 31, 2012 PME conducted the annual groundwater sampling event at the Sites. A total of 127 wells were gauged for depth to water and NAPL, where applicable. A total of 86 wells were sampled during this event and submitted for TCL VOCs, TCL SVOCs, TAL Metals and PCBs.

Problems Encountered

- NAPL was encountered in the stormceptor located at the southern perimeter of Plant 6. A sample of the NAPL was collected in January 2013 and submitted for a fingerprint analysis. The Stormceptor is scheduled to be cleaned out and inspected in mid to late January 2013. An investigation to assess the source of the LNAPL is currently being developed and will likely begin in February 2013.

Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

Activity	Schedule
Clean-out and inspect the stormceptor at Plant 6	January 2013
Investigate the source of the stormceptor LNAPL	February 2013
MDEQ Milestone Meeting to Discuss Phase 2 Investigation Summary Report	February 18, 2013
Submittal of Phase 2 Investigation Summary Report to MDEQ	March 4, 2013

Begin Report Preparation for Corrective Measures Study	March 6, 2013
Submittal of Application for Coordinated Approval Letter to EPA	February 2013
Submit Routine Groundwater Sampling Work Plan to MDEQ for review and Approval	February 8, 2013
Complete 1Q13 Routine Groundwater Sampling Event	March 2013

If you have any questions, please call or e-mail me.

Sincerely,

ARCADIS G&M of Michigan, LLC



Amy L. Hoeksema, CPG
Project Manager

Copies:

Joe Rogers (MDEQ)
John McCabe (MDEQ)
Deborah R. Mackenzie-Taylor (MDEQ)
Grant Trigger (RACER)
Dave Favero (RACER)