

Semi-Annual Technical Progress Report January 2021 – June 2021

RCRA Corrective Action - IND 980 700 801 2915 Dr. Martin Luther King Jr. Boulevard, Anderson, IN Revitalizing Auto Communities Environmental Response Trust

Indiana Department of Environmental Management 29 July 2021

→ The Power of Commitment



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Appendix A Project Fact Sheet 31 (July 2021)

1. Introduction

GHD, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, has prepared this Semi-Annual Technical Progress Report for the RACER Trust facility located at 2915 Dr. Martin Luther King Junior Boulevard in Anderson, Indiana (Facility or Site).

This Semi-Annual Technical Progress Report has been prepared to summarize activities related to the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), Interim Measures (IM) activities, and Corrective Measures (CM) at the Facility for the period of January through June 2021.

2. Summary of RFI, Interim Measures, and Corrective Measures Activities

2.1 RCRA Facility Investigation/Environmental Indicators Determination

There were no RFI activities conducted during this reporting period.

RFI activities are 100 percent complete.

2.2 Interim Measures

Interim measures being conducted at the Site consist of routine groundwater and surface water monitoring and related reporting in accordance with the Site-wide Groundwater Monitoring Plan (AECOM, 2010) and subsequent recommendations made in the 2011 through 2020 Groundwater Monitoring Reports.

On January 28, 2021, GHD submitted the 2020 Annual Groundwater Monitoring Report to IDEM on behalf of RACER Trust to summarize the groundwater and surface water sampling activities performed in 2020 and the results generated therefrom. The findings of the annual groundwater and surface water monitoring activities are presented in Section 3.2.

The next scheduled Site-wide groundwater and surface water monitoring event is scheduled for April 2022.

2.3 Corrective Measures

The final Corrective Measures Proposal was developed and submitted to the Indiana Department of Environment Management (IDEM) on July 7, 2020. The final Corrective Measures Proposal was approved by IDEM on December 30, 2020. The revised Groundwater Monitoring Plan was developed and will be submitted to IDEM in August/September 2021.

3. Summary of Findings

3.1 RCRA Facility Investigation/Environmental Indicators Determination

There were no RFI activities conducted during this reporting period.

3.2 Interim Measures

Groundwater and surface water monitoring activities completed in 2020 were summarized in the 2020 Groundwater Monitoring Report which was submitted to IDEM on January 28, 2021. Conclusions from the 2020 Site-wide groundwater and surface water monitoring are provided below.

- 1. The November 2020 Unit 3S potentiometric mapping is consistent with previous mapping. The elevation contour map indicates that there is a general northeasterly gradient in Unit 3S beneath the central and north portions of the former Main Plant building. Beneath the southern portion of the former Main Plant, groundwater flow is variable.
- The November 2020 Unit 3D potentiometric mapping is consistent with previous mapping. The elevation contour
 map indicates that there is a general easterly gradient across the west portion of the Site and a general westerly
 gradient across the east portion of the Site into the meltwater valley.
- The November 2020 bedrock potentiometric mapping indicates that there is a general easterly gradient across
 the west portion of the Site and a predominantly western gradient across the east portion of the Site into the
 meltwater valley.
- 4. In 2020, the extent of the AOC 1 South Court plume remained defined on the east side with non-detect results for all volatile organic compounds (VOC) constituents at monitoring wells MW 37, MW 46 and MW 84. Cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride were detected at east boundary monitoring well MW 16. At the north perimeter boundary of the AOC 1 South Court plume, Unit 3D monitoring well MW 75 was free of detected VOC concentrations. The Unit 3S monitoring well in this area (MW 76R-17) exhibited very low concentrations of cis 1,2 DCE and vinyl chloride. In 2020, MW 49 south of the AOC 1 South Court area had an estimated detection of trichloroethene (TCE) above the screening level. Downgradient of MW 49 (east-northeast and east), TCE was not detected in the sample collected from MW 89-11, and the sample only exhibited very low concentrations of other VOCs consistent with historical monitoring events. At the south perimeter of the AOC 1 South Court plume, Unit 3S monitoring well MW 21 is free of all detected VOC concentration.
- 5. In 2020, the southern extent of the WWTP plume remained defined with perimeter monitoring wells MW-2, MW 56, and MW 97R-16 that were free of detected concentrations of VOCs. Along the northern extent of the WWTP plume, monitoring well MW 88 had a detection of vinyl chloride above the Site specific Commercial/Industrial Tap Water Use Criteria. Other north perimeter monitoring wells, MW 61 and MW 86, were free or contained very low concentrations of VOCs.
- 6. Of 126 data sets originally considered (three primary VOCs at each of 40 monitoring wells and 2 surface water locations) and evaluated, 71 had less than 75 percent detects, therefore were not evaluated. Of the remaining 55 data sets tested for trends, 31 were stable or decreasing over time and 24 had significant increasing trends. Comparing these results to those from the 2018 evaluation, the observed trends for TCE, cis-1,2-DCE and vinyl chloride concentrations in 2020 were consistent with the assessment conducted in 2018, except in one case, cis-1,2-DCE at MW 31R, which was stable or decreasing over time in 2018 is currently increasing.
- 7. Groundwater plume stability was also assessed considering the most recent results (3 to 5 years). The results from the Mann-Kendall trend test considering the most recent results showed that 20 of the 24 increasing trends identified using the entire monitoring period were observed to be stable (no statistically significant trend) during the recent period. Four increasing trends observed during the entire monitoring period were also increasing during the recent period (cis-1,2-DCE at WWTP tail monitoring well MW 28 and AOC 1 tail monitoring well

MW 51, and vinyl chloride at WWTP margin monitoring well MW 83 and WWTP tail monitoring well MW 88). However, four additional increasing trends were observed for the recent period, when they were observed to be stable considering the entire monitoring period (cis-1,2-DCE at WWTP margin monitoring well MW 58, and vinyl chloride at WWTP source monitoring well MW 68, AOC 1 tail monitoring well MW 79, and WWTP margin monitoring well MW 80). Data from the last 3 to 5 years indicates that TCE concentrations have no statistically significant increasing trends and therefore have been stable.

- 8. One surface water sampling event was conducted in November 2020 at the Meadowbrook Golf Course central irrigation pond. Trans-1,2-dichloroethene (trans-1,2-DCE), cis-1,2-DCE, and vinyl chloride were detected at surface monitoring locations Pond Intake and/or Pond North during the November 2020 surface water sampling event
- 9. Based on monitoring at adjacent monitoring well MW 85, the golf course irrigation pond appears to be within the former WWTP Area plume.
- 10. Based on the 2020 groundwater results from residential well MW 89-11, there is no current unacceptable risk to nearby residents due to groundwater volatilization to indoor air.

3.3 Corrective Measures

The revised Groundwater Monitoring Plan will be submitted to IDEM in August/September 2021.

4. Summary of Changes to RFI, Interim and/or Corrective Measures

There were no changes to the RFI, Interim Measures and/or Corrective Measures during the reporting period.

5. Summary of Contacts with Representatives of Local Community, Public Interest Groups, or State Government

The 2020 Groundwater Monitoring Report was submitted to IDEM on January 28, 2021. On March 31, 2021, IDEM provided comments on the document. On April 21, 2021, on behalf of RACER Trust, GHD submitted a response to IDEM's comments. On April 26, 2021, IDEM provided further comments.

6. Summary of Problems or Potential Problems

No problems were encountered during this reporting period.

7. Actions Taken To Rectify Problems

No problems were encountered during this reporting period.

8. Changes in Personnel

There were no changes to personnel during the reporting period.

9. Projected Work for July through December 2021

Projected work for July through December 2021 includes the following:

- Preparation and submittal of the revised Groundwater Monitoring Plan
- Preparation and submittal of the Environmental Restrictive Covenant for Tract B (South)

10. Reports and Data

The Semi-Annual Technical Progress Report July 2020 – December 2020 was submitted to IDEM on January 28, 2021.

An update of the RCRA Corrective Action activities completed at the Facility is presented in Project Fact Sheet 31 (July 2021) submitted with this Semi-Annual Technical Progress Report as Appendix A.

Appendices

Appendix A

Project Fact Sheet 31 (July 2021)



Revitalizing Auto Communities Environmental Response Trust

Project Fact Sheet 31 | July 2021 | racertrust.org

RCRA CORRECTIVE ACTION REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST

2915 Dr. Martin Luther King Jr. Boulevard (Formerly Pendleton Ave.) Anderson, Indiana

INTRODUCTION

The Revitalizing Auto Communities Environmental Response (RACER) Trust has prepared this Project Fact Sheet to update the local community about environmental activities being conducted at the facility located at 2915 Dr. Martin Luther King Jr. Boulevard (formerly Pendleton Avenue), Anderson, Indiana (Site). These activities are conducted under the oversight of the Indiana Department of Environmental Management (IDEM) and in accordance with an Agreed Order issued for the Site.

The Corrective Action process included a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) of the soil and groundwater conditions at the Site. Based upon an evaluation of the results obtained during these investigations, appropriate corrective measures were proposed and will be implemented.

SITE BACKGROUND

The Site is located on the southwest side of Anderson in Madison County, Indiana. Formerly, the facility comprised approximately 3,000,000 square feet of manufacturing area situated on 234 acres. GM operations at the Site began in 1929. Additional plant buildings were constructed and the plants were expanded several times between 1937 and 1989. Demolition of the plant commenced in 2007. Demolition of the main plant buildings and restoration activities were completed in 2009.

As a result of General Motors Corporation's (GMC's) 2009 bankruptcy, certain operating assets of GMC were sold on July 10, 2009 to a newly formed company known as General Motors LLC. The remaining unsold assets, including the Site, were retained by GMC, which was renamed Motors Liquidation Company (MLC), in its capacity as debtorin-possession in the bankruptcy case. In October 2010, the United States Government announced that MLC had agreed to resolve its liabilities at 89 sites relating to liabilities under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), RCRA, and the Clean Air Act through an environmental response trust fund. On March 31, 2011, the RACER Trust became effective and now owns, and conducts, manages, and funds cleanup at the 89 sites formerly owned by MLC, including the Site.



PROJECT FACT SHEET

Key documents that have been submitted to U.S. EPA and IDEM and are available for review in the public repository. The following documents have been submitted since 2008:

- Corrective Measures Plan, March 31, 2008
- Site-Wide Groundwater Monitoring Plan, March 31, 2008
- Notification to IDEM of a new potential contaminant source area, September 5, 2008
- Progress Reports from 1998 to present
- Groundwater Monitoring Reports for 2008 to 2020
- Vapor Intrusion Study Work Plan, July 2010
- Residential Vapor Intrusion Assessment Work Plan, September 1, 2011
- Investigation Work Plan, September 2, 2011
- Vapor Intrusion Study Work Plan Implementation – Technical Memorandum, November 3, 2011
- Residential Vapor Intrusion Assessment Technical Memorandum, March 7, 2012
- Supplemental RFI Results Technical Memorandum, March 7, 2012
- Soil and Perched Groundwater
 Delineation Work Plan, June 26, 2012
- Wastewater Treatment Plant Source Area Investigation Work Plan, January 4, 2013
- Perched Groundwater Investigation Work Plan, April 3, 2013
- Revised Risk Assessment Approach Letter, April 26, 2013
- Wastewater Treatment Plant Source Area Investigation Technical Memorandum, July 31, 2013
- Revised Risk Assessment Interim Deliverable, August 9, 2013
- Wastewater Treatment Plant Groundwater Investigation Work Plan, September 27, 2013
- Refined Human Health Risk Assessment and Derivation of Site-Specific Risk-Based Screening Levels, October 2013
- Refined Human Health Risk Assessment -Addendum, May 12, 2014

- Perched Groundwater Investigation Report of Findings, May 12, 2014
- RFI Final Report, June 2014
- Residential Well Sampling Work Plan, October 23, 2014
- Revised South Court Soil Investigation and WWTP Plume Boundary Well Installation Work Plan, November 14, 2014
- Wastewater Treatment Plant Groundwater Investigation Report of Findings, March 26, 2015
- City Beautification of Anderson Parking Lot Memorandum, June 1, 2015
- South Court Soil and WWTP Plume Boundary Investigation Report of Findings, June 4, 2015
- Supplemental Analysis in Support of the CMP, August 12, 2015
- Chromium and Hexavalent Chromium Groundwater Data Memorandum, September 23, 2015
- Refined Human Health Risk Assessment
 Addendum 2, February 2, 2016
- Chromium Groundwater Investigation Work Plan, March 9, 2016
- Chromium Groundwater Investigation Report of Findings, August 3, 2016
- Request for Reduction of Progress Reporting, February 24, 2017
- Residential Well Sampling Report of Findings, December 7, 2017
- Bedrock Groundwater Investigation Work Plan, May 8, 2018
- Former Plant 6 and Plant 9 Soil Vapor Investigation Work Plan, January 22, 2019
- Bedrock Groundwater Investigation Report of Findings, March 19, 2019
- Former Plant 6 and Plant 9 Soil Vapor Investigation Report of Findings, June 17, 2019
- Evaluation of Meadowbrook Golf Course Pond Surface Water Analytical Data, December 17, 2019
- Final Corrective Measures Proposal, July 7, 2020

RCRA CORRECTIVE ACTION

The RACER Trust is currently conducting Corrective Action activities at the Site. Corrective Action activities are required for all facilities that applied for a permit to store hazardous waste and include an evaluation of whether plant waste management operations have impacted the environment. The program included a RFI that was designed to identify and address any significant risks to human health or the environment resulting from the release of hazardous waste or hazardous constituents to environmental media such as soil or groundwater. The scope of the RFI and required cleanup work has been and will continue to be reviewed with IDEM. The activities will continue to be conducted according to standards that are protective of human health and the environment.

The Corrective Action process uses Environmental Indicators (Els) to evaluate and report on current site conditions related to potential current human exposure and potential groundwater migration. Under the RCRA program, U.S. EPA's top priority is to make sure that these two Environmental Indicators are satisfied at a given site. MLC submitted reports to IDEM for these two Environmental Indicators to demonstrate that current human exposure and migration of contaminated groundwater are under control. Groundwater monitoring to verify plume stability is ongoing.

IDEM issued a Notice of Corrective Action Complete for Tract A, Tract B (North), Tract B (Central), Tracts C to F, and Crawford Field detailing IDEM's Final Decision, stating that RACER Trust has fulfilled its obligations under Indiana's RCRA Corrective Action Program for the parcels of land.

RCRA FACILITY INVESTIGATION

RFI activities have been completed at the Site. The purpose of an RFI is to investigate any areas of the Site that may need further action and to determine what additional steps might be appropriate. The results of these investigations, including an assessment of potential risk, were documented in reports that have been submitted to IDEM and copies are available for review in the IDEM's virtual file cabinet. A revised Final RFI Report (Conestoga-Rovers & Associates, June 2014) was submitted to IDEM providing details of historical investigations summarized in the previous Final RFI Reports and is amended with details of investigations conducted since that time. The revised and Final RFI Report was approved by IDEM on July 22, 2014.

A Refined Human Health Risk Assessment was prepared to assess the results of investigations conducted to date to determine whether realistic exposure levels of Site constituents have the potential to adversely affect human health on- or off-Site. This report was submitted to IDEM in October 2013 and approved with the exception of the non-default residential and commercial/industrial vapor intrusion groundwater screening levels in November 2013.

On May 12, 2014 an Addendum to the Refined Human Health Risk Assessment was submitted to IDEM detailing that RACER Trust agreed to use IDEM's Remediation Closure Guide generic residential and commercial/industrial groundwater vapor exposure screening levels. The Refined Human Health Risk Assessment, coupled with the Addendum, was approved by IDEM on May 19, 2014.

RFI activities are 100-percent complete.

COMPLETED INTERIM MEASURES

Interim Measures (IM) were conducted in the South Court Area in July 2005 to address concentrations of trichloroethene (TCE) in a small area of soil and shallow groundwater that were significantly higher than in the surrounding area.

Soil was excavated to the depth of the perched water table at approximately 8 feet below ground and disposed off-site. Hydrogen-Releasing Compound® (HRC) was mixed into soil at the bottom of the excavation, to enhance degradation of TCE in groundwater. Following placement of the HRC®, the excavation was backfilled and the pavement replaced.

Interim measures were also conducted in 2007 to plug and abandon five former groundwater production wells at the facility. This work was performed according to Indiana Department of Natural Resources guidelines.

The RACER Trust continues to complete interim Site-wide groundwater monitoring in accordance with the Site-wide Groundwater Monitoring Plan.

CORRECTIVE MEASURES

A draft Corrective Measures Proposal was submitted to IDEM in March 2008. A final Corrective Measures Proposal was submitted to IDEM on July 7, 2020 incorporating the results of activities completed since the time the initial proposal was submitted, including a revised Human Health Risk Assessment and additional investigations. The final Corrective Measures Proposal was approved by IDEM on December 30, 2020. Environmental Restrictive Covenants for Tract A, Tract B (North), Tract B (Central), Tracts C to F, Crawford Field, Lot 1 and former Plant 9 have been completed, approved by IDEM and recorded.

REDEVELOPMENT

RACER Trust is currently marketing portions of the Site for redevelopment. On April 1, 2015, the northern portion of the former main manufacturing building area ,Tract B (North), was sold to GDI Construction. RACER Trust donated Tracts C to F and Crawford Field to the City of Anderson on September 14, 2015. Lot 1 was sold on July 6, 2016 to Tower Anderson, LLC. The central portion of the former main manufacturing building, Tract B (Central), was sold on September 13, 2019 to Sirmax North America Inc.

UPCOMING ACTIVITIES

Routine groundwater and surface water monitoring and reporting is ongoing. A revised Groundwater Monitoring Plan is in the process of being completed.

PUBLIC PARTICIPATION

An information repository has been established where current project related documents are available for public review. The information repository is located at:

Anderson Public Library

111 East 12th Street Anderson, IN 46016 Tel: (765) 641-2450

Project Fact Sheets will be issued periodically during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the Site.

CONTACT INFORMATION

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