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Revitalizing Auto Communities Environmental Response (RACER) Trust

Factory 36: Certification of Closure for Closure Response Activities at RCRA Waste Management Unit #1

Former General Motors Corporation
North American Operations Facility
(Otherwise known as Buick City)

Flint, Michigan

June 13, 2011

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Figures

Appendices

1. Introduction

1.1 Overview

This Certification of Closure (Certification) has been prepared on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust by ARCADIS. This Certification is for the closure activities completed at the Resource Conservation and Recovery Act of 1976 (RCRA) Waste Management Unit (WMU) identified as Factory 36, Building 36, Engine Plant Northeast Dock (WMU #1), which is classified as a container storage area. WMU #1 is located at the former General Motors Corporation (GMC) North American Operation (NAO) Flint Operations Site located at 902 East Leith Street in Flint, Michigan (the Site) (Figure 1 and Figure 2). On March 31, 2011, the environmental remediation and redevelopment of the Site were transferred from Motors Liquidation Company (MLC) to RACER Trust. The United States Environmental Protection Agency (USEPA) ID No. for the Site is MID 005356712.

1.2 Background

The Site is located at 902 East Leith Street in Flint, Michigan, and consists of approximately 450 acres of land. The Site is generally bounded to the north by Stewart Avenue and Pierson Road, to the south by Harriet Street, to the east by James P. Cole Boulevard, and CSX Railroad, and to the west by Industrial Avenue and North Street. The Site has been used since the early 1900s for automobile manufacturing, including various manufacturing processes including: ferrous and non-ferrous metal machining, plastic injection molding, metal forging and foundry, painting and finishing, vehicle assembly, and products testing.

Production operations at Factory 36 have ceased and the factory is currently in the process of being decommissioned and demolished. The remaining factories at the Northend (property located north of Leith Street) of the Site are slated for demolition in 2011 and 2012. Buildings and related operations in the Southend (property south of Leith Street) have been demolished, with the exception of the administration building.

In April 2007, a *RCRA Waste Management Unit Closure Status Report* (Closure Status Report) was submitted to the Michigan Department of Environmental Quality (MDEQ) – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas and the proposed activities / information required for closure (ARCADIS BBL, 2007). In July 2009, the MDEQ – WHMD issued a response to the Closure Status Report detailing guidance on the activities needed to obtain closure of the 10 WMU areas (MDEQ, 2009).

In January 2010, a conference call between the Michigan Department of Natural Resources and the Environment (MDNRE) – WHMD (MDEQ was referred to as MDNRE between January 17, 2010 and March 13, 2011) and ARCADIS was held to discuss and clarify the July 2009 MDEQ-WHMD letter. During this call it was decided that WMUs located in the Northend and Southend would be addressed under separate Work Plans. In April 2010, it was decided that because of the schedule for demolition of Factory 36, the closure of WMU #1 needed to be accelerated and a separate work plan would be prepared for this activity. Therefore, three separate work plans were planned to be submitted for the Site's WMU areas (Factory 36, Northend, and Southend).

In September 2010, the *Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit* (Factory 36 Work Plan) was submitted to the MDEQ – WHMD and was approved by the MDNRE – WHMD in November 2010 (ARCADIS, 2010). The Northend Work Plan was submitted to the MDEQ – WHMD on June 7, 2011 and the Southend Work Plan is anticipated to be submitted in the summer of 2011.

2. WMU #1 Closure Activities

Closure field work activities were performed between March 21 and June 2, 2011, and are discussed in detail in the following sections. A photo log documenting field activities is presented in Appendix A and sampling locations presented on Figure 3.

2.1 Inventory and Remedial Waste Management Procedures

There were no waste drums observed within WMU #1 and therefore, no existing hazardous waste needed to be transported to an on-site central waste storage area.

2.2 Inspection Procedures

The WMU #1 area consists of an enclosed and raised (approximately 3 to 4 feet above ground surface) platform supported by steel I-beams. The raised platform consists of a steel plate floor with a sump. The steel I-beams and underlying area are surrounded by a metal skirting.

WMU #1 was visually inspected for evidence of historical spills (e.g. staining) prior to beginning closure activities. Both the floor and the sump were observed to have loose debris (i.e., dirt, paint chips, etc.) and some staining with the sump being dry. During the inspection it was observed that polychlorinated biphenyl (PCB) and Universal Waste storage signage was present on the WMU #1 wall. This observation was discussed with the MDEQ and it was decided that additional laboratory parameters (i.e., total PCBs and mercury) should be added to the WMU #1 sample laboratory parameter list.

In order to perform the visual inspection beneath the WMU #1, portions of the metal skirting surrounding the WMU #1 were removed. As discussed in Section 2.3 below, the underside of the floor and sump were inspected during decontamination activities.

In addition, a sump integrity inspection was completed by filling the sump with water up to a known level and allowing it to remain for 24 hours. After 24 hours the water level was checked and observed to be at the same level, confirming that the sump was intact.

2.3 Decontamination Procedures

2.3.1 Preparation for Decontamination Activities

Prior to beginning decontamination activities, loose debris (i.e., dirt, paint chips, etc.), that was observed on the floor and within the sump, was collected and placed into a 55-gallon drum to await characterization and disposal. Plastic sheeting was then installed to a height of approximately 3 feet above the WMU floor in order to prevent liquids from leaving the WMU #1 area during decontamination activities. The plastic sheeting was used in addition to the existing curb that surrounded the raised WMU #1 floor.

Prior to beginning the decontamination of the steel plate floor, plastic sheeting was secured on top of the sump drain to prevent decontamination water from going into the sump. The plastic sheeting was placed beneath the metal sump cover and was secured in place using a magnet.

Subcontractors performing decontamination tasks within WMU #1 were suited in Level C PPE during the decontamination of the floor and sump.

2.3.2 Decontamination of WMU #1 Floor

Decontamination of the steel plate floor consisted of spraying soap (Alconox anionic detergent) solution on to the floor followed by triple rinsing with a pressure washer using heated water. During the initial and second rinse, a floor squeegee was used to direct the water to a corner of the WMU #1 area where a vacuum (vac) truck could collect the decontamination water. The final rinse was completed using the same procedure with the exception of using a wet-vacuum to collect the final rinse decontamination water. The rinse water was collected within the wet-vacuum to allow for discrete sampling of the final rinse.

During decontamination activities the underside of the elevated steel plate floor was continuously inspected to identify any leaks present in the flooring. Three minor leaks (approximately 0.25 gallons in total) were observed during the decontamination and

were contained using plastic buckets. Observed leaks were documented and flagged for potential sampling. Based on a discussion with the MDEQ, one soil sample [F36-SS-2 (032211)] was collected beneath the floor near the observed water leak area (Figure 3). The laboratory analytical results for sample F36-SS-2(032211) were non-detect for the submitted analyses. Please see Section 2.4.4 for additional details on the soil sampling analytical results.

2.3.3 Decontamination of Sump

After the decontamination of the steel plate floor was completed, the magnet along with plastic sheeting was removed from the top of the sump. Decontamination of the sump consisted of spraying soap (Alconox anionic detergent) solution in to the sump followed by triple rinsing with pressure washer using heated water. Following the initial and second rinses a vac truck hose was used to remove the rinse water out of the sump. The final rinse was completed using the same procedure with the exception of using a wet-vacuum to collect the final rinse decontamination water. The rinse water was collected within the wet-vacuum to allow for discrete sampling of the final rinse.

During decontamination the area beneath the sump was continuously inspected to identify any leaks present in the sump. No leaks were observed during decontamination of the sump.

2.4 Sampling and Analysis Procedures and Results

The WMU #1 area reportedly contained characteristic (D001 and D035) and listed hazardous waste (F001, F003, and F005). As discussed in Section 2.2 above, signage for PCBs and Universal waste were also noted at WMU #1 during the inspection.

2.4.1 Final Decontamination Rinse Water Sampling and Laboratory Analysis

On March 21, 2011, two samples [F36-Final Rinse - Floor (032111) and F36-Final Rinse - Sump (032111)] were collected of the final decontamination rinse water. The samples were submitted to Merit Laboratories for analysis of the following

characteristic waste (D001 and D035), F-listed waste (F001, F003, and F005), and other constituents:

- Characteristic Waste Analyses
    - Ignitability (Flashpoint, ASTM D3278)
    - 2-Butanone (Methyl-Ethyl Ketone) (USEPA Method 8260B)
- F-Listed Waste Analyses
    - Standard volatile organic compounds (VOC) (USEPA Method 8260B or 8260M): 2-Ethoxyethanol, 2-Nitropropane, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Acetone, Benzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chlorinated Fluorocarbons (Dichlorodifluoromethane and Trichlorofluoromethane), Ethyl Benzene, Ethyl Ether (Diethyl Ether), Methylene Chloride, Methyl Isobutyl Ketone (MIBK), ortho-Dichlorobenzene (1,2-Dichlorobenzene), Tetrachloroethylene, Toluene, Trichloroethylene (Trichloroethene), Trichlorofluoromethane, and Xylenes (p,m- and o-Xylene).
    - F-Scan VOC (USEPA Method 8260B): Cyclohexanone, Ethyl Acetate
    - USEPA Method 8015B: Isobutanol (Isobutyl Alcohol), Methanol (Methyl Alcohol), and n-Butyl Alcohol
    - F-Scan semi-volatile organic compounds (SVOC) (USEPA Method 8270C): Cresols (p-,m-, and o-Cresol), Cresylic Acid, Nitrobenzene, and Pyridine
- Other Constituent Analyses
    - Total PCBs (USEPA Method 608)
    - Total Mercury (USEPA Method 245.1)

2.4.2 Final Decontamination Rinse Water Analytical Results

The analytical results of the final rinse samples were received from the laboratory on March 29, 2011 and are presented in Appendix B. A summary of the analytes detected in each sample is summarized below:

- Floor sample [F36-Final Rinse - Floor (032111)]:
    - Toluene detection of 3 µg/L
    - Mercury detection of 0.5 µg/L
    - PCB-1254 detection of 0.3 µg/L
- Sump sample [F36-Final Rinse - Sump (032111)]:
    - Toluene detection of 5 µg/L
    - PCB-1254 detection of 12 µg/L

In order to confirm that decontamination activities were complete these detections were compared to criteria as outlined in the Factory 36 Work Plan. However, as discussed in Section 2.2 above, PCBs and mercury were added to the analyte list during the field event. Therefore, the Factory 36 Work Plan did not outline the appropriate criteria for comparison. A conference call was held with the MDEQ on March 31, 2011 to discuss the results of sampling completed to date; to determine the appropriate criteria for comparison of the mercury and PCB data; and to determine whether additional sampling would be required to receive clean closure. It was decided that the PCB wipe and paint scrape results would be compared to the criteria of 10 µg/100 cm^2 and 50,000 µg/kg, respectively. The additional outcomes of the March 31 call are discussed in the applicable sections throughout the remainder of this report.

A summary of the comparison to criteria for each analyte detected in the final rinse samples is provided below.

2.4.2.1 Toluene Detections

The toluene detections were compared to Act 307 Type B criteria and Part 201 criteria. The detections of toluene in both final rinse samples did not exceed any criteria. No additional decontamination activities are required for this analyte.

2.4.2.2 Mercury Detections

As discussed in the March 31, 2011 call with the MDEQ the mercury detection in the floor final rinse sample was evaluated to confirm that mercury was present at a concentration below 10 percent of the TCLP RCRA Regulatory Levels for characteristic hazardous waste, as outlined in Section 2.2 of the Factory 36 Work Plan. The concentration of mercury in the floor final rinse sample did not exceed the threshold of 20 µg/L (i.e. 10% of TCLP RCRA Regulatory level for Mercury [200 µg/L]); therefore, no additional decontamination activities are required for this analyte.

2.4.2.3 PCB Detections

As discussed in the March 31, 2011 call with the MDEQ PCBs were detected in both the floor and sump final rinse samples. During the call it was decided that two PCB wipe samples (one from the floor and one from the sump) and one PCB paint scrape sample would be collected to determine whether decontamination activities were complete for PCBs. The results of the wipe and paint scrape sampling are discussed below.

2.4.3 Wipe and Paint Scrape Sampling and Analytical Results

As discussed above, two wipe samples (one from the floor and one from the sump) and one paint scrape sample were collected from WMU #1 on April 4, 2011 and submitted for laboratory analysis of PCBS by USEPA Method 8082 to determine whether decontamination activities were complete. The floor wipe sample [F36-Floor (040411)-WS] was collected from the northeast corner of WMU #1 where signage indicated 'PCB Capacitor and Ballast Disposal'. The Sump wipe sample [F36-Sump (040411)-WS] was collected from within the WMU #1 sump. The paint scrape sample [F36-Paint (040411)-SD] was collected from paint located approximately 2 feet south of

the sump. The paint scrape sample consisted of primarily red paint, with some underlying yellow paint. The surveyed locations of these samples are presented on Figure 3.

The results of the wipe and paint scrape samples were received from the laboratory on April 5, 2011 and are presented in Appendix B with the detections summarized below:

- F36-Floor(040411)-WS wipe sample:
    - PCBS - Non-detect (<1 µg/100 cm2)
- F36-Paint(040411)-SD paint scrape sample:
    - PCB-1254 detection of 1,500 µg/kg
- F36-Sump(040411)-WS wipe sample:
    - PCB-1254 detection of 50 µg/100 cm2

As discussed during the March 31, 2011 call with the MDEQ, the PCB wipe and paint scrape results were compared to the criteria of 10 µg/100 cm^2 and 50,000 µg/kg, respectively. The PCB detection from the F36-Sump (040411)-WS wipe sample exceeded the 10 µg/100 cm^2 criteria. On April 11, 2011 the MDEQ was notified by ARCADIS via email of the wipe and paint chip analytical results. The April 11, 2011 email also indicated that the analytical data would be passed on to the demolition contractor, to ensure that the sump is disposed of appropriately. In an email dated April 15, 2011, the MDEQ agreed with the approach and closure sampling activities at the WMU were considered complete. On May 6, 2011 the sump was removed by the demolition contractor and transported to the onsite Toxic Substances Control Act designated PCB storage area located at Factory 10 to await proper disposal.

2.4.4 Soil Sampling and Analytical Results

Based on the area (less than 1,000 square feet) of WMU #1, three samples of the underlying surface (i.e., soil) were collected on March 22, 2011 directly beneath the

steel plate floor/sump, within the footprint of WMU #1 (Figure 3). Based on discussion with the MDEQ, one sample [F36-SS-1 (032211)] was collected beneath the sump, one sample [F36-SS-2 (032211)] was collected beneath the floor near the observed water leak area, and one sample [F36-SS-3 (032211)] was collected beneath the floor in the northwest portion of the WMU area. The soil samples were scanned with a photoionization detector (PID) during sampling. No elevated PID readings were measured. The surveyed locations of these samples are presented on Figure 3.

The soil samples were submitted to Merit Laboratories for the following characteristic (D001 and D035), F-listed waste (F001, F003, and F005), and other constituents:

- Characteristic Waste Analyses
    - Ignitability (Flashpoint, USEPA Method 1030)
    - 2-Butanone (Methyl-Ethyl Ketone) (USEPA Method 8260B/5035)
- F-Listed Waste Analyses
    - Standard VOC (USEPA Method 8260B/5035 or 8260M): 2-Ethoxyethanol, 2-Nitropropane, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Acetone, Benzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chlorinated Fluorocarbons (Dichlorodifluoromethane and Trichlorofluoromethane), Ethyl Benzene, Ethyl Ether (Diethyl Ether), Methylene Chloride, Methyl Isobutyl Ketone (MIBK), ortho-Dichlorobenzene (1,2-Dichlorobenzene), Tetrachloroethylene, Toluene, Trichloroethylene (Trichloroethene), Trichlorofluoromethane, and Xylenes (p,m- and o-Xylene).
    - F-Scan VOC (USEPA Method 8260B/5035): Cyclohexanone, Ethyl Acetate
    - USEPA Method 8015B: Isobutanol (Isobutyl Alcohol), Methanol (Methyl Alcohol), and n-Butyl Alcohol

  - F-Scan SVOC (USEPA Method 8270C): Cresols (p-,m-, and o-Cresol), Cresylic Acid, Nitrobenzene, and Pyridine

- Other Constituent Analyses
  - Total PCBs (USEPA Method 8082)
  - Total Mercury (USEPA Method 7471A)

The results of the soil samples were received from the laboratory on March 29, 2011 and are presented in Appendix B with the detections summarized below:

- F36-SS1 (032211) sample:
  - Mercury detection of 60 µg/kg
- F36-SS2 (032211)
  - No detections
- F36-SS3 (032211) samples
  - No detections

The mercury detection at F36-SS1 (032211), which exceeds select Act 307 Type B and Part 201 Criteria, was discussed with the MDEQ during the March 31, 2011 conference call. As discussed during the call, the mercury impacts at F36-SS1 (032211) do not appear to be associated with the waste storage activities at WMU #1. Mercury was not detected in the final rinse water sample collected from the sump. In addition, no sign of leakage was identified during the sump decontamination activities or the sump integrity test. During the March 31, 2011 MDEQ call it was determined that no additional soil sampling was required to obtain RCRA closure.

2.5 Additional Waste Management Procedures

Investigation-derived waste (e.g. decontamination water, waste materials, etc.) were containerized in segregated labeled 55-gallon Department of Transportation (DOT) -

approved containers and staged onsite. Waste characterization samples [F36-Firstwash-Sump (032111), F36-Firstwash-Floor (032111), and F36-Solids (032211)] were collected on March 21 and March 22, 2011 and submitted to Merit Laboratories for analysis. These laboratory analytical results are presented in Appendix B.

Ten drums of waste (8 liquid waste and 2 solid waste) were generated during closure activities. The investigation derived waste was shipped offsite for disposal on June 2, 2011. Six drums of liquids generated during the floor cleaning were shipped to U.S. Industrial Technologies in Livonia, MI. Two drums of the liquids generated during sump cleaning were shipped to Veolia Environmental Services, LLC located in Port Arthur, Texas. Two drums of solid waste generated during cleaning activities were shipped to EQ Detroit in Detroit, MI.

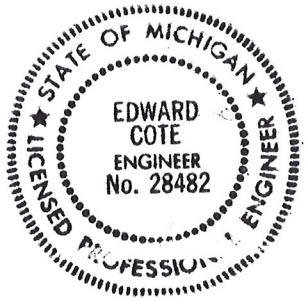
Copies of the shipping manifests are presented in Appendix C. Please note that the six drums shipped to U.S Industrial Technologies in Livonia, MI were shipped with other site waste not related to the Factory 36 closure activities.

3. Certification Of Closure

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Grant Trigger
RACER Trust

Edward Cote, PE
Principal Environmental Engineer



4. References

ARCADIS, 2010. Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit – Former General Motors Corporation, NAO Flint Operations Facility (Otherwise known as Buick City), Flint Michigan. September 2010.

ARCADIS BBL, 2007. RCRA Waste Management Unit Closure Status Report. (April 30, 2007).

MDEQ. 2009. Closure Status Report Review Letter for the RCRA Waste Management Unit Areas at the General Motors Corporation, NAO Flint Operations; MID 005 356 712. July 27, 2009

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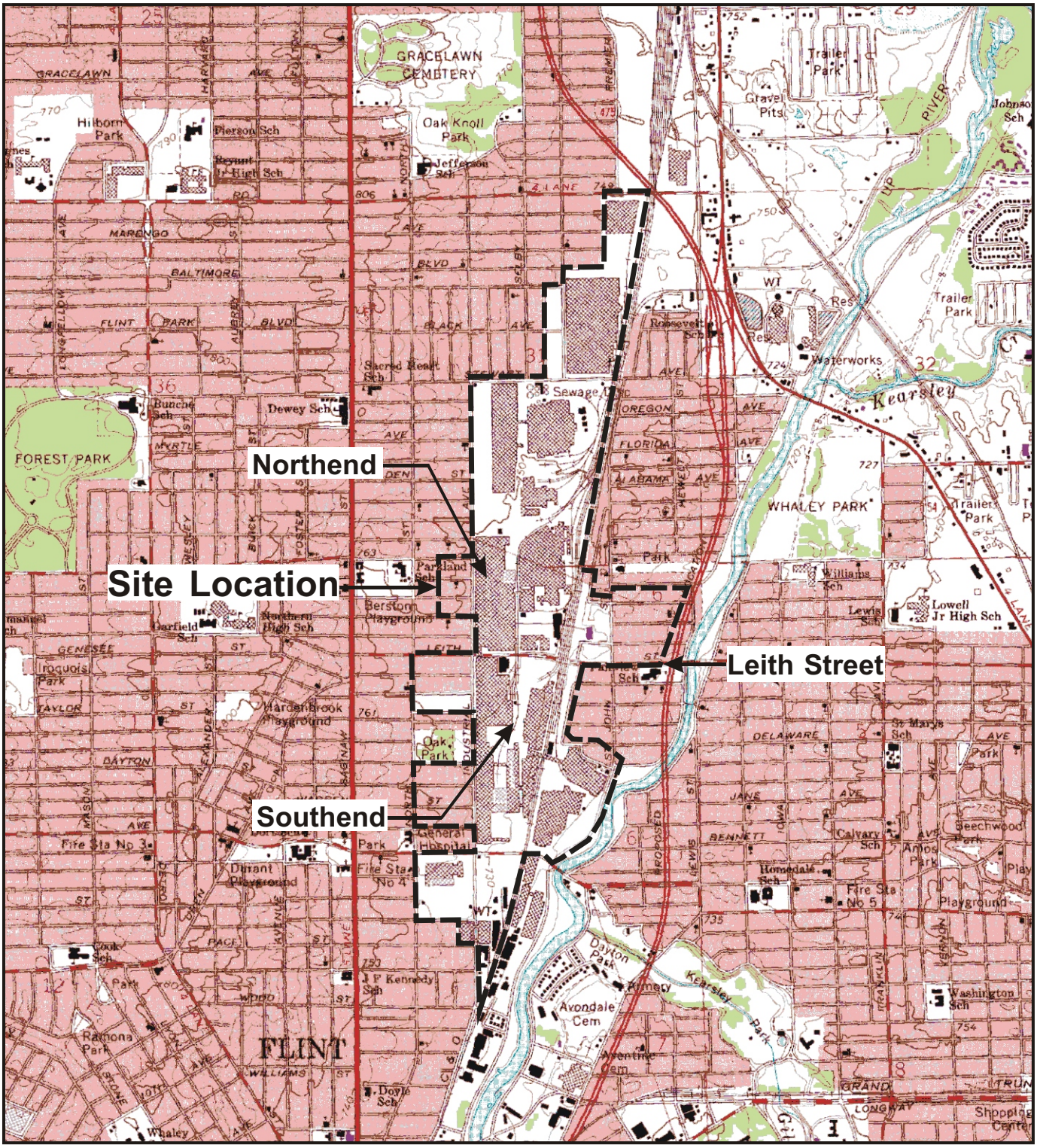
Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'

Area Location

RACER TRUST
FORMER GENERAL MOTORS CORPORATION
NORTH AMERICAN OPERATIONS FACILITY FLINT OPERATIONS SITE - FLINT, MICHIGAN

FACTORY 36 CERTIFICATION OF CLOSURE

SITE LOCATION MAP

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FIGURE
1

05/11/2011 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2011/00900/CDR/64410N03.CDR

FACTORY 36, BUILDING 36
ENGINE PLANT NORTHEAST DOCK
(WMU #1)

DIVISION 25, EAST OF FACTORY 10
OUTSIDE WASTE THINNER TANK AREA
(WMU #2)

FACTORY 10 SALVAGE YARD
CONTAINER STORAGE AREA
(WMU #5)

FACTORY 10 SALVAGE YARD
TANK STORAGE AREA
(WMU #4)

BUILDING 02 CONTAINER
STORAGE AREA
(WMU #8)

FACTORY 86, BUILDING 04, ASSEMBLY
PLANT WASTE STORAGE TANKS
(WMU #10)

BUILDING 41A, ASSEMBLY
PLANT WASTE TANK
(WMU #7)

FACTORY 10, BUILDING 20
TRANSMISSION PLANT TANK AREA
(WMU #3)

FACTORY 31, BUILDING 32
AXLE PLANT NORTH DOCK
(WMU #6)

DIVISION 29, BUILDING 23
TOOL MANUFACTURING
CYANIDE STORAGE AREA
(WMU #9)

NORTHEND SOUTHEND

LEGEND:

- PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY GM (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE WMU AREA ADDRESSED IN THIS WORK PLAN
- APPROXIMATE WMU AREA ADDRESSED IN SEPARATE WORK PLAN

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

0 400' 800'
GRAPHIC SCALE

RACER TRUST
FORMER GENERAL MOTORS CORPORATION
NORTH AMERICAN OPERATIONS FACILITY FLINT OPERATIONS SITE - FLINT, MICHIGAN

FACTORY 36 CERTIFICATION OF CLOSURE

SITE PLAN

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FIGURE
2

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G. STOWELL L.FORAKER LD: G. STOWELL PIC: L. McBURNEY PM:M. MAKI TM: M. BRENNAN LYR: ON=*; OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIB\0064410\2011\00900\DWG\FACTORY 36\64410G01.DWG LAYOUT: 2SAVED: 5/11/2011 9:52 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: C-LD2B-PDF PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 5/11/2011 9:53 AM BY: FORAKER, LYDIA
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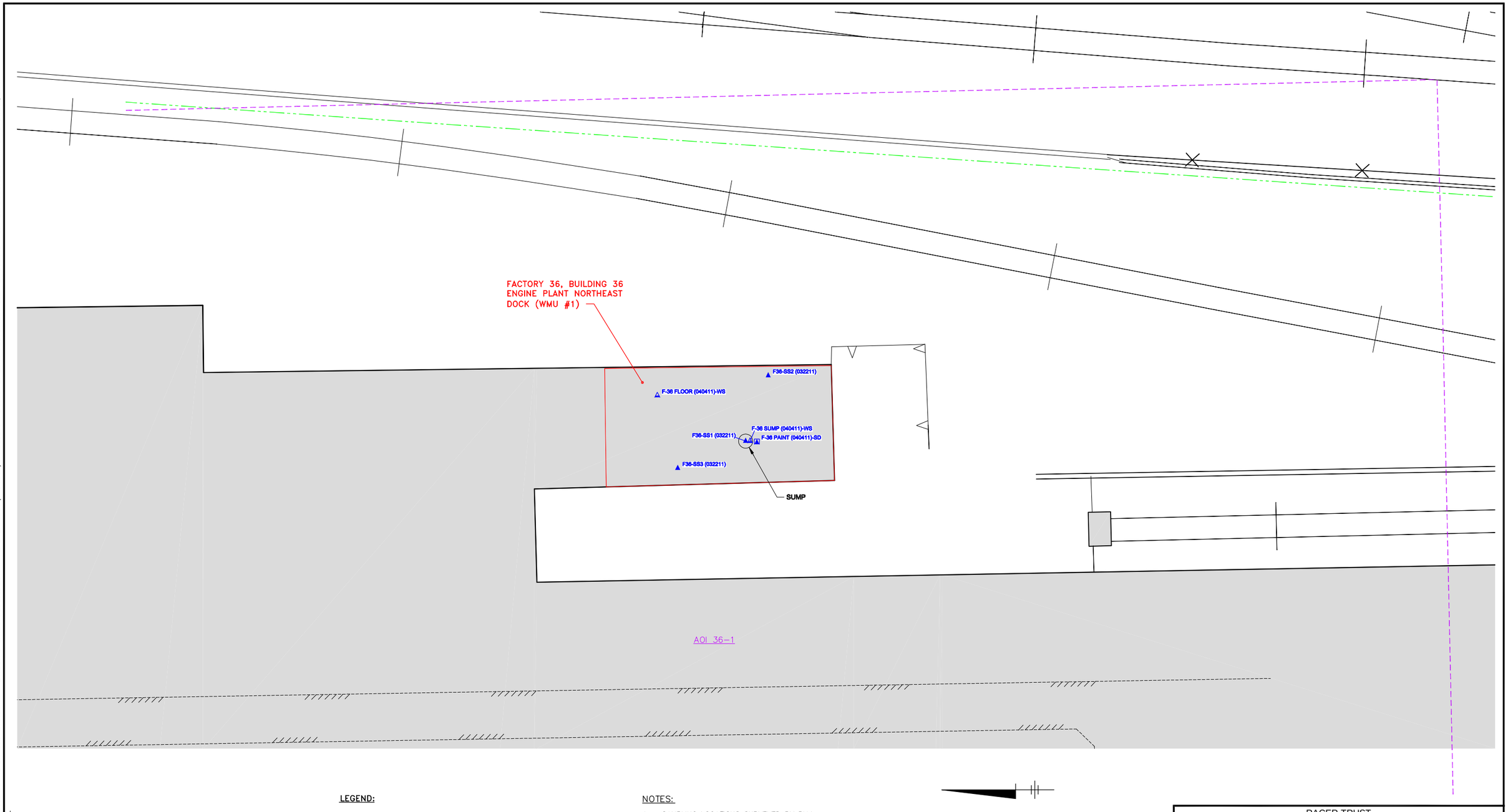
64410X02
64410X00
IMAGES:
PROJECTNAME: ---



LEGEND:

- MLC PROPERTY BOUNDARY
- APPROXIMATE AOI BOUNDARY
- AOI 36-1 — AOI ID
- APPROXIMATE WMU AREA
- SOIL SAMPLING LOCATION
- WIPE SAMPLING LOCATION
- PAINT SCRAPE SAMPLING LOCATION

NOTES:

1. SAMPLING LOCATIONS SURVEYED BY BMJ ENGINEERS & SURVEYORS, INC. OF PORT HURON, MICHIGAN ON MAY 26, 2011.
2. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
3. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

0 10' 20'
GRAPHIC SCALE

RACER TRUST
FORMER GENERAL MOTORS CORPORATION
NORTH AMERICAN OPERATIONS FACILITY FLINT OPERATIONS SITE - FLINT, MICHIGAN

FACTORY 36 CERTIFICATION OF CLOSURE

SAMPLING LOCATIONS

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FIGURE 3

CITY: SYRACUSE DIVGROUP: ENVCAD DB: G. STOWELL L:FORAKER LD: G. STOWELL PIC: L. McBURNEY PM:M. MAKI TM:M. BRENNAN LYR: ON=*; OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ---
64410X01
64410X02
64410X00

Appendix A

Photo Summary Log

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
1	3-21-2011

Direction Photo Taken:

Facing south.

Description:

View of WMU floor prior to cleaning.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
2	3-21-2011

Direction Photo Taken:

Facing southwest.

Description:

Setting up of plastic sheeting to assist in containing decontamination liquids during decontamination activities of WMU.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
3	3-21-2011

Direction Photo Taken:

Facing northeast.

Description:

View of exposed area beneath WMU after metal skirting was removed.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
4	3-21-2011

Direction Photo Taken:

Facing south.

Description:

View of WMU floor decontamination activities (i.e., pressure washing with heated water).

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
5	3-21-2011

Direction Photo Taken:

Facing south.

Description:

View of WMU sump decontamination activities (i.e., pressure washing with heated water).

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
6	3-21-2011

Direction Photo Taken:

Facing northeast.

Description:

View of PCB signage within WMU.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
7	3-21-2011

Direction Photo Taken:

Facing south.

Description:

View of Universal Waste Collection Area signage within WMU.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
8	3-22-2011

Direction Photo Taken:

Facing southwest

Description:

View of soil and debris underneath the elevated WMU floor.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
9	3-22-2011

Direction Photo Taken:

Facing west.

Description:

View of the sump beneath WMU floor with the darker area beneath the sump representing the F36-SS1 (032211) soil sample location.

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PHOTOGRAPHIC LOG

Project: Factory 36: Certification of Closure for Closure Response Activities at RCRA WMU #1	Location: Flint, Michigan	Project No. B0064410.2011.00900

Photo No.	Date:
10	4-4-2011

Direction Photo Taken:

Facing northwest.

Description:

View of F36-Paint (040411)-SD paint scrape sampling location near the sump.

ARCADIS

Appendix B

Laboratory Data

Analytical Laboratory Report

Report ID: S48152.01(01)
Generated on 03/29/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48152.01-S48152.03
Project: B0064410.2011.00900
Collected Date: 03/21/2011
Submitted Date/Time: 03/22/2011 15:10
Sampled by: Unknown
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48152.01	F36-Final Rinse - Floor (032111)	Liquid	03/21/2011 15:35
S48152.02	F36-Final Rinse - Sump (032111)	Liquid	03/21/2011 16:00
S48152.03	Trip Blank - 01	Liquid	03/21/2011

Analytical Laboratory Report

Lab Sample ID: S48152.01
Sample Tag: F36-Final Rinse - Floor (032111)
Collected Date/Time: 03/21/2011 15:35
Matrix: Liquid
COC Reference: 61200

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	1L Amber	None	Yes	4.0	IR
2	40ml Glass	HCL	Yes	4.0	IR
2	40ml Glass	None	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	03/25/11 17:40	DLR		
Extraction, PCB	Completed			3510C	03/24/11 18:33	EMR		
Mercury Digestion	Completed			7471A	03/24/11 12:00	JRT		
Inorganics								
Flash Point	Not detected	oF	180	ASTM D3278	03/28/11 14:57	DJS		
Metals								
Mercury	0.0005	mg/L	0.0002	245.1	03/24/11 15:27	JRT	7439-97-6	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	12672-29-6	
PCB-1254	0.3	ug/L	0.1	608	03/25/11 16:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/25/11 16:32	JANB	11096-82-5	
PCB, Total	0.3	ug/L	0.1	608	03/25/11 16:32	JANB	1336-36-3	
Organics - Semi-Volatiles								
F-Scan								
Cresylic Acid	Not detected	ug/L	300	8270C	03/28/11 18:46	PL		
p,m-Cresol	Not detected	ug/L	300	8270C	03/28/11 18:46	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	300	8270C	03/28/11 18:46	PL	95-48-7	
Nitrobenzene	Not detected	ug/L	300	8270C	03/28/11 18:46	PL	98-95-3	
Pyridine	Not detected	ug/L	300	8270C	03/28/11 18:46	PL	110-86-1	
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/l	5,000	8260M	03/24/11 21:10	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/L	10	8260B	03/24/11 20:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/24/11 20:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	03/24/11 20:11	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/24/11 20:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/24/11 20:11	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	75-69-4	

Lab Sample ID: S48152.01 (continued)
Sample Tag: F36-Final Rinse - Floor (032111)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/24/11 20:11	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/24/11 20:11	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	71-43-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	79-01-6	
Toluene	3	ug/L	1	8260B	03/24/11 20:11	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	127-18-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	108-90-7	
Ethylbenzene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/24/11 20:11	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	03/24/11 20:11	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/L	100	8260B	03/24/11 20:11	WAT		
Cyclohexanone	Not detected	ug/L	100	8260B	03/24/11 20:11	WAT		
Ethyl Acetate	Not detected	ug/L	100	8260B	03/24/11 20:11	WAT		
Other / Misc.								
Alcohols								
n-Butyl Alcohol	Not detected	ug/L	800	8015B	03/24/11 12:00	Fiber		O
Isobutyl Alcohol	Not detected	ug/L	800	8015B	03/24/11 12:00	Fiber		O
Methyl Alcohol	Not detected	ug/L	500	8015B	03/24/11 12:00	Fiber		O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48152.02
Sample Tag: F36-Final Rinse - Sump (032111)
Collected Date/Time: 03/21/2011 16:00
Matrix: Liquid
COC Reference: 61200

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	1L Amber	None	Yes	4.0	IR
2	40ml Glass	HCL	Yes	4.0	IR
2	40ml Glass	None	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	03/25/11 17:40	DLR		
Extraction, PCB	Completed			3510C	03/24/11 18:33	EMR		
Mercury Digestion	Completed			7471A	03/24/11 12:00	JRT		
Inorganics								
Flash Point	Not detected	oF	180	ASTM D3278	03/28/11 14:57	DJS		
Metals								
Mercury	Not detected	mg/L	0.0002	245.1	03/24/11 15:29	JRT	7439-97-6	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	2	608	03/25/11 13:23	JANB	12674-11-2	Y
PCB-1221	Not detected	ug/L	2	608	03/25/11 13:23	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/L	2	608	03/25/11 13:23	JANB	11141-16-5	Y
PCB-1242	Not detected	ug/L	2	608	03/25/11 13:23	JANB	53469-21-9	Y
PCB-1248	Not detected	ug/L	2	608	03/25/11 13:23	JANB	12672-29-6	Y
PCB-1254	12	ug/L	2	608	03/25/11 13:23	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/L	2	608	03/25/11 13:23	JANB	11096-82-5	Y
PCB, Total	12	ug/L	2	608	03/25/11 13:23	JANB	1336-36-3	Y
Organics - Semi-Volatiles								
F-Scan								
Cresylic Acid	Not detected	ug/L	300	8270C	03/28/11 17:50	PL		
p,m-Cresol	Not detected	ug/L	300	8270C	03/28/11 17:50	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	300	8270C	03/28/11 17:50	PL	95-48-7	
Nitrobenzene	Not detected	ug/L	300	8270C	03/28/11 17:50	PL	98-95-3	
Pyridine	Not detected	ug/L	300	8270C	03/28/11 17:50	PL	110-86-1	
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/l	5,000	8260M	03/24/11 21:26	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/L	10	8260B	03/24/11 20:30	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/24/11 20:30	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	03/24/11 20:30	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/24/11 20:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/24/11 20:30	WAT	75-71-8	

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S48152.02 (continued)
Sample Tag: F36-Final Rinse - Sump (032111)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics (continued)								
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	75-69-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/24/11 20:30	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/24/11 20:30	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	71-43-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	79-01-6	
Toluene	5	ug/L	1	8260B	03/24/11 20:30	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	127-18-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	108-90-7	
Ethylbenzene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/24/11 20:30	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	03/24/11 20:30	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/L	100	8260B	03/24/11 20:30	WAT		
Cyclohexanone	Not detected	ug/L	100	8260B	03/24/11 20:30	WAT		
Ethyl Acetate	Not detected	ug/L	100	8260B	03/24/11 20:30	WAT		
Other / Misc.								
Alcohols								
n-Butyl Alcohol	Not detected	ug/L	800	8015B	03/24/11 12:00	Fiber		O
Isobutyl Alcohol	Not detected	ug/L	800	8015B	03/24/11 12:00	Fiber		O
Methyl Alcohol	Not detected	ug/L	500	8015B	03/24/11 12:00	Fiber		O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48152.03
Sample Tag: Trip Blank - 01
Collected Date/Time: 03/21/2011 :
Matrix: Liquid
COC Reference: 61200

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/l	5,000	8260M	03/24/11 21:42	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/L	10	8260B	03/24/11 20:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/24/11 20:50	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	03/24/11 20:50	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/24/11 20:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/24/11 20:50	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	75-69-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/24/11 20:50	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/24/11 20:50	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	71-43-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	79-01-6	
Toluene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	127-18-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	108-90-7	
Ethylbenzene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/24/11 20:50	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	03/24/11 20:50	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/L	100	8260B	03/24/11 20:50	WAT		
Cyclohexanone	Not detected	ug/L	100	8260B	03/24/11 20:50	WAT		
Ethyl Acetate	Not detected	ug/L	100	8260B	03/24/11 20:50	WAT		

Fibertec
environmental
services

Tuesday, March 29, 2011

Fibertec Project Number: 43778
Project Identification: 48152 /
Submittal Date: 03/23/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Samples were received at 12 degrees Celsius.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48152.01**	Chain of Custody:	**61513**
Client Project Name:	**48152**	Sample No:	**1**	Collect Date:	**03/21/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**15:35**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Semivolatile Compounds by GC-FID (FES S-229/EPA 8015C) **Aliquot ID: 43778-001** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. n-Butanol (NN)	U		µg/L	800	1.0	03/24/11	PS11C24E	03/24/11	S811C24A
2. Isobutanol (NN)	U		µg/L	800	1.0	03/24/11	PS11C24E	03/24/11	S811C24A
3. Methanol	U		µg/L	500	1.0	03/24/11	PS11C24E	03/24/11	S811C24A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48152.02**	Chain of Custody:	**61513**
Client Project Name:	**48152**	Sample No:	**2**	Collect Date:	**03/21/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Semivolatile Compounds by GC-FID (FES S-229/EPA 8015C) **Aliquot ID: 43778-002** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. n-Butanol (NN)	U		µg/L	800	1.0	03/24/11	PS11C24E	03/24/11	S811C24A
2. Isobutanol (NN)	U		µg/L	800	1.0	03/24/11	PS11C24E	03/24/11	S811C24A
3. Methanol	U		µg/L	500	1.0	03/24/11	PS11C24E	03/24/11	S811C24A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61200

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive; Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: (See Contract For Details) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert W. Hare SAME:
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. old woodward Avenue; Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00900
SAMPLER(S) - PLEASE PRINT/SIGN NAME:
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD ☒ OTHER 5-day
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG #DENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Ignitability	Metals (See Attached Sheet)	PCB	Mercury	SPECIAL INSTRUCTIONS/NOTES
481520.01	3/21/11	1535	F36-Final Rinse-Floor(032111)	L	9	6	2	1					X	X	X	X	⊛ Please also send copy of invoice to Micki Hinki (ARCADIS)
.02	3/21/11	1600	F36-Final Rinse-Sump(032111)	L	9	6	2	1					X	X	X	X	
.03	3/21/11		Trip Blank-01	L	1									X			(Lab Filled)

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	3/22/11	1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION	3-22-11	1510
RECEIVED BY: SIGNATURE/ORGANIZATION	3-22-11	1510
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Sample Analysis Will Include:

- Standard VOC (USEPA Method 8260): **2-Ethoxyethanol, 2-Nitropropane**, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Acetone, Benzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chlorinated Fluorocarbons, Ethyl Benzene, Ethyl Ether, Methylene Chloride, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, ortho-Dichlorobenzene, Tetrachloroethylene, Toluene, Trichloroethylene, Trichlorofluoromethane, and Xylenes.

- F-Scan VOC (USEPA Method 8260): Cyclohexanone, Ethyl Acetate

- USEPA Method 8015: Isobutanol, methanol, and n-butyl alcohol

- F-Scan SVOC (USEPA Method 8270): Cresols, Cresylic Acid, Nitrobenzene, and Pyridine

Trip Blank Analysis will include:

- Standard VOC list from above
- F-Scan VOCs from above

Analytical Laboratory Report

Report ID: S48151.01(01)
Generated on 03/29/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48151.01-S48151.04
Project: B0064410.2011.00900
Collected Date: 03/22/2011
Submitted Date/Time: 03/22/2011 15:10
Sampled by: Unknown
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48151.01	F36-SS1 (032211)	Soil	03/22/2011 08:45
S48151.02	F36-SS2 (032211)	Soil	03/22/2011 09:00
S48151.03	F36-SS3 (032211)	Soil	03/22/2011 09:15
S48151.04	Trip Blank - 02	Liquid	03/22/2011

Analytical Laboratory Report

Lab Sample ID: S48151.01
Sample Tag: F36-SS1 (032211)
Collected Date/Time: 03/22/2011 08:45
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.0	IR
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	03/24/11 18:50	DLR		
Extraction, PCB	Completed			3550B	03/23/11 22:41	EMR		
Mercury Digestion	Completed			7471A	03/28/11 13:00	JRT		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	1030	03/28/11 14:41	DJS		
Total Solids	86	%	1	Std M 2540 B	03/24/11 13:00	DJS		
Metals								
Mercury	0.060	mg/kg	0.050	7471A	03/28/11 16:07	JRT	7439-97-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	11097-69-1	J
PCB-1260	Not detected	ug/kg	330	8082	03/25/11 15:12	JANB	11096-82-5	
Organics - Semi-Volatiles								
F-Scan								
Cresylic Acid	Not detected	ug/kg	600	8270C	03/28/11 19:42	PL		X
p,m-Cresol	Not detected	ug/kg	1,200	8270C	03/28/11 19:42	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	600	8270C	03/28/11 19:42	PL	95-48-7	X
Nitrobenzene	Not detected	ug/kg	600	8270C	03/28/11 19:42	PL	98-95-3	X
Pyridine	Not detected	ug/kg	600	8270C	03/28/11 19:42	PL	110-86-1	X
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/kg	2,000	8260M	03/24/11 20:05	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/24/11 18:51	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/24/11 18:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/24/11 18:51	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/kg	1,100	8260B/5035	03/24/11 18:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/24/11 18:51	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/24/11 18:51	WAT	75-69-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/24/11 18:51	WAT	75-09-2	

J-Estimated value less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference

Lab Sample ID: S48151.01 (continued)
Sample Tag: F36-SS1 (032211)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics (continued)								
1,1,1-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/24/11 18:51	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	71-43-2	
Trichloroethene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	79-01-6	
Toluene	Not detected	ug/kg	100	8260B/5035	03/24/11 18:51	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	127-18-4	
Chlorobenzene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	108-90-7	
Ethylbenzene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/24/11 18:51	WAT		
o-Xylene	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/24/11 18:51	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	70	8260B/5035	03/24/11 18:51	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/kg	4,000	8260B/5035	03/24/11 18:51	WAT		
Cyclohexanone	Not detected	ug/kg	4,000	8260B/5035	03/24/11 18:51	WAT		
Ethyl Acetate	Not detected	ug/kg	4,000	8260B/5035	03/24/11 18:51	WAT		
Other / Misc.								
Alcohols								
n-Butyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O
Isobutyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O
Methyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48151.02
Sample Tag: F36-SS2 (032211)
Collected Date/Time: 03/22/2011 09:00
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.0	IR
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	03/24/11 18:50	DLR		
Extraction, PCB	Completed			3550B	03/23/11 22:41	EMR		
Mercury Digestion	Completed			7471A	03/28/11 13:00	JRT		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	1030	03/28/11 14:41	DJS		
Total Solids	87	%	1	Std M 2540 B	03/24/11 13:00	DJS		
Metals								
Mercury	Not detected	mg/kg	0.050	7471A	03/28/11 16:10	JRT	7439-97-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082	03/24/11 15:14	JANB	11096-82-5	
Organics - Semi-Volatiles								
F-Scan								
Cresylic Acid	Not detected	ug/kg	300	8270C	03/28/11 18:09	PL		
p,m-Cresol	Not detected	ug/kg	300	8270C	03/28/11 18:09	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	300	8270C	03/28/11 18:09	PL	95-48-7	
Nitrobenzene	Not detected	ug/kg	300	8270C	03/28/11 18:09	PL	98-95-3	
Pyridine	Not detected	ug/kg	300	8270C	03/28/11 18:09	PL	110-86-1	
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/kg	2,000	8260M	03/24/11 20:21	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/24/11 19:11	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/24/11 19:11	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/24/11 19:11	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/kg	960	8260B/5035	03/24/11 19:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/24/11 19:11	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/24/11 19:11	WAT	75-69-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/24/11 19:11	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/24/11 19:11	WAT	108-10-1	

Lab Sample ID: S48151.02 (continued)
Sample Tag: F36-SS2 (032211)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics (continued)								
Carbon tetrachloride	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	71-43-2	
Trichloroethene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	79-01-6	
Toluene	Not detected	ug/kg	100	8260B/5035	03/24/11 19:11	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	127-18-4	
Chlorobenzene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	108-90-7	
Ethylbenzene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/24/11 19:11	WAT		
o-Xylene	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/24/11 19:11	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	60	8260B/5035	03/24/11 19:11	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/kg	3,000	8260B/5035	03/24/11 19:11	WAT		
Cyclohexanone	Not detected	ug/kg	3,000	8260B/5035	03/24/11 19:11	WAT		
Ethyl Acetate	Not detected	ug/kg	3,000	8260B/5035	03/24/11 19:11	WAT		
Other / Misc.								
Alcohols								
n-Butyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O
Isobutyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O
Methyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48151.03
Sample Tag: F36-SS3 (032211)
Collected Date/Time: 03/22/2011 09:15
Matrix: Soil
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	4oz Glass	None	Yes	4.0	IR
1	40ml Glass	MeOH	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3550B	03/24/11 18:50	DLR		
Extraction, PCB	Completed			3550B	03/23/11 22:41	EMR		
Mercury Digestion	Completed			7471A	03/28/11 13:00	JRT		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	1030	03/28/11 14:41	DJS		
Total Solids	77	%	1	Std M 2540 B	03/24/11 13:00	DJS		
Metals								
Mercury	Not detected	mg/kg	0.050	7471A	03/28/11 16:12	JRT	7439-97-6	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082	03/25/11 15:22	JANB	11096-82-5	
Organics - Semi-Volatiles								
F-Scan								
Cresylic Acid	Not detected	ug/kg	400	8270C	03/28/11 20:01	PL		X
p,m-Cresol	Not detected	ug/kg	900	8270C	03/28/11 20:01	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/kg	400	8270C	03/28/11 20:01	PL	95-48-7	X
Nitrobenzene	Not detected	ug/kg	400	8270C	03/28/11 20:01	PL	98-95-3	X
Pyridine	Not detected	ug/kg	400	8270C	03/28/11 20:01	PL	110-86-1	X
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/kg	2,000	8260M	03/24/11 20:37	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/24/11 19:31	WAT	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/24/11 19:31	WAT	67-64-1	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/24/11 19:31	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/kg	1,200	8260B/5035	03/24/11 19:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/24/11 19:31	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/24/11 19:31	WAT	75-69-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/24/11 19:31	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	71-55-6	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S48151.03 (continued)
Sample Tag: F36-SS3 (032211)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics (continued)								
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/24/11 19:31	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	56-23-5	
Benzene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	71-43-2	
Trichloroethene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	79-01-6	
Toluene	Not detected	ug/kg	200	8260B/5035	03/24/11 19:31	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	127-18-4	
Chlorobenzene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	108-90-7	
Ethylbenzene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/24/11 19:31	WAT		
o-Xylene	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/24/11 19:31	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/kg	80	8260B/5035	03/24/11 19:31	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/kg	4,000	8260B/5035	03/24/11 19:31	WAT		
Cyclohexanone	Not detected	ug/kg	4,000	8260B/5035	03/24/11 19:31	WAT		
Ethyl Acetate	Not detected	ug/kg	4,000	8260B/5035	03/24/11 19:31	WAT		
Other / Misc.								
Alcohols								
n-Butyl Alcohol	Not detected	ug/kg	4,700	8015B	03/24/11 12:00	Fiber		O
Isobutyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O
Methyl Alcohol	Not detected	ug/kg	4,400	8015B	03/24/11 12:00	Fiber		O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48151.04
Sample Tag: Trip Blank - 02
Collected Date/Time: 03/22/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
2-Ethoxyethanol	Not detected	ug/l	5,000	8260M	03/24/11 20:54	JGH		
Volatile Organics								
Diethyl ether	Not detected	ug/L	10	8260B	03/24/11 19:51	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/24/11 19:51	WAT	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	03/24/11 19:51	WAT	75-15-0	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/24/11 19:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/24/11 19:51	WAT	75-71-8	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	75-69-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/24/11 19:51	WAT	75-09-2	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/24/11 19:51	WAT	108-10-1	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	71-43-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	79-01-6	
Toluene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	108-88-3	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	127-18-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	108-90-7	
Ethylbenzene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/24/11 19:51	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	95-47-6	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	95-50-1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	1	8260B	03/24/11 19:51	WAT	76-13-1	
Volatile Organics								
2-Nitropropane	Not detected	ug/L	100	8260B	03/24/11 19:51	WAT		
Cyclohexanone	Not detected	ug/L	100	8260B	03/24/11 19:51	WAT		
Ethyl Acetate	Not detected	ug/L	100	8260B	03/24/11 19:51	WAT		

Fibertec
environmental
services

Tuesday, March 29, 2011

Fibertec Project Number: 43777
Project Identification: 48151 /
Submittal Date: 03/23/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Samples were received at 12 degrees Celsius.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48151.01**	Chain of Custody:	**61512**
Client Project Name:	**48151**	Sample No:	**1**	Collect Date:	**03/22/11**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:45**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 43777-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**10**		%	0.1	1.0	03/23/11	MC110323	03/24/11	MC110323

Semivolatile Compounds by GC-FID (FES S-229/EPA 8015C) **Aliquot ID: 43777-001** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. n-Butanol (NN)	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
2. Isobutanol (NN)	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
3. Methanol	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48151.02**	Chain of Custody:	**61512**
Client Project Name:	**48151**	Sample No:	**2**	Collect Date:	**03/22/11**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 43777-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	03/23/11	MC110323	03/24/11	MC110323

Semivolatile Compounds by GC-FID (FES S-229/EPA 8015C) **Aliquot ID: 43777-002** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. n-Butanol (NN)	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
2. Isobutanol (NN)	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
3. Methanol	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48151.03**	Chain of Custody:	**61512**
Client Project Name:	**48151**	Sample No:	**3**	Collect Date:	**03/22/11**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 43777-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**30**		%	0.1	1.0	03/23/11	MC110323	03/24/11	MC110323

Semivolatile Compounds by GC-FID (FES S-229/EPA 8015C) **Aliquot ID: 43777-003** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. n-Butanol (NN)	U		µg/kg	4700	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
2. Isobutanol (NN)	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A
3. Methanol	U		µg/kg	4400	1.0	03/24/11	PS11C24F	03/24/11	S811C24A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

(Soil Samples)

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

(*Please also send copy of invoice to Mick Mink (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive; Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO: (See Contract For Details) FAX NO: P.O. NO.: QUOTE NO.:
E-MAIL ADDRESS:

INVOICE TO

CONTACT NAME: Mr. Robert W. Hare SAME ☐
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. Old Woodward Avenue; Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO: 313-486-2928 FAX NO: — P.O. NO.: MLT 1295

PROJECT NO./NAME: B0064410.2011.00900
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD ☒ OTHER 5 day

DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	Ignitability	8260 Aromatics	PCB	Mercury
481510.01	3-22-11	0845	F36 [redacted]-SS1 (032211)	S	3	2					1		X	X	X	X
.02	3-22-11	0900	F36 [redacted]-SS2 (032211)	S	3	2					1		X	X	X	X
.03	3-22-11	0915	F36 [redacted]-SS3 032211)	S	3	2					1		X	X	X	X
.04			[redacted] Trip Blank-02	L	1						X			X		

(Lab Filled)

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	3/22/11	1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION		
RECEIVED BY: SIGNATURE/ORGANIZATION		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	3-22-11	1570
	3-22-11	1570

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Sample Analysis Will Include:

- Standard VOC (USEPA Method 8260): **2-Ethoxyethanol, 2-Nitropropane**, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Acetone, Benzene, Carbon Disulfide, Carbon Tetrachloride, Chlorobenzene, Chlorinated Fluorocarbons, Ethyl Benzene, Ethyl Ether, Methylene Chloride, Methyl Ethyl Ketone, Methyl Isobutyl Ketone, ortho-Dichlorobenzene, Tetrachloroethylene, Toluene, Trichloroethylene, Trichlorofluoromethane, and Xylenes.

- F-Scan VOC (USEPA Method 8260): Cyclohexanone, Ethyl Acetate

- USEPA Method 8015: Isobutanol, methanol, and n-butyl alcohol

- F-Scan SVOC (USEPA Method 8270): Cresols, Cresylic Acid, Nitrobenzene, and Pyridine

Trip Blank Analysis will include:

- Standard VOC list from above
- F-Scan VOCs from above

Analytical Laboratory Report

Report ID: S48254.01(01)
Generated on 04/05/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48254.01-S48254.03
Project: B0064410.2011.00900
Collected Date: 04/04/2011
Submitted Date/Time: 04/04/2011 14:00
Sampled by: Corri Zilio
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48254.01	F36-Floor(040411)-WS	Wipe	04/04/2011 10:00
S48254.02	F36-Paint(040411)-SD	Solid	04/04/2011 10:20
S48254.03	F36-Sump(040411)-WS	Wipe	04/04/2011 10:40

Analytical Laboratory Report

Lab Sample ID: S48254.01
Sample Tag: F36-Floor(040411)-WS
Collected Date/Time: 04/04/2011 10:00
Matrix: Wipe
COC Reference: 61204

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	04/04/11 23:54	EMR		
Organics - PCBs/Pesticides								
PCB Swab List								
PCB-1016	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	12674-11-2	
PCB-1221	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	11141-16-5	
PCB-1242	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	53469-21-9	
PCB-1248	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	11097-69-1	J
PCB-1260	Not detected	ug/100cm2	1	8082	04/05/11 13:26	JANB	11096-82-5	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S48254.02
Sample Tag: F36-Paint(040411)-SD
Collected Date/Time: 04/04/2011 10:20
Matrix: Solid
COC Reference: 61204

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	04/04/11 23:51	EMR		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	11141-16-5	
PCB-1248	1,500	ug/kg	1,000	8082	04/05/11 14:32	JANB	12672-29-6	Q
PCB-1254	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	11097-69-1	V
PCB-1260	Not detected	ug/kg	1,000	8082	04/05/11 14:32	JANB	11096-82-5	

Q-Reported result represents most abundant aroclor
V-Accurate value not available due to presence of multiple aroclors

Analytical Laboratory Report

Lab Sample ID: S48254.03
Sample Tag: F36-Sump(040411)-WS
Collected Date/Time: 04/04/2011 10:40
Matrix: Wipe
COC Reference: 61204

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	04/04/11 23:54	EMR		
Organics - PCBs/Pesticides								
PCB Swab List								
PCB-1016	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	12674-11-2	Y
PCB-1221	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	11104-28-2	Y
PCB-1232	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	11141-16-5	Y
PCB-1242	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	53469-21-9	Y
PCB-1248	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	12672-29-6	Y
PCB-1254	50	ug/100cm2	5	8082	04/05/11 13:40	JANB	11097-69-1	Y
PCB-1260	Not detected	ug/100cm2	5	8082	04/05/11 13:40	JANB	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61204

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan / Liz Marsh / Amy Conover
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive Ste 100
CITY: Brighton | STATE: MI | ZIP CODE: 48116
PHONE NO.: | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: (SEE CONTRACT FOR DETAILS) | QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert Hoar | ☐ SAME
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. Old Woodward Ave Ste 370
CITY: Birmingham | STATE: MI | ZIP CODE: 48009
PHONE NO.: 313-486-2928 | FAX NO.: | P.O. NO.: MLT-1295

PROJECT NO./NAME: B006441O.2011.00900
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio

TURNAROUND TIME REQUIRED: ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: *Also please send copy of invoice to Micki Maki (ARCADIS)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Total PCB
48259.01	4/4/11	1000	F36-Floor(040411)-WS	WS	1	X						X	X
.02	4/4/11	1020	F36-Paint(040411)-SD	SD	1	X						X	X
.03	4/4/11	1040	F36-Sump(040411)-WS	WS	1	X						X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio / ARCADIS	4/4/11	1130
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	4-4-11	1130
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	4-4-11	1400
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Andrew Ball	4/4/11	1402

SEAL NO.: | SEAL INTACT YES ☐ NO ☐ | INITIALS:
SEAL NO.: | SEAL INTACT YES ☐ NO ☐ | INITIALS:

NOTES: TEMP. ON ARRIVAL 4.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48141.01(01)
Generated on 03/29/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48141.01-S48141.03
Project: B0064410.2011.00900
Collected Date: 03/21/2011 - 03/22/2011
Submitted Date/Time: 03/22/2011 15:10
Sampled by: Unknown
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48141.01	F36-Firstwash-Sump (032111)	Liquid	03/21/2011 15:30
S48141.02	F36-Firstwash-Floor (032111)	Liquid	03/21/2011 15:00
S48141.03	F36-Solids (032211)	Solid	03/22/2011 10:00

Analytical Laboratory Report

Lab Sample ID: S48141.01
Sample Tag: F36-Firstwash-Sump (032111)
Collected Date/Time: 03/21/2011 15:30
Matrix: Liquid
COC Reference: 60506

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	1L Amber	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	03/22/11 23:48	EMR		
Mercury Digestion	Completed			7471A	03/28/11 10:30	JRT		
Metal Digestion	Completed			3015A	03/25/11 01:00	SLR		
TCLP Zero Headspace Ext.	<5.0%			1311	03/24/11 17:00	WAR		
TCLP/SPLP BNA Extraction	Completed			3510C	03/25/11 17:39	DLR		
TCLP Extraction								
Inital Sample pH	<0.5%			1311	03/24/11 17:00	WAR		
pH after 3.5 ml HCl	<0.5%			1311	03/24/11 17:00	WAR		
% Solids	<0.5%			1311	03/24/11 17:00	WAR		
Sample Used g	<0.5%			1311	03/24/11 17:00	WAR		
Final Volume mL	<0.5%			1311	03/24/11 17:00	WAR		
TCLP Extraction Fluid	<0.5%			1311	03/24/11 17:00	WAR		
Final Extract pH	<0.5%			1311	03/24/11 17:00	WAR		
Inorganics								
Flash Point	Not detected	oF	180	ASTM D3278	03/28/11 14:57	DJS	<140	
pH	9.17	STD Units	0.1	9045D	03/29/11 16:39	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	1	335.4/4500-CN-E	03/26/11 13:48	JDP		
Reactive Sulfide	Not detected	mg/kg	4	4500-S2 D	03/26/11 10:48	JDP		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	6020	03/25/11 14:35	SLS	5.0	
Barium, TCLP	0.08	mg/L	0.05	6020	03/25/11 14:35	SLS	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	6020	03/25/11 14:35	SLS	1.0	
Chromium, TCLP	0.05	mg/L	0.05	6020	03/25/11 14:35	SLS	5.0	
Lead, TCLP	0.06	mg/L	0.03	6020	03/25/11 14:35	SLS	5.0	
Mercury, TCLP	Not detected	mg/L	0.0005	7471A	03/28/11 15:29	JRT	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	6020	03/25/11 14:35	SLS	1.0	
Silver, TCLP	Not detected	mg/L	0.005	6020	03/25/11 14:35	SLS	5.0	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1221	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1232	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1242	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1248	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1254	100	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB-1260	Not detected	ug/L	20	608	03/23/11 15:18	JANB		Y
PCB, Total	100	ug/L	20	608	03/23/11 15:18	JANB		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S48141.01 (continued)
Sample Tag: F36-Firstwash-Sump (032111)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 19:05	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 19:05	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:05	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:05	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:05	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	8270C	03/28/11 19:05	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	8270C	03/28/11 19:05	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	8270C	03/28/11 19:05	PL	500	
Hexachloroethane	Not detected	ug/L	100	8270C	03/28/11 19:05	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	8270C	03/28/11 19:05	PL	2,000	
Pyridine	Not detected	ug/L	100	8270C	03/28/11 19:05	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	500	
Chlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	100,000	
Chloroform	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	8260B	03/25/11 19:04	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	700	
Trichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	500	
Vinyl chloride	Not detected	ug/L	100	8260B	03/25/11 19:04	WAT	200	

Analytical Laboratory Report

Lab Sample ID: S48141.02
Sample Tag: F36-Firstwash-Floor (032111)
Collected Date/Time: 03/21/2011 15:00
Matrix: Liquid
COC Reference: 60506

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	1L Amber	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	03/22/11 23:48	EMR		
Mercury Digestion	Completed			7471A	03/28/11 10:30	JRT		
Metal Digestion	Completed			3015A	03/25/11 01:00	SLR		
TCLP Zero Headspace Ext.	<5.0%			1311	03/24/11 17:00	WAR		
TCLP/SPLP BNA Extraction	Completed			3510C	03/25/11 17:39	DLR		
TCLP Extraction								
Inital Sample pH	<0.5%			1311	03/24/11 17:00	WAR		
pH after 3.5 ml HCl	<0.5%			1311	03/24/11 17:00	WAR		
% Solids	<0.5%			1311	03/24/11 17:00	WAR		
Sample Used g	<0.5%			1311	03/24/11 17:00	WAR		
Final Volume mL	<0.5%			1311	03/24/11 17:00	WAR		
TCLP Extraction Fluid	<0.5%			1311	03/24/11 17:00	WAR		
Final Extract pH	<0.5%			1311	03/24/11 17:00	WAR		
Inorganics								
Flash Point	Not detected	oF	180	ASTM D3278	03/28/11 14:57	DJS	<140	
pH	8.61	STD Units	0.1	9045D	03/29/11 16:39	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	1	335.4/4500-CN-E	03/26/11 13:50	JDP		
Reactive Sulfide	Not detected	mg/kg	4	4500-S2 D	03/26/11 10:50	JDP		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	6020	03/25/11 14:38	SLS	5.0	
Barium, TCLP	Not detected	mg/L	0.05	6020	03/25/11 14:38	SLS	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	6020	03/25/11 14:38	SLS	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	6020	03/25/11 14:38	SLS	5.0	
Lead, TCLP	0.06	mg/L	0.03	6020	03/25/11 14:38	SLS	5.0	
Mercury, TCLP	Not detected	mg/L	0.0005	7471A	03/28/11 15:31	JRT	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	6020	03/25/11 14:38	SLS	1.0	
Silver, TCLP	Not detected	mg/L	0.005	6020	03/25/11 14:38	SLS	5.0	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		
PCB-1221	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		
PCB-1232	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		
PCB-1242	0.6	ug/L	0.1	608	03/25/11 11:59	JANB		Q
PCB-1248	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		
PCB-1254	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		V
PCB-1260	Not detected	ug/L	0.1	608	03/25/11 11:59	JANB		
PCB, Total	0.6	ug/L	0.1	608	03/25/11 11:59	JANB		

Q-Reported result represents most abundant aroclor
V-Accurate value not available due to presence of multiple aroclors

Lab Sample ID: S48141.02 (continued)
Sample Tag: F36-Firstwash-Floor (032111)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 19:24	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 19:24	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:24	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:24	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 19:24	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	8270C	03/28/11 19:24	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	8270C	03/28/11 19:24	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	8270C	03/28/11 19:24	PL	500	
Hexachloroethane	Not detected	ug/L	100	8270C	03/28/11 19:24	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	8270C	03/28/11 19:24	PL	2,000	
Pyridine	Not detected	ug/L	100	8270C	03/28/11 19:24	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	500	
Chlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	100,000	
Chloroform	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	8260B	03/25/11 19:22	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	700	
Trichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	500	
Vinyl chloride	Not detected	ug/L	100	8260B	03/25/11 19:22	WAT	200	

Analytical Laboratory Report

Lab Sample ID: S48141.03
Sample Tag: F36-Solids (032211)
Collected Date/Time: 03/22/2011 10:00
Matrix: Solid
COC Reference: 60506

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3550B	03/23/11 22:41	EMR		
Mercury Digestion	Completed			7471A	03/28/11 10:30	JRT		
Metal Digestion	Completed			3015A	03/25/11 01:00	SLR		
TCLP Zero Headspace Ext.	Completed			1311	03/24/11 17:00	WAR		
TCLP/SPLP BNA Extraction	Completed			3510C	03/25/11 17:39	DLR		
TCLP Extraction								
Inital Sample pH	9.19			1311	03/24/11 17:00	WAR		
pH after 3.5 ml HCl	2.36			1311	03/24/11 17:00	WAR		
% Solids	100			1311	03/24/11 17:00	WAR		
Sample Used g	100			1311	03/24/11 17:00	WAR		
Final Volume mL	2,000			1311	03/24/11 17:00	WAR		
TCLP Extraction Fluid	1			1311	03/24/11 17:00	WAR		
Final Extract pH	5.52			1311	03/24/11 17:00	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	1030	03/28/11 14:41	DJS		
pH	8.84	STD Units	0.1	9045D	03/29/11 16:39	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	2	335.4/4500-CN-E	03/26/11 13:52	JDP		
Reactive Sulfide	Not detected	mg/kg	5	4500-S2 D	03/26/11 10:52	JDP		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	6020	03/25/11 14:41	SLS	5.0	
Barium, TCLP	0.46	mg/L	0.05	6020	03/25/11 14:41	SLS	100.0	
Cadmium, TCLP	0.019	mg/L	0.005	6020	03/25/11 14:41	SLS	1.0	
Chromium, TCLP	0.19	mg/L	0.05	6020	03/25/11 14:41	SLS	5.0	
Lead, TCLP	Not detected	mg/L	0.03	6020	03/25/11 14:41	SLS	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	7471A	03/28/11 15:33	JRT	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	6020	03/25/11 14:41	SLS	1.0	
Silver, TCLP	Not detected	mg/L	0.005	6020	03/25/11 14:41	SLS	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1242	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1221	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1232	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1248	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1254	12,000	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y
PCB-1260	Not detected	ug/kg	1,500	8082	03/24/11 14:37	JANB		Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S48141.03 (continued)
Sample Tag: F36-Solids (032211)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 18:27	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	8270C	03/28/11 18:27	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 18:27	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 18:27	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	8270C	03/28/11 18:27	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	8270C	03/28/11 18:27	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	8270C	03/28/11 18:27	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	8270C	03/28/11 18:27	PL	500	
Hexachloroethane	Not detected	ug/L	100	8270C	03/28/11 18:27	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	8270C	03/28/11 18:27	PL	2,000	
Pyridine	Not detected	ug/L	100	8270C	03/28/11 18:27	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	500	
Chlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	100,000	
Chloroform	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	8260B	03/25/11 19:40	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	700	
Trichloroethene	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	500	
Vinyl chloride	Not detected	ug/L	100	8260B	03/25/11 19:40	WAT	200	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

60506

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan / Liz March / Amy Conover
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive, Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO. (See Contract For Details) FAX NO. P.O. NO.
E-MAIL ADDRESS QUOTE NO.

INVOICE TO

CONTACT NAME: Mr. Robert W. Hare ☐ SAME
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. old Woodward Avenue, Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO. 313-486-2928 FAX NO. P.O. NO. MLT-1295

PROJECT NO./NAME: B0064410.2011.00900
SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD ☒ OTHER 5-day

DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: (*) Please also send copy of invoice to Micki Mikel (ARCADIS)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	pH, reactability	Reactivity	TCLP VOC	TCLP SVOC	TCLP Metals	PCBs
48141.01	3/21/11	1530	F36-First wash-Sump (032111)	L	4	X							X	X	X	X	X	X
.02	3/21/11	1500	F36-First wash-Floor (032111)	L	4	X							X	X	X	X	X	X
.03	3/22/11	1000	F36-Solids (032211)	SO	1	X							X	X	X	X	X	X

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 3/22/11	TIME 1400
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 3-22-11	TIME 1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 3-22-11	TIME 1510
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 3-22-11	TIME 1510

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

ARCADIS

Appendix C

Manifests

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID005356712
2. Page 1 of: 2
3. Emergency Response Phone: 313-670-6226
4. Manifest Tracking Number: 004772002 FLE

GENERATOR

5. Generator's Name and Mailing Address
RACER Trust - Former GMPT Flint North
401 S. Old Woodward Ave, Suite 370
Birmingham, MI 48009
Generator's Phone: 313-670-6226

Generator's Site Address (if different than mailing address)
RACER Trust - Former GMPT Flint North
902 E Leith
Flint, MI 48550

6. Transporter 1 Company Name: U.S. Industrial Technologies
U.S. EPA ID Number: MIK757944491

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U.S. Industrial Technologies, Inc.
13075 Newburgh
Livonia, MI 48150
Facility's Phone: 734-462-4100
U.S. EPA ID Number: MIK757944491

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non RCRA / Non DOT Regulated Material	Ø	DM	2200	G	029L		
	2. Non RCRA / Non DOT Regulated Material	Ø	DM	2200	G	021L		
	3. Non RCRA / Non DOT Regulated Material	Ø	DM	2200	G	NONE		
	4. Non RCRA / Non DOT Regulated Material	002	DM	0110	G	029L		

14. Special Handling Instructions and Additional Information
1) # RTFN-01 Water Leak/Fact 81/ Flam Room
2) # RTFN-02 Auction Waste 81 - Oil
3) # RTFN-03 Auction Waste 81- Debris
4) # RTFN-04 River Water

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: R. NEWMAN (AGENT FOR RACER) Signature: [signature] Month: 6 Day: 21 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILLIAM DICK Signature: [signature] Month: 06 Day: 22 Year: 11

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number	22. Page	23. Manifest Tracking Number
MID005356712	2	004772002FLE

24. Generator's Name

RACER Trust - Former GMPT Flint North
902 E Leith, Flint, MI 48550 ph: 313-670-8226

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
	Non RCRA / Non DOT Regulated Material	008	DM	0440	G	NONE
	Non RCRA / Non DOT Regulated Material	006	DM	0330	G	029L

GENERATOR

32. Special Handling Instructions and Additional Information

1) # RTFN-05 River Booms & Debris
2) # RTFN-06 36 WMU - Non TSCA Liquids

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID005356712	1	313-670-6226	004772004 FLE

GENERATOR

5. Generator's Name and Mailing Address
RACER Trust - Former GMPT Flint North
401 S. Old Woodward Ave, Suite 370
Birmingham, MI 48009
Generator's Phone: 313-670-6226

Generator's Site Address (if different than mailing address)
RACER Trust - Former GMPT Flint North
902 E Leith
Flint, MI 48550

6. Transporter 1 Company Name: U.S. Industrial Technologies — U.S. EPA ID Number: MIK757944491

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
EQ Detroit, Inc.
1923 Frederick Street
Detroit, MI 48211
Facility's Phone: 313-923-0080 — U.S. EPA ID Number: MID980991566

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non RCRA / Non DOT Regulated Material	002	DM	0110	G	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) 36 WMU - Non TSCA Solids

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: D. NEWCOM (AGENT FOR RACER) — Signature — Month: 10 — Day: 2 — Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILLIAM DICK — Signature — Month: 10 — Day: 02 — Year: 11

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MID005356712	1	313-670-6226	004772003 FLE

GENERATOR

5. Generator's Name and Mailing Address
RACER Trust - Former GMPT Flint North
401 S. Old Woodward Ave, Suite 370
Birmingham, MI 48009
Generator's Phone: 313-670-6226

Generator's Site Address (if different than mailing address)
RACER Trust - Former GMPT Flint North
902 E Leith
Flint, MI 48550

6. Transporter 1 Company Name: U.S. Industrial Technologies — U.S. EPA ID Number: MIK755944491

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Veolia Environmental Services LLC
Highway 73 W of Taylor's Bayou
Port Arthur, TX 77640
Facility's Phone: 409-736-2821
U.S. EPA ID Number: TXD000838896

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN2315, Polychlorinated Biphenyls, liquid,, 9, PG II, (PCBs) ERG: 171	002	DM	0200	K	026L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) 36 WMU - TSCA Liquid - OSD: 3/21/11 Unique #: 056, 057

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
D. NEMECEK (AGENT FOR RACER)		6	2	11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
WILLIAM DICK		06	02	11
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY