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SUMMARY REPORT FOR COMPLETION OF THE SELF-IMPLEMENTING WORK PLAN

2800 and 2801 West Saginaw Stree | Lansing, Michigan
PM Project Number 00-4173-6

Prepared for:

U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

Prepared by:

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December 2016

Ms. Jean M. Greensley
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Summary Report For Completion of the Self-Implementing Work Plan for Polychlorinated Biphenyls For RACER Industrial Property Lansing Plants 2 and 3 Located 2800 and 2801 West Saginaw Street, Lansing, Michigan
Parcel Identification Nos. 33-21-01-18-227-001, 33-21-01-07-426-001 & 33-21-01-18-226-001; USEPA Facility ID No. MID-980-700-827
PM Environmental, Inc. Project 00-4173-6

Dear Ms. Greensley:

Enclosed is a copy of the above-referenced document. This Summary Report is specific to address the polychlorinated biphenyls (PCBs) impact in concrete and sludge regulated under the federal Toxic Substance Control Act (TSCA) and is being submitted to the United States Environmental Protection Agency (USEPA) as notification of completion of the Self-Implementing Work Plan for the subject property (August 2015) in accordance with 40 CFR 761(a)(3).

If you have any questions regarding the information in this report, please contact us at 800-313-2966.

Sincerely,
PM ENVIRONMENTAL, INC.

Robert Hikade
Project Scientist

Casey Armstrong
Regional Manager – Contract Services

Cc: Dave Favero, Deputy Cleanup Manager-Michigan, RACER Trust;
Pete Quackenbush, MDEQ
Deb MacKenzie-Taylor, MDEQ

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1.0 INTRODUCTION

This Summary Report for completion of the Self-Implementing Work Plan (August 2015) was prepared on behalf of The Revitalizing Auto Communities Environmental Response Trust (RACER), 500 Woodward Avenue, Suite 1510, Detroit, Michigan 48226 for the vacant industrial property located at 2800 and 2801 West Saginaw Street, Lansing, Ingham County, Michigan (hereafter referred to as the "Site"), in accordance with Title 40 Code of Federal Regulations, Chapter I, Subchapter R-Toxic Substance Control Act, Subpart 761 (40 CFR 761). Concentrations of polychlorinated biphenyls (PCBs) were detected in sludge within a former waste oil storage vault for the storm water clarifier structure at levels above the federal Toxic Substance Control Act (TSCA) cleanup levels during a sample event conducted by ARCADIS U.S. (ARCADIS) in October 2014. Concentrations of PCBs were detected in concrete at levels above the federal TSCA cleanup levels during sample events conducted by PM in December 2014 and March 2015. The date of the release(s) and the concentration of the original spill(s) are unknown.

This Summary Report addresses PCB impacted sludge within the former 4,000-gallon waste oil storage vault associated with the concrete clarifier structure on the northern portion of Plant 3, and PCB impacted concrete slabs on Plants 2 and 3. PM is submitting this Summary Report to the United States Environmental Protection Agency (USEPA) as notification of completion of PCB cleanup in accordance with 40 CFR 761(a)(3).

1.1 Previous Reports

During preparation of the TSCA Self-Implementing Work Plan for Polychlorinated Biphenyls for RACER Industrial Property Lansing Plants 2 and 3 (Work Plan), PM reviewed the following reports pertaining to previous environmental investigations:

- 2005 – 2008 Concrete Sample Locations and Analytical Results (provided by RACER);
- Clarifier Waste Characterization Analytical Results, October 3, 2014, ARCADIS;
- Clarifier Removal and Site Restoration Project Manual, October 2014, ENG. Engineering and Surveying (ENG).

A copy of the Work Plan, which includes the above referenced previous reports, is included as Appendix A.

1.2 Subject Property Description and Background

On June 1, 2009, General Motors Corporation (GMC) filed for Chapter 11 protection under U.S. Bankruptcy Code. On July 10, 2009, GMC was renamed Motors Liquidation Company (MLC) and on the same day some of the operating assets of GMC were sold to a newly formed company "General Motors Company". General Motors Company changed its name to General Motors LLC (GM LLC) on October 16, 2009. Assets not sold to GM LLC remained the property of the MLC, in its capacity as debtor-in-possession in the bankruptcy case. On March 31, 2011, the environmental remediation of the properties was transferred from MLC to the RACER Trust. Ownership of the properties was transferred to RACER Properties LLC, a wholly owned subsidiary of RACER Trust.

Plant 2 and 3 are part of a larger group of properties referred to as Lansing Plants 2, 3, and 6. Former Lansing Plants 2, 3, and 6 are located at 2801 West Saginaw Street, 2800 West Saginaw Street, and 401 North Verlinden Street, respectively, in Lansing, Ingham County, Michigan. Plant 2 is approximately 63 acres of land, Plant 3 encompasses approximately 104 acres of land, and Plant 6 encompasses approximately 72 acres. Plants 2 and 3 are located in Lansing Township and Plant 6 is located within the City of Lansing. The former Lansing Plants 2, 3, and 6 are located in Township Four North (T. 4N), Range Two West (R. 2W), Sections 7, 17, and 18, Lansing, Ingham County, Michigan (Figure 1). The three plants were constructed in the early 1900s and operations were focused on aspects of automobile manufacturing. Decommissioning of the plants began in 2007 and was completed in 2013.

Currently, the Plants 2, 3, and 6 are unoccupied, all of the buildings have been demolished, and all are secured with perimeter fencing and locked gates. Concrete slabs and asphalt parking lots remain in place at Plants 2 and 3 and approximately 60 percent of these surfaces have been removed at Plant 6. Remaining surface cover consists of concrete building foundations, paved concrete drive areas, asphalt parking areas, crushed concrete with a minimal thickness of six-inches, and areas of seeded topsoil (grass).

The current use of the Site is consistent with a Nonresidential land-use under Michigan Part 201. The property is for sale and the anticipated future use of the Site is expected to be restricted to Nonresidential land-use consistent with Michigan Part 201.

A former storm water treatment clarifier (clarifier) was present near the northern boundary of Plant 3 adjacent to Willow Highway (Figure 2). The clarifier was used to eliminate solids from storm water prior to final discharge to the municipal storm water sewers for conveyance to the Grand River surface water body. The associated 4,000-gallon waste oil storage vault, collected and stored skimmed material transferred from the clarifier structure (Figure 3).

1.3 Clarifier Site Investigations

ENG prepared the Clarifier Removal and Site Restoration Project Manual for the clarifier structure and associated 4,000-gallon waste oil storage vault in October 2014. Proper disposal of the contents of the clarifier and the storage vault were required prior to the decommissioning and removal of the structures. Approximately 355,900-gallons of liquid, including an estimated 1,500 to 9,000-gallons of sediment was initially estimated to be present in the clarifier.

In October 2014, ARCADIS (on behalf of RACER) sampled the liquid, sediment, and sludge within the clarifier and associated storage vault including a thin floating oil/scum layer from within the storage vault for preliminary waste characterization to determine proper disposal methods for the materials prior to completion of clarifier removal activities. One composite liquid waste characterization sample was collected from the clarifier for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, Michigan ten metals (i.e., arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), flashpoint, pH, reactive cyanide, and reactive sulfide. One composite liquid sample and one composite sludge sample was collected from the storage vault and one composite sediment sample was collected from the clarifier and submitted for laboratory analysis of PCBs, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, flashpoint, pH, reactive cyanide, and reactive sulfide. Analytical results of the waste characterization samples are summarized in Section 1.5.

Additionally, in October 2015, sample events were conducted to characterize sediment within the catch basins on the perimeter of the clarifier structure and within the pump station. Sediment was sampled in three storm sewer catch basins (Figure 3). Water and sediment was sampled from the wet well within the pump station associated with the clarifier.

1.4 Concrete Site Investigation

PM reviewed concrete sample analytical results provided by RACER from samples collected at the Site between 2005 and 2008. Concentrations of total PCBs (ranging between 3,500 and 5,000 µg/Kg) were previously identified above the TSCA 40 CFR §761(d)(4), Subpart-D, direct contact criterion for high occupancy use (1,000 ug/Kg) at five sample locations at the Site (Plant 2: Area 4, Area 5.1, and Area 8; Plant 3: Area 11 and Area 14). The previous sample locations provided by RACER were labeled as LAN3-302-F3B, LAN3-304-F3A, 242-B1-P1-001, CC15, and CC72). At the request of RACER, PM developed a work plan to locate the previous sample locations and verify PCB impact with replicate samples. Additional samples were concurrently collected to delineate PCB impact (if identified) in existing concrete slabs at the Site.

In December 2014 and March 2015, PM (on behalf of RACER) collected 55 destructive concrete samples at five areas on the Site where PCB concentrations were reportedly previously detected at levels exceeding TSCA 40 CFR §761(d)(4), Subpart-D, direct contact criterion for high occupancy use (1,000 ug/Kg). Once the general areas of the previous sample points were identified, PM surveyed a 50 foot by 50 foot area encompassing each of the previous five sample locations identified above, and utilized a 12.5-foot sample grid in each survey area for spatial coverage. Concrete samples collected by PM were collected in accordance with the USEPA Region 1 Standard Operation Procedure (SOP) for Sampling Concrete in the Field. The purpose of the initial investigation was to attempt to locate, replicate, and delineate (if applicable) the previous sample locations provided by RACER to determine if a current risk exists.

Figures 4 through 8 depict the general locations of the former concrete samples collected between 2005 and 2008, and the areas and locations of concrete and soil samples collected by PM in December 2014 and March 2015 at the Site. Analytical results of the concrete and soil samples are summarized in Section 1.5.

1.5 Analytical Results

The analytical results for the samples collected were compared with the MDEQ Generic Cleanup Criteria (GCC) and Screening Levels as presented in in the Cleanup Criteria for Response Activity, R 299.1 - R 299.50, dated December 2013, the Resource Conservation and Recovery Act (RCRA) Toxicity Characteristic Regulatory Concentrations and in accordance with Section 20120a(1) using the Residential and Nonresidential GCC, and USEPA TSCA criteria.

The analytical results are summarized in Tables 1 through 8, including individual target analytes and associated chemical abstract service numbers. The laboratory analytical reports are included in Appendix B.

1.5.1 Clarifier Analytical Results

A concentration of total PCBs in the sediment sample (500 µg/kg) collected from sediments located at the base of the clarifier structure was less than the relevant federal TSCA 40 CFR §761(d)(4), Subpart-D, Direct Contact criterion for high occupancy use (1,000 ug/Kg). PCBs were detected in a sample collected from the floating scum within the 4,000-gallon storage vault at a concentration (1,100 µg/Kg) greater than the TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) (Table 1).

Concentrations of VOCs and PCBs were not detected above laboratory MDLs in the composite liquid sample collected from the clarifier. Concentrations of SVOCs and metals were not identified in the composite liquid sample collected from the clarifier above the most restrictive MDEQ Part 201 Residential Generic Cleanup Criteria. A low-level concentration of PCBs (0.2 µg/L) detected in the composite liquid sample collected from the waste oil storage vault did not exceed the TSCA cleanup levels for liquid PCBs discharged to a treatment works (3 µg/L) or the most restrictive MDEQ Part 201 Generic Cleanup Criteria (Table 2).

The results of Resource Conservation and Recovery Act (RCRA) list TCLP VOC, SVOC, and metals analytes for the clarifier and waste oil storage vault sediment and sludge samples were less than laboratory MDLs, and/or less than the RCRA Toxicity Characteristic Regulatory Concentrations (Table 3)

Based upon the analytical results summarized above, disposal recommendations included utilizing a single subcontractor qualified to transport and properly dispose of the Clarifier contents (sediment and water) and provide confined space entry to complete wash down services of the structures.

1.5.2 Concrete Analytical Results

A total of 30 destructive concrete samples (Table 4) were collected from Area 4, Area 5.1, and Area 8 on the Plant 2 portion of the Site, and 25 destructive concrete samples (Table 5) were collected from Area 11, and Area 14 on the Plant 3 portion of the Site (Figures 4 through 8).

No concentrations of PCBs were identified above laboratory MDLs in concrete samples collected from Plant 2 – Area 4 or Area 5-1 (Figure 4 and 5). No concentrations of PCBs were identified above laboratory MDLs and/or TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) in concrete samples collected from Plant 3 – Area 14 (Figure 8).

A concentration of PCBs (1,700 µg/Kg) was identified on Plant 2-Area 8 at sample location Plant-2-001-(I) above the TSCA direct contact criterion for high occupancy use (Figure 6). The extent of impact above the TSCA direct contact criteria is delineated to the north (Plant-2-001-(J)), east (Plant-2-001-(K)), south (Plant-2-001-(L)), and west (Plant-2-001-(M)).

Concentrations of PCBs were identified on Plant 3-Area 11 at sample locations Plant-3-F3A-(B) (1,200 µg/Kg), Plant-3-F3A-(G) (1,500 µg/Kg), Plant-3-F3A-(L) (1,800 µg/Kg), and Plant-3-F3A-(M) (3,800 µg/Kg), above the TSCA direct contact criterion for high occupancy use (Figure 7). The extent of impact above the TSCA direct contact criteria is delineated to the north (Plant-3-

F3A-(J) and Plant-3-F3A-(A)), east (Plant-3-F3A-(C), Plant-3-F3A-(E), and Plant-3-F3A-(O)), south (Plant-3-F3A-(P)), and west (Plant-3-F3A-(D), Plant-3-F3A-(K), and Plant-3-F3A-(N)).

Based upon the concrete sample analytical results from samples collected by PM in 2015, concrete removal and offsite disposal was recommended at Plant 2-Area 8 and Plant 3-Area 11 to satisfy TSCA high occupancy direct contract critiera standards with no cap restrictions.

2.0 PCB REMOVAL ACTIVITIES

In accordance with TSCA Subpart-D and the August 2015 Self-Implementing Work Plan, PCB remediation waste (i.e., waste oil storage tank sludge, and Plant 2-Area 8 and Plant 3-Area 11 concrete) exceeding the TSCA criterion for unrestricted high occupancy (1,000 µg/Kg), was removed from the Site by Plummer's Environmental Services (Plummer's) and/or Mackenzie Company (Mackenzie), overseen by PM, and transported for proper disposal at a licensed disposal facility (Section 2.1 and 2.3). The only exception to this was the PCB-impacted concrete with PCB concentrations greater than 1,000 µg/Kg present on the floor of a portion of the clarifier (Figure 3). Per USEPA's December 8, 2015, approval and in accordance with the self-implementing regulations of 40 CFR 761.61(a)(4)(i)(a), the small portion of impacted concrete was left in place under a 6.0-inch steel mesh reinforced concrete cap meeting the requirements of (a)(7) and (a)(8) of 40 CFR 761.61.

2.1 Clarifier Dewatering and Sediment Removal

Storm water within the vault and the clarifier did not contain detectable concentrations of PCBs; however, results of previous characterization data for the contents of the storage vault, which reportedly formerly contained skimmed oil from the clarifier, documents PCBs were detected greater than 1.0 ppm in a thin floating oil/scum layer. Additionally, PCBs were detected in the sediment in the clarifier itself at 0.5 ppm, which did not exceed TSCA criteria, but resulted in requiring special consideration for disposal of the water in the clarifier that overlies the sediment as the City of Lansing waste water treatment plant (WWTP) would not accept any water that had at one time contained, potentially contained, or was in contact with the sediment containing the low-level concentration of PCBs. Additionally, commercial treatment facilities in Lansing also could not accept the water, since the treated water would eventually be discharged to the City of Lansing WWTP.

Clarifier cleanout activities were completed between September 25 and December 11, 2015. Plummer's staged vacuum trucks along the western portion of the clarifier structures to remove a total of 368,900-gallons of water. Plummer's transported the recovered water from the clarifier structures to their waste water disposal facility located in Byron Center, Michigan. Waste water disposal manifests are included in Appendix C.

Once dewatered, a total of 37,800-gallons of sediment/sludge/washout material was generated during the cleanout activities of the clarifier and associated storage vault. Plummer's used a vacuum truck to remove sediment/sludge/washout material into roll-off boxes where it was temporarily staged on-site before being transported by Plummer's to US Ecology's (formerly EQ) waste handling facility located in Detroit, Michigan. Clarifier sludge disposal manifests are included in Appendix C.

2.2 Clarifier and Storage Vault Concrete Verification Sampling

Upon completion of dewatering and sediment removal, the clarifier structures were pressure washed and cleaned on separate mobilizations, and the exposed concrete structures were subsequently sampled.

A total of 14 destructive concrete samples were collected from the floor of the clarifier and five from the walls and floor of the associated vault in accordance with TSCA 40 CFR Part 761, Subpart O (Section 2.1), to verify PCB cleanup and allow for clarifier structure demolition, decommissioning, removal, and/or disposal procedures to be conducted in accordance with the Clarifier Removal Project Manual (Eng October, 2014). PM collected all destructive concrete samples utilizing the grid pattern sampling procedure in accordance with TSCA 40 CFR Part 761, Subpart O, to confirm PCB cleanup and ensure elevated PCB concentrations are not present where the sludge contacted the vault walls and where sludge settled at the base of the vault and clarifier. Samples were collected using a one-inch diameter carbide drill bit in a rotary impact hammer drill to generate 20 grams of fine concrete powder suitable for analysis of PCBs in general accordance with USEPA method 8082. All surface areas were wiped with a clean dry cloth prior to drilling. A total of nine floor samples were collected from the clarifier (A through I). Due to low-level concentrations of PCBs identified in clarifier concrete verification sample location “E” greater than 1.0 ppm but less than 10.0 ppm, additional concrete floor samples of the clarifier were collected to delineate PCB impact (E-0 through E-4). The concrete in the additional sample locations (E-0 through E-4) was cleaned prior to sample collection. All samples were collected in appropriate sample containers and transported under chain of custody procedures for laboratory analysis within applicable holding times. Concrete samples were submitted to Merit Laboratories, Inc. in East Lansing, Michigan for chemical analysis of PCBs using USEPA Method 8082.

2.2.1 Clarifier Concrete and Vault Analytical Results

Low-level concentrations of PCBs (1,200 - 2,100 µg/Kg) were identified in concrete sample locations E, E-0 and E-4 (Figure 3) greater than the TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg). No concentrations of PCBs were detected in remaining clarifier floor or concrete vault destructive concrete samples at levels greater than than the TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg).

As opposed to cutting and removing the concrete encompassing concrete sample E, E-0, and E-4, a 6.0-inch steel mesh reinforced concrete cap was placed over the impacted concrete. The concrete cap extends to concrete sample locations E-1 through E-3 and sample location D where PCB concentrations were not detected above laboratory MDLs and/or TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg); approximately a 300 square foot area. A geo-textile fabric was placed over the 6.0-inch steel mesh reinforced concrete cap prior to backfilling the area to existing grade. Figure 3 depicts the concrete cap location on a scaled site diagram. A survey of the site which depicts the former clarifier location and area of capped concrete is included as Appendix D.

In additon to the concrete cap, a restrictive covenant (RC) for the entire Site will be prepared as an institutional control and pursuant to 40 CFR Part 761, will include among other notices,

restrictions and prohibitions, the below notice and restriciton. The RC will be recorded with the Ingham County Registrar of Deeds pursuant to Sections 21310a(2) of Part 201.

- PCB Remediation Waste. This provision provides the required notification that an area of PCB Remediation Waste (PCB Area) is present at Plant 3 and is described and illustrated in an exhibit (Appendix D of this report). The PCB Area contains PCB remediation waste with concentrations above 1 ppm and below 10 ppm. The PCB Area meets the requirements for Low Occupancy as defined in 40 CFR 761.

  The Owner shall maintain a cap consistent with the existing cap, or better, over the PCB Area. The existing cap consists of six inches of steel mesh reinforced concrete that serves to prevent direct contact exposure to contaminated concrete at the Property. The six-inch concrete cap has a base elevation of 843.63, 840.82, 841.34, and 842.57 feet above mean sea level (msl) at the cap boundaries (i.e., previous sample locations E-1 through E-3 and D), and is located on the Property as shown in Appendix D. The existing cap at this area serves as a barrier to prevent exposure to PCB impacted material. Any excavation or other intrusive activity that could expose workers to PCBs or affect the integrity of this cap is prohibited, unless proper health and safety requirements are followed and except during short-term construction or repair projects or for purposes of further treating or remediating contamination. Any excavation or other intrusive activity, including removing, altering, or disturbing the cap that could affect the integrity of the cap must be replaced with a cap that provides at least an equivalent degree of protection as the original cap within fourteen (14) days of completion of the work. Repair and/or replacement of the cap must be completed unless additional sampling is conducted that demonstrates that a cap in the specified area is no longer necessary in accordance with the applicable provisions and requirements of 40 CFR 761 and Part 201 of NREPA, and approved by USEPA.

  The Owner shall maintain the PCB Area as a Low Occupancy area. Any removal of the cap from this area or other intrusive activity that could expose workers to PCBs is prohibited, unless proper health and safety requirements are followed and the removed concrete is properly disposed in accordance with 40 CFR 761. The Owner may, with the approval of USEPA, modify the PCB Area to allow for High Occupancy use in accordance with the requirements of 40 CFR 761.

2.3 Concrete Slab Removal

Concrete removal areas were established using analytical results from the existing concrete samples collected from Area 8 (Plant 2-001-(A) through Plant 2-001-(O)) and Area 11 (Plant 3-F3A-(A) through Plant 3-F3A-(P)) in March and December 2015.

Prior to PCB concrete removal, concrete cores were taken to estimate concrete thickness for estimating quantities for off-site disposal and the collection of shallow soil samples from various locations throughout Area 8 (S-1_3-17-2016) and Area 11 (S-1_3-17-2016 through S-2_3-17-2016). An additional four destructive samples were collected from Area 11 to further delineate impacted PCB concrete boundaries (Plant-3-F3A (Q) through Plant-3-F3A (T)). Concrete slab

removal activities were completed between June 20 and June 24, 2016. PM established Area 8 and Area 11 concrete removal boundaries to allow a contractor, Mackenzie, to cut the concrete slabs with a concrete saw. Using a breaker and excavator, Mackenzie removed a total of 155.71 tons of concrete from Area 8 and Area 11, and loaded material directly into trucks to be transported by Mackenzie to C&C Landfill in Marshall, Michigan. Concrete waste disposal manifests are located in Appendix C.

Subsequent to soil verification sample collection and analysis, Mackenzie resurfaced Area 8 with MDOT Grade 22A road gravel compacted with onsite equipment. Area 11 was capped with 4.0-inches of new asphalt to minimize surface water infiltration, in accordance with the long term corrective measures developed for the Site.

2.4 Plant 2 – Area 8 and Plant 3 – Area 11 Verification Sampling

A total of nine verification soil samples were collected from Area 8 (S-1 through S-9) and 12 verification soil samples from Area 11 (S-1 through S-12) utilizing the grid pattern sampling procedure in accordance with TSCA 40 CFR Part 761, Subpart O, to confirm PCB cleanup and ensure elevated PCB concentrations are not present where soil contacted the impacted concrete (Figure 9 and Figure 10). Additionally, co-located duplicates were collected from Area 8 (A-1 [Area 8]) and Area 11 (A-1 [Area 11]) and submitted for quality assurance/quality control (QA/QC) purposes.

The soil samples were collected in appropriate sample containers and placed in a cooler and transported under chain of custody procedures for laboratory analysis within applicable holding times. The soil samples will be submitted to Merit Laboratories, Inc. in East Lansing, Michigan for chemical analysis of PCBs using USEPA Method 8082.

2.4.1 Concrete Removal Verification Soil Analytical Results

No concentrations of PCBs were identified above laboratory MDLs and/or TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) in soil samples collected from Plant 2-Area 8 or Plant 3-Area 11.

3.0 CONCLUSIONS AND RECOMMENDATIONS

In accordance with TSCA Subpart-D and the August 2015 Self-Implementing Work Plan, PCB remediation waste (i.e., waste oil storage tank sludge, and Plant 2-Area 8 and Plant 3-Area 11 concrete) exceeding the TSCA criterion for unrestricted high occupancy (1,000 µg/Kg), was removed from the Site and transported for proper disposal at a licensed disposal facility (Section 2.1 and 2.3).

Clarifier cleanout activities were completed between September 25 and December 11, 2015. A total of 368,900 gallons of residual storm water and 37,800 gallons of sediment, sludge, and/or washout material wash recovered from the clarifier and transported for proper disposal at a licensed disposal facility. Subsequent to cleanout activities, concrete verification samples were collected from the floor of the clarifier and storage vault walls and floor in accordance with TSCA 40 CFR Part 761. Low-level concentrations of PCBs (1,200 - 2,100 µg/Kg) were identified in concrete sample locations E, E-0 and E-4 (Figure 3) greater than the TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg). Per USEPA's December 8, 2015,

approval and in accordance with the self-implementing regulations of 40 CFR 761.61(a)(4)(i)(a, the small portion of impacted concrete was left in place under a 6.0-inch steel mesh reinforced concrete cap meeting the requirements of (a)(7) and (a)(8) of 40 CFR 761.61. In additon to the concrete cap, a notificaiton and restriction specific to the concrete cap area pursuant to 40 CFR Part 761 will be included in the RC being prepared for the entire Site. The RC will be recorded with the Ingham County Registrar of Deeds pursuant to Sections 21310a(2) of Part 201. A survey of the Site which depicts the former clarifier location and area of capped concrete is included as Appendix D.

Concrete slab removal activities were completed between June 20 and June 24, 2016. A total of 155.71 tons of concrete from Area 8 and Area 11, were recovered and transported for proper disposal at a licensed disposal facility. Verification soil samples were collected from Area 8 and Area 11 utilizing the grid pattern sampling procedure in accordance with TSCA 40 CFR Part 761, Subpart O, to confirm PCB cleanup and ensure elevated PCB concentrations are not present where soil contacted the impacted concrete. No concentrations of PCBs were identified above laboratory MDLs and/or TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) in soil samples collected from Plant 2-Area 8 or Plant 3-Area 11.

If you have any questions related to this report, contact our office at (800) 313.2966.

Sincerely,
PM Environmental, Inc.

REPORT PREPARED BY:

Robert Hikade
Project Scientist

Date: December 20, 2016

REPORT REVIEWED BY:

Casey Armstrong
Regional Manager – Contract Services

Date: December 20, 2016

Tables

PM ENVIRONMENTAL Environmental & Engineering Services

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

Polychlorinated Biphenyls (PCBs) **(µg/Kg)**			Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Clarifier Sludge	10/3/2014	NA	500
Waste Oil Storage Tank Sludge	10/3/2014	NA	**1,100**
MH-1	10/12/2015	NA	ND
MH-2	10/12/2015	NA	ND
PSS-1	10/22/2015	NA	ND
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}res}$)			1,900
Nonresidential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}nr}$)			39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	**1,000 µg/Kg**	4,000 µg/Kg
Nonresidential	10,000 µg/Kg	16,000 µg/Kg

	Criterion Exceeded
BOLD	Value Exceeds Criterion
bgs	Below Ground Surface (feet)
NA	Not Applicable
NL	Not Listed
NLL	Not Likely to Leach
NLV	Not Likely to Volatilize
ID	Insufficient Data

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PCBS, SVOCS, VOCS, AND METALS
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

SEMI-VOLATILE ORGANIC COMPOUNDS (µg/L)				Total Polychlorinated Biphenyls	Acenaphthene	bis(2-Ethylhexyl)phthalate	Other SVOCs	Volatile Organic Compounds	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc
Chemical Abstract Service Number (CAS#)				1336363	83329	117817	Various	Various	7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666
Sample ID	**Sample Date**	**Screen Depth (feet bgs)**	**Depth to Groundwater (feet bgs)**	**PCBs**	**SVOCs**			**VOCs**	**MICHIGAN TEN METALS**									
Clarifier Liquid	10/03/15	NA (Composite)	NA	<0.1	<5	5	<MDL	<MDL	2	69	<0.5	<5	<5	<3	<0.2	<5	<0.5	<5
Waste Oil Storage Vault Liquid	10/03/15	NA (Composite)	NA	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pump Station Liquid	10/2/15	NA (Composite)	NA	<0.1	<5	<5	<MDL	<MDL	4	80	<0.5	<5	<5	<3	<0.2	<5	<0.5	11
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**																		
Residential/Nonresidential (µg/L)																		
Residential Drinking Water (Res DW)				0.5 {A}	1,300	6.0 (A)	Various	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	34	2,400
Residential Health Based Drinking Water Values				NL	NL	NL	Various	Various	NL	NL	NL	NL	1,400 {E}	NL	NL	NL	NL	NL
Nonresidential Drinking Water (Nonres DW)				0.5 {A}	3,800	6.0 (A)	Various	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	98	5,000 {E}
Nonresidential Health Based Drinking Water Values				NL	NL	NL	Various	Various	NL	NL	NL	NL	4,000 {E}	NL	NL	NL	NL	NL
Groundwater Surface Water Interface (GSI)				0.2 {M}; 2.6E-5	38	25	Various	Various	10	{G}	{G,X}	11	{G}	{G,X}	0.0013	5.0	0.2 {M}; 0.06	{G}
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) [2]				45 {S}	4,200 {S}	NLV	Various	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) [2]				45 {S}	4,200 {S}	NLV	Various	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV
Screening Levels (µg/L)																		
Residential Groundwater Vapor Intrusion Screening Levels (GW_{VI-res}) [3]				7.4	55,000	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Nonresidential Groundwater Vapor Intrusion Screening Levels (GW_{VI-nr})[3]				37	2.30E+05	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Residential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI-sump-res}$)[4]				0.50	55	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Nonresidential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI-sump-nr}$)[4]				0.50	2.30E+02	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Water Solubility				45	4,200	340	Various	Various	NA	NA	NA	NA	NA	NA	56	NA	NA	NA
Flammability and Explosivity Screening Level				ID	ID	NA	Various	Various	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
DRAFT Acute Vapor Intrusion Screening Levels for Groundwater (µg/L)																		
IRASL Groundwater (AGW_{vi})				NL	NL	NL	Various	Various	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
IRASL Groundwater In Contact With Structure ($AGW_{vi-sump}$)				NL	NL	NL	Various	Various	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Criteria Exceeded

BOLD Value Exceeds Criteria

bgs Below Ground Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

[1] Rule 323.1057 of Part 4 Water Quality Standards

[2] Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

[3] (2013 Vapor Intrusion Guidance) Screening Levels based on depth to groundwater less than 1.5 meters and not in contact with building foundation

[4] (2013 Vapor Intrusion Guidance) Screening levels based on groundwater in contact with the building foundation or within a sump

NA Not Applicable

NL Not Listed

NLL Not Likely to Leach

NLV Not Likely to Volatilize

ID Insufficient Data

TABLE 3
SUMMARY OF WASTE CHARACTERIZATION DATA
FLASHPOINT, pH, REACTIVE CYANIDE, REACTIVE SULFIDE, TCLP METALS/VOCs/SVOCs
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

WASTE CHARACTERIZATION DATA		FLASHPOINT	pH	Reactive Cyanide	Reactive Sulfide	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc	Volatile Organic Compounds	Semi-Volatile Organic Compounds
Chemical Abstract Service Number (CAS#)		NA	NA	NA	NA	7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666	Various	Various
Sample ID	**Sample Date**	**General**				**TCLP Metals**										**TCLP VOCs**	**TCLP SVOCs**
Clarifier Sludge	10/3/14	ND	7.15	ND	ND	40	740	<5	<50	NA	<50	<0.2	<50	<5	NA	<MDL	<MDL
Waste Oil Storage Tank Liquid	10/3/14	ND	7.29	ND	ND	<20	<50	<5	<50	NA	<50	<0.2	<50	<5	NA	<MDL	<MDL
Waste Oil Storage Tank Sludge	10/3/14	ND	7.4	ND	ND	<20	50	<5	<50	NA	<50	<0.2	<50	<5	NA	<MDL	<MDL
Pump Station Liquid	10/2/15	ND	8.36	ND	ND	<20	90	<5	<50	NA	<50	<0.2	<50	<5	NA	<MDL	<MDL
MH-1	10/12/15	ND	7.93	ND	ND	ND	0.28	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND
MH-3	10/12/15	ND	8.11	ND	ND	ND	0.19	ND	ND	NA	0.8	ND	ND	ND	NA	ND	ND
PSS-1	10/22/15	ND	8.21	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND
RCRA Toxicity Characteristic Regulatory Concentration		NA	NA	NA	NA	5000	100000	1000	5000	NA	5000	200	1000	5	NA	Various	Various
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**																	
Residential/Nonresidential (µg/L)																	
Residential Drinking Water (Res DW)		NA	NA	NA	NA	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	34	2,400	Various	Various
Residential Health Based Drinking Water Values		NA	NA	NA	NA	NL	NL	NL	NL	1,400 {E}	NL	NL	NL	NL	NL	Various	Various
Nonresidential Drinking Water (Nonres DW)		NA	NA	NA	NA	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	98	5,000 {E}	Various	Various
Nonresidential Health Based Drinking Water Values		NA	NA	NA	NA	NL	NL	NL	NL	4,000 {E}	NL	NL	NL	NL	NL	Various	Various
Groundwater Surface Water Interface (GSI)		NA	NA	NA	NA	10	{G}	{G,X}	11	{G}	{G,X}	0.0013	5.0	0.2 {M}; 0.06	{G}	Various	Various
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) [2]		NA	NA	NA	NA	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV	Various	Various
Nonresidential Groundwater Volatilizationto Indoor Air Inhalation (Nonres GVII) [2]		NA	NA	NA	NA	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV	Various	Various
Screening Levels (µg/L)																	
Residential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}res}$) [3]		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	Various	Various
Nonresidential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}nr}$)[3]		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	Various	Various
Residential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI\text{-}sump\text{-}res}$)[4]		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	Various	Various
Nonresidential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI\text{-}sump\text{-}nr}$)[4]		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	Various	Various
Water Solubility		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	Various	Various
Flammability and Explosivity Screening Level		NA	NA	NA	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	Various	Various

Criteria Exceeded

BOLD Value Exceeds Criteria

bgs Below Grade Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 2
PM PROJECT # 01-4173-6

Total Polychlorinated Biphenyls (PCBs) (µg/Kg)			Total Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Area 8			
Plant-2-001-(A)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(C)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(D)	12/04/2014	Destructive Concrete	500
Plant-2-001-(E)	12/04/2014	Destructive Concrete	700
Plant-2-001-(F)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(G)	12/04/2014	Destructive Concrete	240
Plant-2-001-(H)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(I) - EXCAVATED	12/04/2014	Destructive Concrete	**1,700**
Plant-2-001 (J)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (K)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (L)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (M)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (N)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (O)	03/30/2015	Destructive Concrete	<330
Area 5-1			
Plant-2-CC15-(A)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(C)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(D)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(E)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(F)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(G)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(H)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(I)	12/04/2014	Destructive Concrete	<330
Area 4			
Plant-2-CC72-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(C)	12/05/2014	Destructive Concrete	<330
Plant-2-CC72-(E)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(F)	12/05/2014	Destructive Concrete	<330
Plant-2-CC72-(G)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(H)	12/05/2014	Destructive Concrete	<330
Area 3-1 (Clarifier)			
Clarifier (A)	11/6/2015	Destructive Concrete	<330
Clarifier (B)	11/6/2015	Destructive Concrete	<330
Clarifier (C)	11/6/2015	Destructive Concrete	<330
Clarifier (D)	11/6/2015	Destructive Concrete	<330
Clarifier (E) - CAPPED	11/6/2015	Destructive Concrete	**2,100**
Clarifier (E-0) - CAPPED	11/20/2016	Destructive Concrete	**1,200**
Clarifier (E-1) - CAPPED	11/20/2016	Destructive Concrete	900
Clarifier (E-2) - CAPPED	11/20/2016	Destructive Concrete	400
Clarifier (E-3) - CAPPED	11/20/2016	Destructive Concrete	<330
Clarifier (E-4) - CAPPED	11/20/2016	Destructive Concrete	**1,200**
Clarifier (F)	11/6/2015	Destructive Concrete	330
Clarifier (G)	11/6/2015	Destructive Concrete	<330
Clarifier (H)	11/6/2015	Destructive Concrete	<330
Clarifier (I)	11/6/2015	Destructive Concrete	<330
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}res}$)			1,900
Nonresidential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}nr}$)			39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	1,000 µg/Kg (uncapped)	4,000 µg/Kg
Nonresidential	10,000 µg/Kg (capped)	16,000 µg/Kg

Criterion Exceeded
BOLD Value Exceeds Criterion
bgs Below Ground Surface (feet)
NA Not Applicable
NLL Not Likely to Leach

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 3
PM PROJECT # 01-4173-6

Total Polychlorinated Biphenyls (PCBs)			Total Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Area 11			
Plant-3-F3A-(A)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(B)	12/05/2014	Destructive Concrete	**1,200**
Plant-3-F3A-(C)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(D)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(E)	12/05/2014	Destructive Concrete	250
Plant-3-F3A-(F)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(G)	12/05/2014	Destructive Concrete	**1,500**
Plant-3-F3A-(H)	12/05/2014	Destructive Concrete	220
Plant-3-F3A-(I)	12/05/2014	Destructive Concrete	400
Plant-3-F3A (J)	03/30/2015	Destructive Concrete	400
Plant-3-F3A (K)	03/30/2015	Destructive Concrete	<330
Plant-3-F3A (L)	03/30/2015	Destructive Concrete	**1,800**
Plant-3-F3A (M)	03/30/2015	Destructive Concrete	**3,800**
Plant-3-F3A (N)	03/30/2015	Destructive Concrete	<330
Plant-3-F3A (O)	03/30/2015	Destructive Concrete	1,000
Plant-3-F3A (P)	03/30/2015	Destructive Concrete	1,000
Plant-3-F3A (Q)	6/20/2016	Destructive Concrete	<330
Plant-3-F3A (R)	6/20/2016	Destructive Concrete	<330
Plant-3-F3A (S)	6/20/2016	Destructive Concrete	<330
Plant-3-F3A (T)	6/20/2016	Destructive Concrete	<330
Area 14			
Plant-3-F3B-(A)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(B)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(C)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(D)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(E)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(F)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(G)	12/05/2014	Destructive Concrete	500
Plant-3-F3B-(H)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(I)	12/05/2014	Destructive Concrete	<330

Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50)
Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013
MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013

Residential (µg/Kg)	
Statewide Default Background Levels	NA
Drinking Water Protection (Res DWP)	NLL
Groundwater Surface Water Interface Protection (GSIP)	NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)	3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)	2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness	7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness	7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)	5.2E+06
Direct Contact (Res DC)	{T}
Nonresidential (µg/Kg)	
Drinking Water Protection (Nonres DWP)	NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)	1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)	8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness	2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness	2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)	6.5E+06
Direct Contact (Nonres DC)	{T}
Screening Levels (µg/Kg)	
Soil Saturation Concentration Screening Levels (Csat)	NA
Residential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}res}$)	1,900
Nonresidential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}nr}$)	39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	**1,000 µg/Kg (capped)**	4,000 µg/Kg
Nonresidential	10,000 µg/Kg (uncapped)	16,000 µg/Kg

Criterion Exceeded
BOLD Value Exceeds Criterion
bgs Below Ground Surface (feet)
NA Not Applicable
NLL Not Likely to Leach

TABLE 6
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 3 CLARIFIER
PM PROJECT # 01-4173-6

Total Polychlorinated Biphenyls (PCBs) **(µg/Kg)**			Total Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Area 3-1 (Clarifier)			
Clarifier (A)	11/6/2015	Destructive Concrete	<330
Clarifier (B)	11/6/2015	Destructive Concrete	<330
Clarifier (C)	11/6/2015	Destructive Concrete	<330
Clarifier (D)	11/6/2015	Destructive Concrete	<330
Clarifier (E)	11/6/2015	Destructive Concrete	**2,100**
Clarifier (E-0)	11/20/2015	Destructive Concrete	**1,200**
Clarifier (E-1)	11/20/2015	Destructive Concrete	900
Clarifier (E-2)	11/20/2015	Destructive Concrete	400
Clarifier (E-3)	11/20/2015	Destructive Concrete	<330
Clarifier (E-4)	11/20/2015	Destructive Concrete	**1,200**
Clarifier (F)	11/6/2015	Destructive Concrete	330
Clarifier (G)	11/6/2015	Destructive Concrete	<330
Clarifier (H)	11/6/2015	Destructive Concrete	<330
Clarifier (I)	11/6/2015	Destructive Concrete	<330
Vault (J)	12/10/2015	Destructive Concrete	<330
Vault (K)	12/10/2015	Destructive Concrete	<330
Vault (L)	12/10/2015	Destructive Concrete	<330
Vault (M)	12/10/2015	Destructive Concrete	<330
Vault (N)	12/10/2015	Destructive Concrete	<330
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels (S_{VI-res})			1,900
Nonresidential Vapor Intrusion Soil Screening Levels (S_{VI-nr})			39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	1,000 µg/Kg (uncapped)	4,000 µg/Kg
Nonresidential	10,000 µg/Kg (capped)	16,000 µg/Kg

	Criterion Exceeded
BOLD	Value Exceeds Criterion
bgs	Below Ground Surface (feet)
NA	Not Applicable
NLL	Not Likely to Leach

TABLE 7
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 2 (Area 8)
PM PROJECT # 01-4173-7

Polychlorinated Biphenyls (PCBs) (ug/Kg)			Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
S-1 (Area 8)	03/17/2016	0.0-0.5'	<330
S-1 (Area-8)	06/20/2016	1.0-2.0	<330
S-2 (Area-8)	06/20/2016	1.0-2.0	<330
S-3 (Area-8)	06/20/2016	1.0-2.0	<330
S-4 (Area-8)	06/20/2016	1.0-2.0	<330
S-5 (Area-8)	06/20/2016	1.0-2.0	<330
S-6 (Area-8)	06/20/2016	1.0-2.0	<330
A-1 (Area-8)			<330
S-7 (Area-8)	06/20/2016	1.0-2.0	<330
S-8 (Area-8)	06/20/2016	1.0-2.0	<330
S-9 (Area-8)	06/20/2016	1.0-2.0	<330
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013 MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}res}$)			1,900
Nonresidential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}nr}$)			39,000

{G} Metal GSIP Criteria for Surface Water ***?Not?*** Protected for Drinking Water Use based on ??? mg/L CaCO3 Hardness: Station ID ***??????*** , Lake ***????*** , near ***??????*** , MI.

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential	1,000 µg/Kg, or	4,000 µg/Kg
Nonresidential	10,000 µg/Kg if capped	16,000 µg/Kg

	Applicable Criterion/RBSL Exceeded
BOLD	Value Exceeds Applicable Criterion/RBSL
bgs	Below Ground Surface (feet)
1	1,2,3-Trimethylbenzene RBSLs based on the more restrictive of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
2	Maximum of analyzed or calculated total lead value.
ND	Non-detected at levels above laboratory method detection limit (MDL)
NA	Not Applicable
NL	Not Listed
NLL	Not Likely to Leach
NLV	Not Likely to Volatilize
ID	Insufficient Data

TABLE 8
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN SOIL
RACER LANSING PLANT 3 (Area 11)
PM PROJECT # 01-4173-7

Polychlorinated Biphenyls (PCBs) (ug/Kg)			Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
S-1 (Area 11)	03/17/2016	0.0-0.5'	<330
S-2 (Area 11)	03/17/2016	0.0-0.5'	<330
S-1 (Area-11)	06/20/2016	1.0-2.0'	<330
S-2 (Area-11)	06/20/2016	1.0-2.0'	<330
S-3 (Area-11)	06/20/2016	1.0-2.0'	<330
A-1 (Area-11)			<330
S-4 (Area-11)	06/20/2016	1.0-2.0'	<330
S-5 (Area-11)	06/20/2016	1.0-2.0'	<330
S-6 (Area-11)	06/20/2016	1.0-2.0'	<330
S-7 (Area-11)	06/20/2016	1.0-2.0'	<330
S-8 (Area-11)	06/20/2016	1.0-2.0'	<330
S-9 (Area-11)	06/20/2016	1.0-2.0'	<330
S-10 (Area-11)	06/20/2016	1.0-2.0'	<330
S-11 (Area-11)	06/20/2016	1.0-2.0'	<330
S-12 (Area-11)	06/20/2016	2.0-3.0'	<330
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels (S_{VI-res})			1,900
Nonresidential Vapor Intrusion Soil Screening Levels (S_{VI-nr})			39,000

{G} Metal GSIP Criteria for Surface Water ***?Not?*** Protected for Drinking Water Use based on ??? mg/L CaCO3 Hardness: Station ID ***??????***, Lake ***????***, near ***??????***, MI.

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential	1,000 µg/Kg, or	4,000 µg/Kg
Nonresidential	10,000 µg/Kg if capped	16,000 µg/Kg

	Applicable Criterion/RBSL Exceeded
BOLD	Value Exceeds Applicable Criterion/RBSL
bgs	Below Ground Surface (feet)
1	1,2,3-Trimethylbenzene RBSLs based on the more restrictive of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenz
2	Maximum of analyzed or calculated total lead value.
ND	Non-detected at levels above laboratory method detection limit (MDL)
NA	Not Applicable
NL	Not Listed
NLL	Not Likely to Leach
NLV	Not Likely to Volatilize
ID	Insufficient Data

Figures

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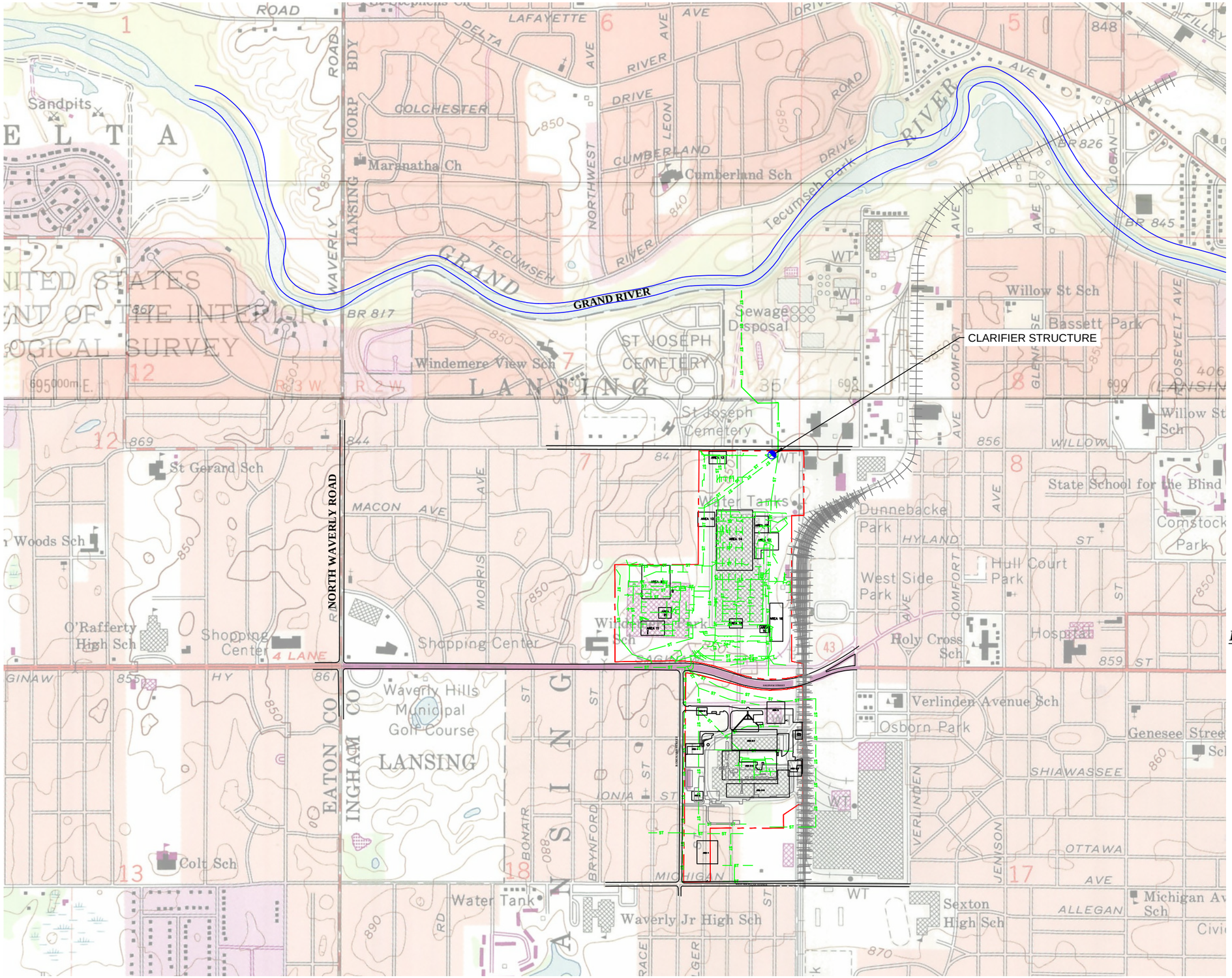

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FIGURE 1
SITE VICINITY DIAGRAM

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
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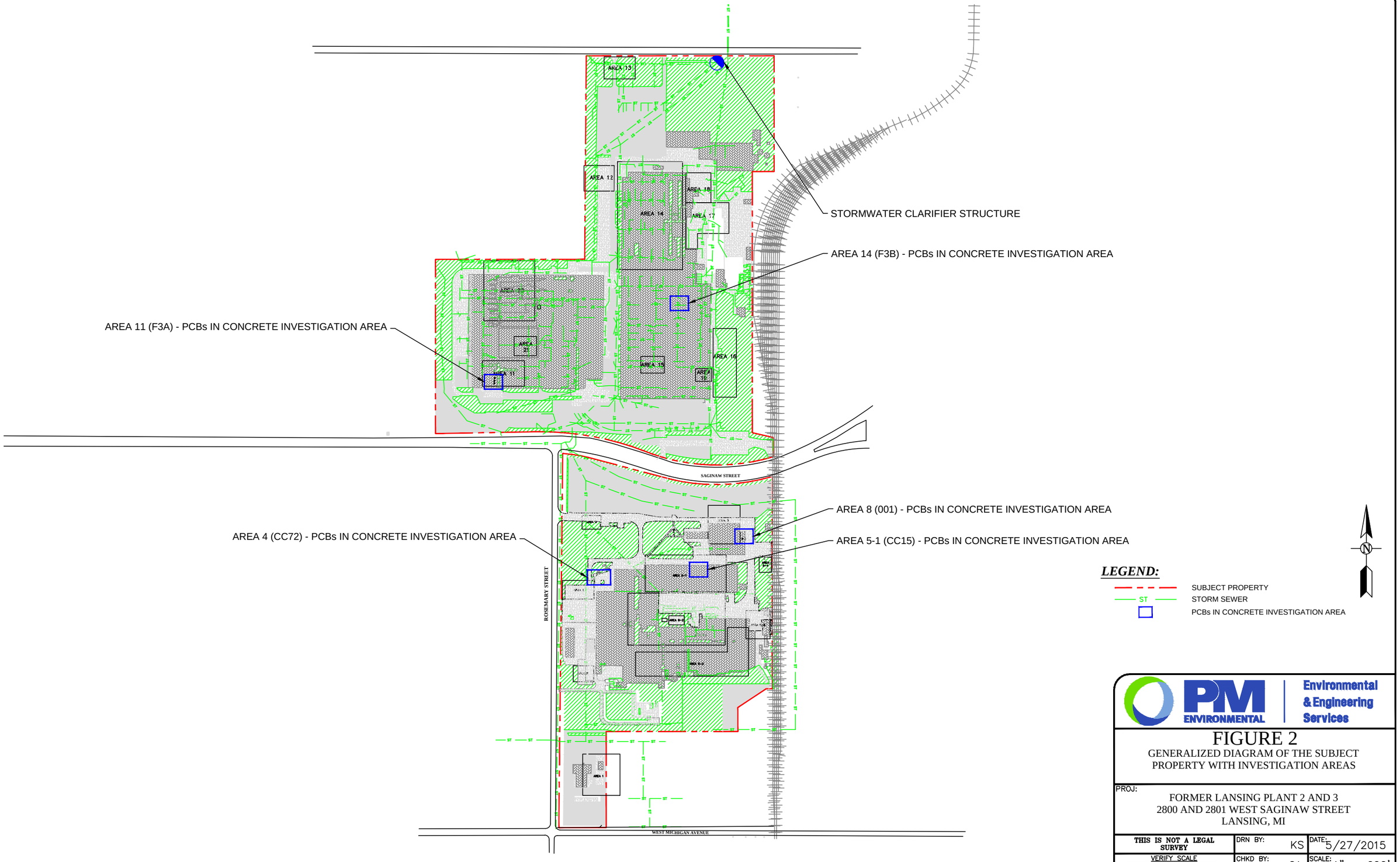

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FIGURE 2

GENERALIZED DIAGRAM OF THE SUBJECT PROPERTY WITH INVESTIGATION AREAS

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 600' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 600'
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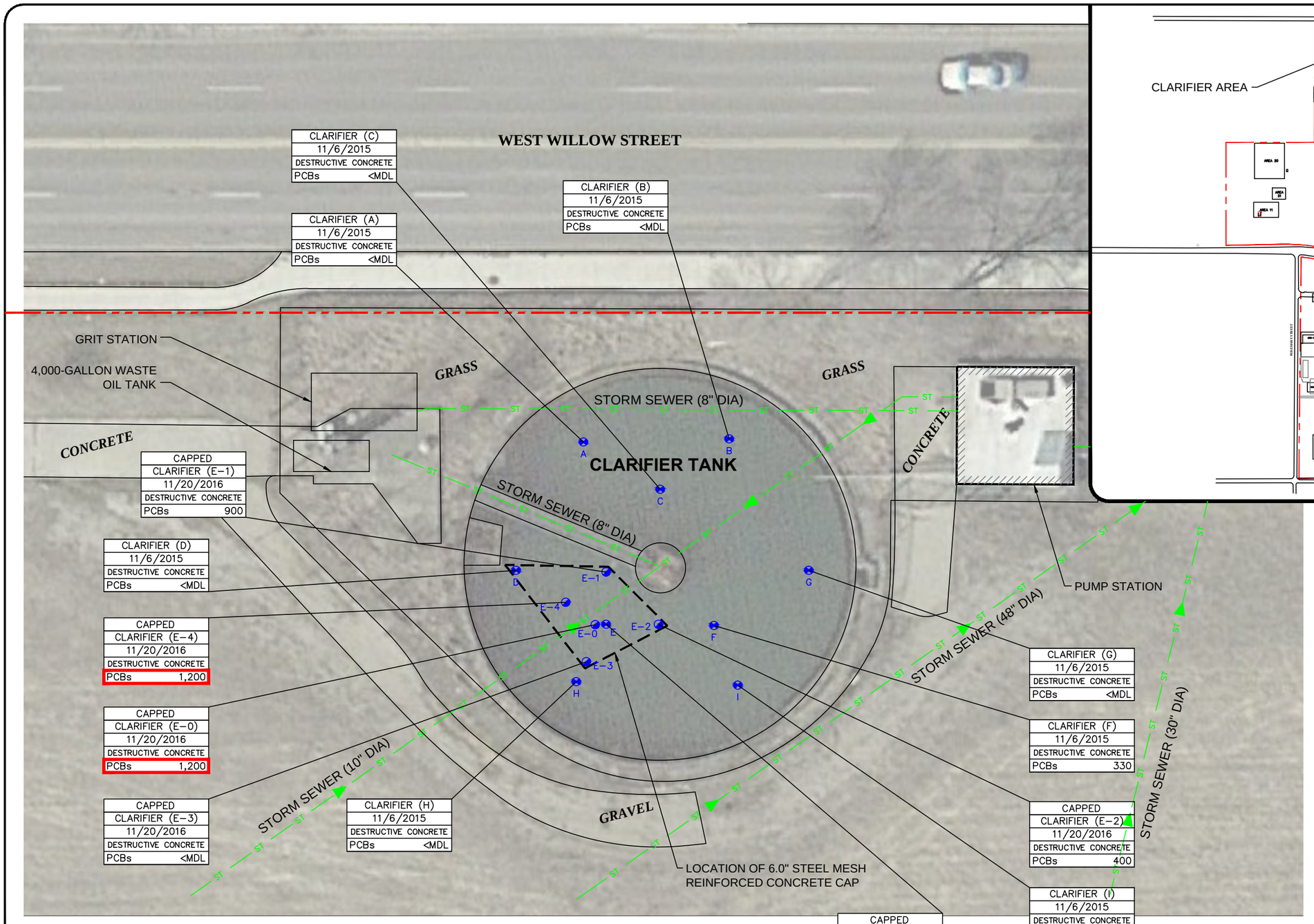

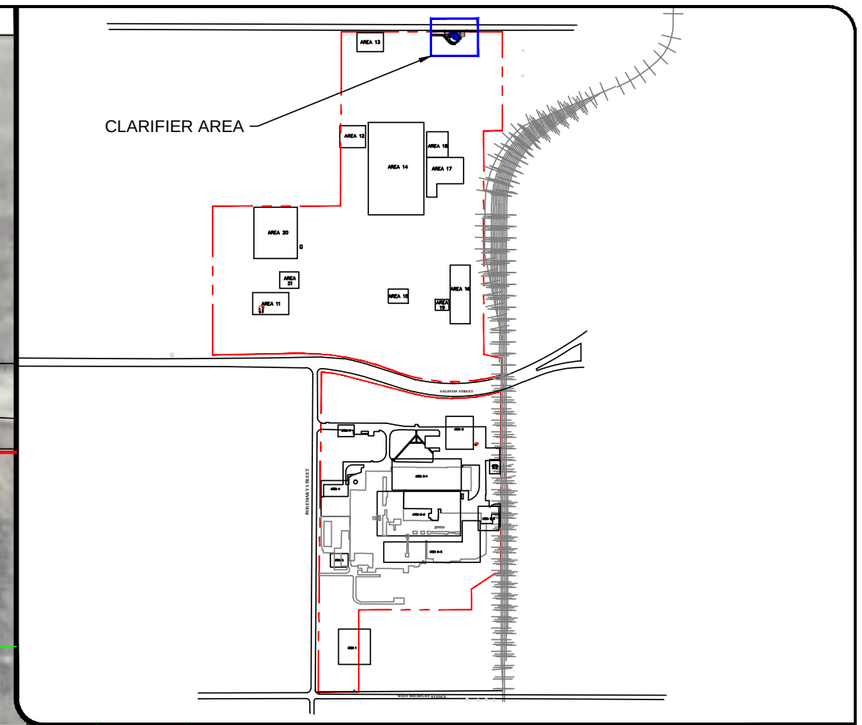

LEGEND:

	SUBJECT PROPERTY
X	FENCE
ST	STORM SEWER
	CONCRETE SAMPLE
	CONCRETE VERIFICATION SAMPLE
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITs	µg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

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FIGURE 3

STORM WATER CLARIFIER SITE INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS/CS	DATE: 12/19/2016
VERIFY SCALE 0 — 20' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 20'
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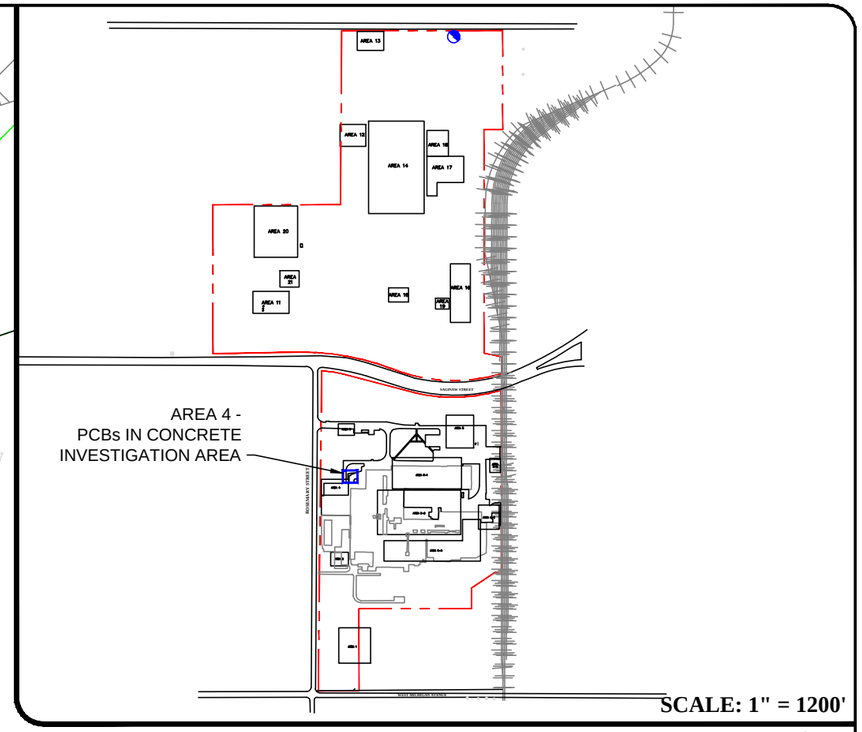

SCALE: 1" = 1200'

PLANT 2-CC72-(B)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC72-(C)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC72-(E)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC72-(F)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC72-(G)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC72-(H)
12/5/2014
CONCRETE CORE
PCBs <330

B C E F G H

CC72

AREA 4

LEGEND:

- SUBJECT PROPERTY
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- PCBs UNITs: µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- GRASS COVER
- CONCRETE PAVEMENT

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FIGURE 4

AREA 4
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 ■ 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01-4173-6F00R02	

AREA 5-1

PLANT 2-CC15-(A)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(B)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(C)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(D)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(E)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(F)
3/30/2015
CONCRETE CORE
PCBs <330

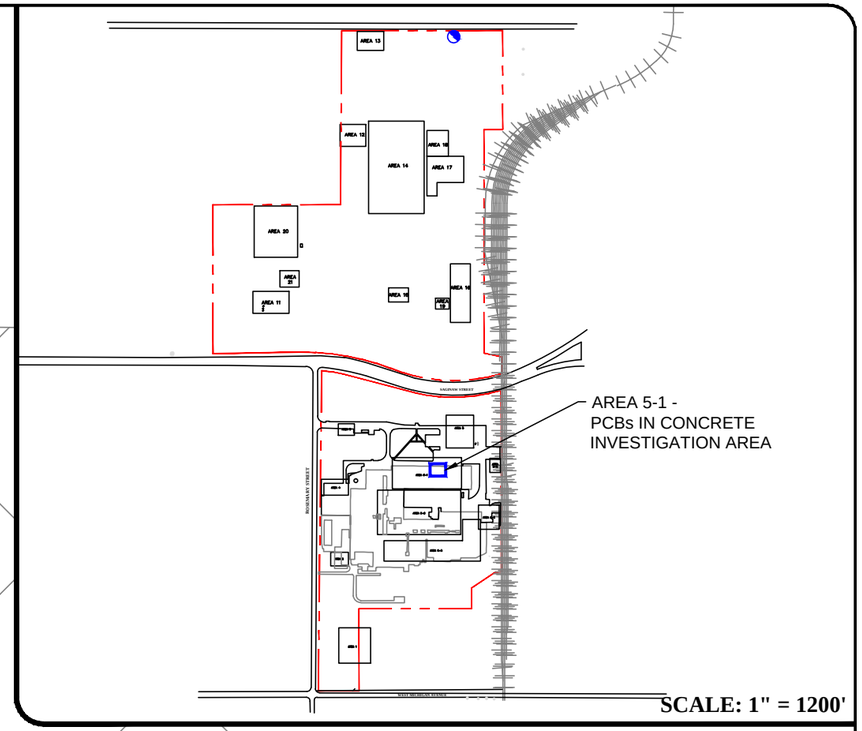
PLANT 2-CC15-(G)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(H)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(I)
3/30/2015
CONCRETE CORE
PCBs <330

A B C D E F G H I

CC15



SCALE: 1" = 1200'

N

LEGEND:

- SUBJECT PROPERTY
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 5

AREA 5-1
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
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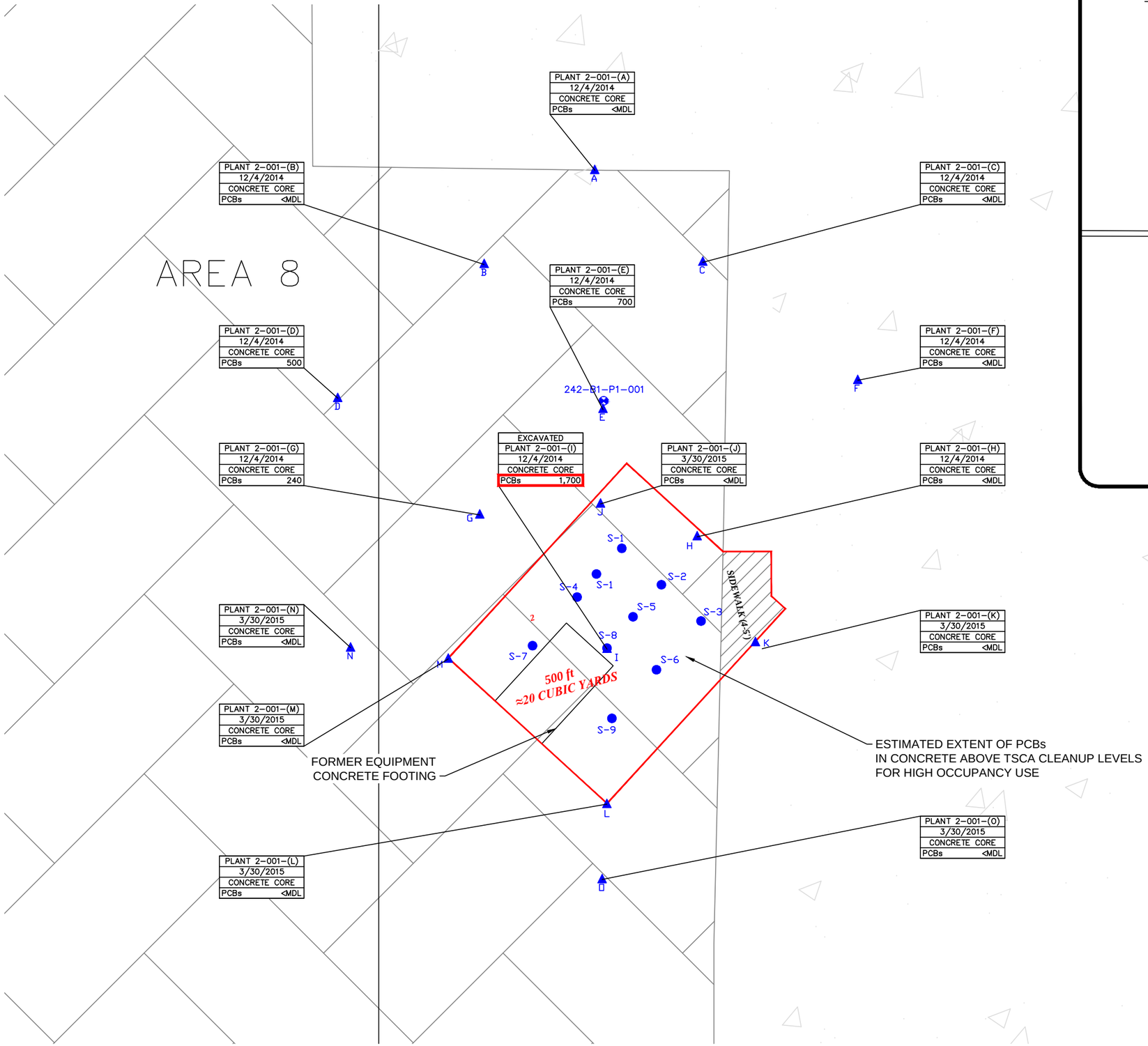

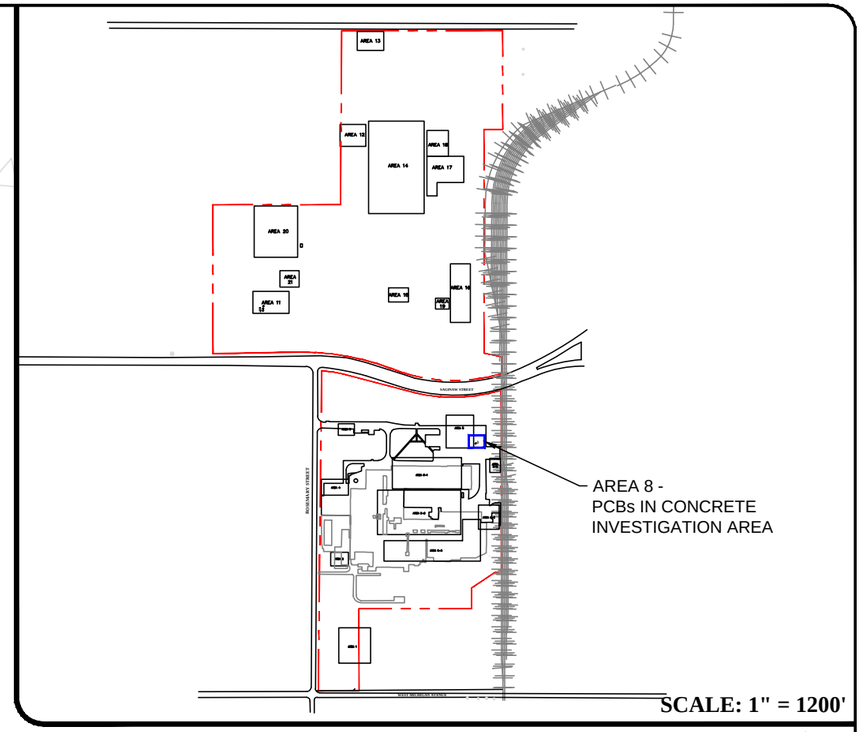

LEGEND:

- SUBJECT PROPERTY
- CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 6

AREA 8

PCBs IN CONCRETE INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 12/19/2016
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01-4173-6F00R02	

AREA 11

PLANT 3–F3A–(Q)
6/20/2016
0.0 – 1.0'
PCBs <MDL

PLANT 3–F3A–(J)
3/30/2015
CONCRETE CORE
PCBs 400

EXCAVATED
PLANT 3–F3A–(B)
12/5/2014
CONCRETE CORE
PCBs 1,200

PLANT 3–F3A–(A)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3–F3A–(R)
6/20/2016
0.0 – 1.0'
PCBs <MDL

FORMER EQUIPMENT CONCRETE FOOTING

EXCAVATED
PLANT 3–F3A–(L)
3/30/2015
CONCRETE CORE
PCBs 1,800

PLANT 3–F3A–(K)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 3–F3A–(C)
12/5/2014
CONCRETE CORE
PCBs <330

EXCAVATED
PLANT 3–F3A–(M)
3/30/2015
CONCRETE CORE
PCBs 3,800

PLANT 3–F3A–(F)
12/5/2014
CONCRETE CORE
PCBs <330

BUILDING FOUNDATION (NOT REMOVED)

1750 ft² ≈65 CUBIC YARDS

PLANT 3–F3A–(D)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3–F3A–(E)
12/5/2014
CONCRETE CORE
PCBs 250

FORMER EQUIPMENT CONCRETE FOOTING

PLANT 3–F3A–(N)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 3–F3A–(H)
12/5/2014
CONCRETE CORE
PCBs 220

ESTIMATED EXTENT OF PCBS IN CONCRETE ABOVE TSCA CLEANUP LEVELS FOR HIGH OCCUPANCY USE

EXCAVATED
PLANT 3–F3A–(G)
12/5/2014
CONCRETE CORE
PCBs 1,500

PLANT 3–F3A–(O)
3/30/2015
CONCRETE CORE
PCBs 1,000

FORMER EQUIPMENT CONCRETE FOOTING

BUILDING FOUNDATION (NOT REMOVED)

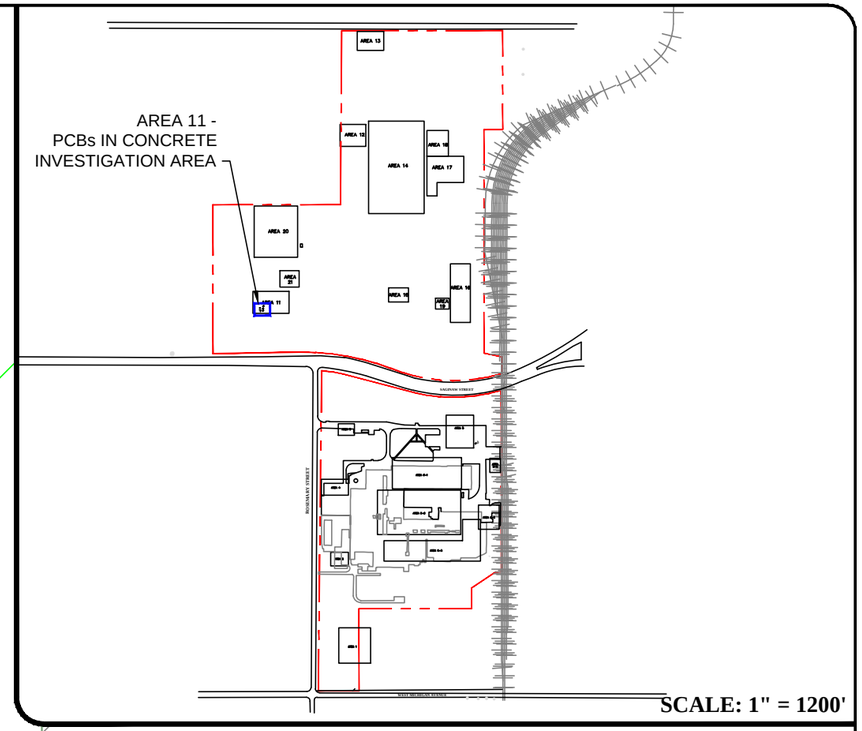
PLANT 3–F3A–(S)
6/20/2016
0.0 – 1.0'
PCBs <MDL

PLANT 3–F3A–(P)
3/30/2015
CONCRETE CORE
PCBs 1,000

PLANT 3–F3A–(I)
12/5/2014
CONCRETE CORE
PCBs 400

PLANT 3–F3A–(T)
6/20/2016
0.0 – 1.0'
PCBs <MDL

AREA 11 - PCBs IN CONCRETE INVESTIGATION AREA



SCALE: 1" = 1200'

N

LEGEND:

- SUBJECT PROPERTY
- CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- PCBs UNITs — POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- GRASS COVER
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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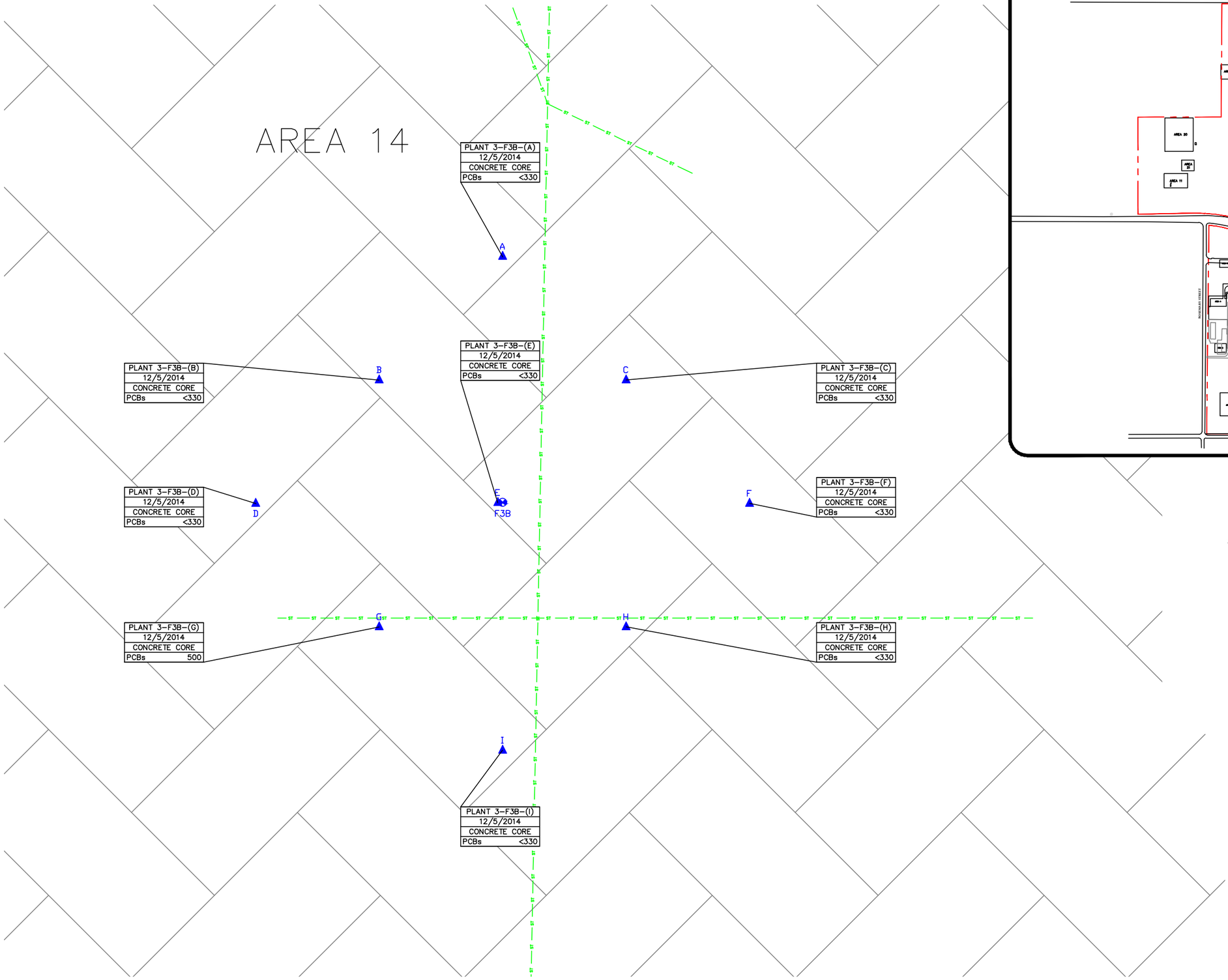
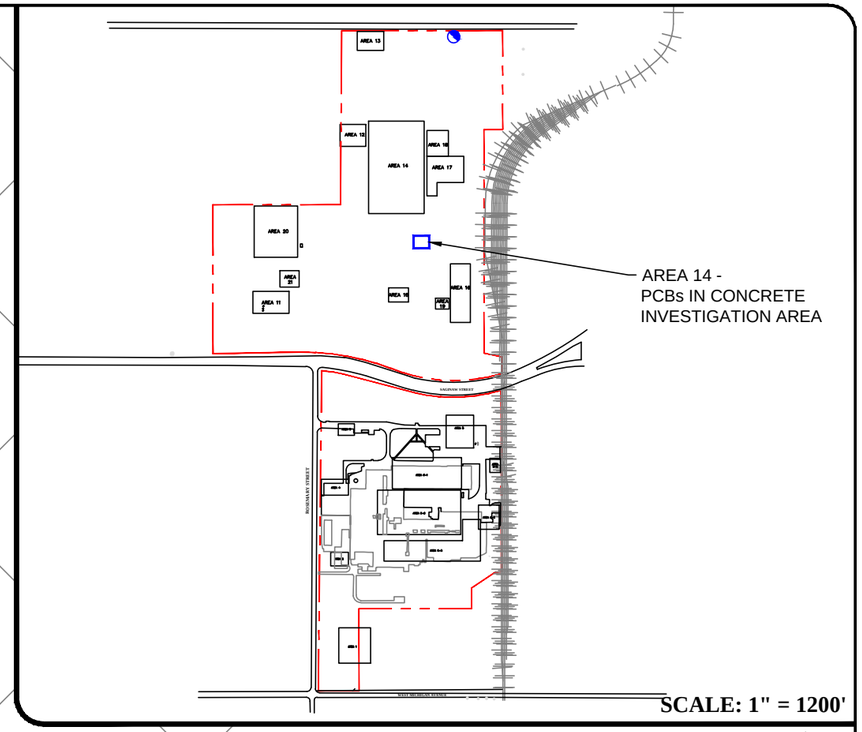
FIGURE 7

AREA 11
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 12/19/2016
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01–4173–6F00R02	





LEGEND:

- SUBJECT PROPERTY
- ST — STORM SEWER
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- ∅ PROPOSED CONCRETE SAMPLE LOCATION
- PCBs UNITs: µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 8

AREA 14

PCBs IN CONCRETE INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 8/14/2012
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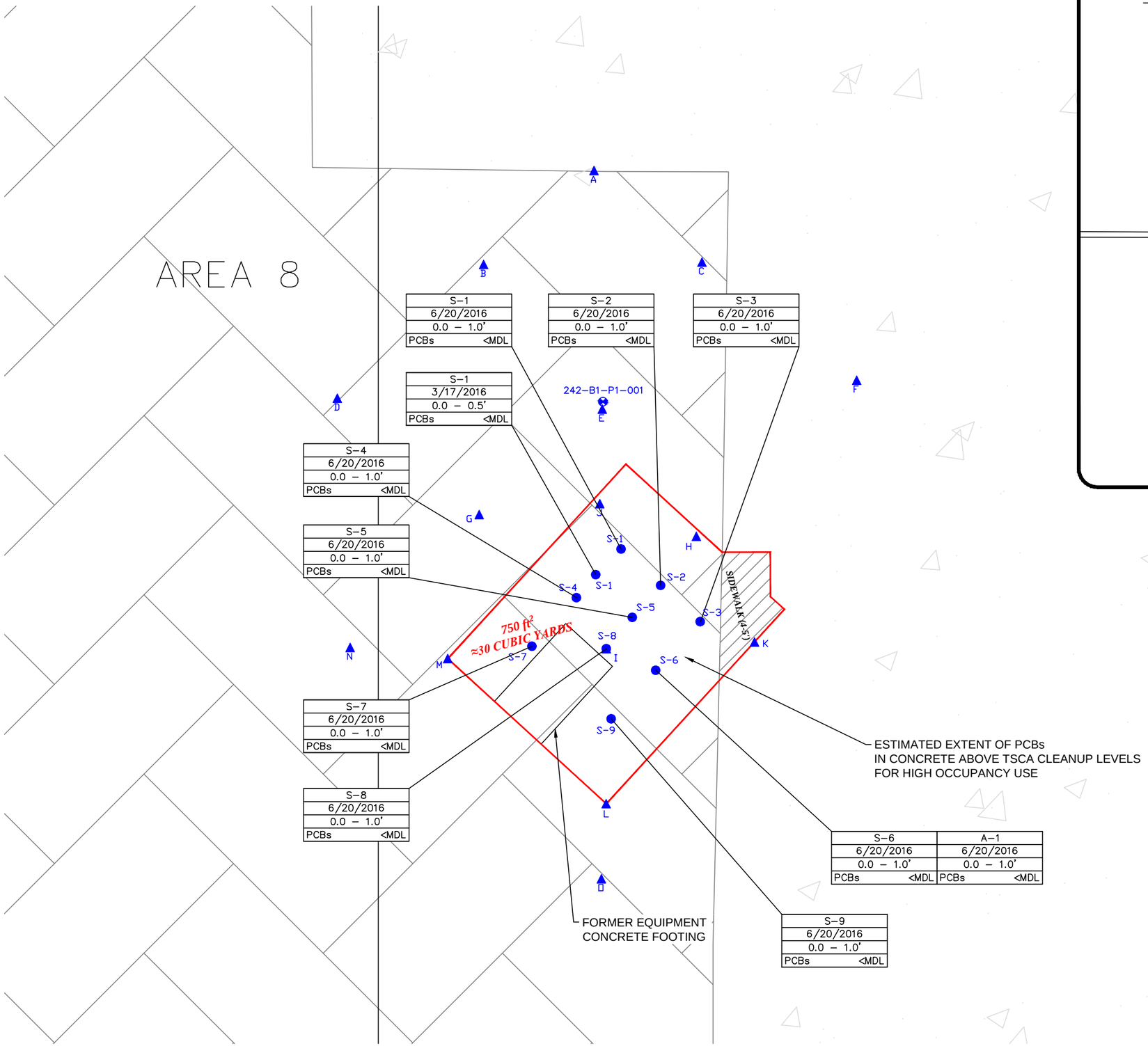
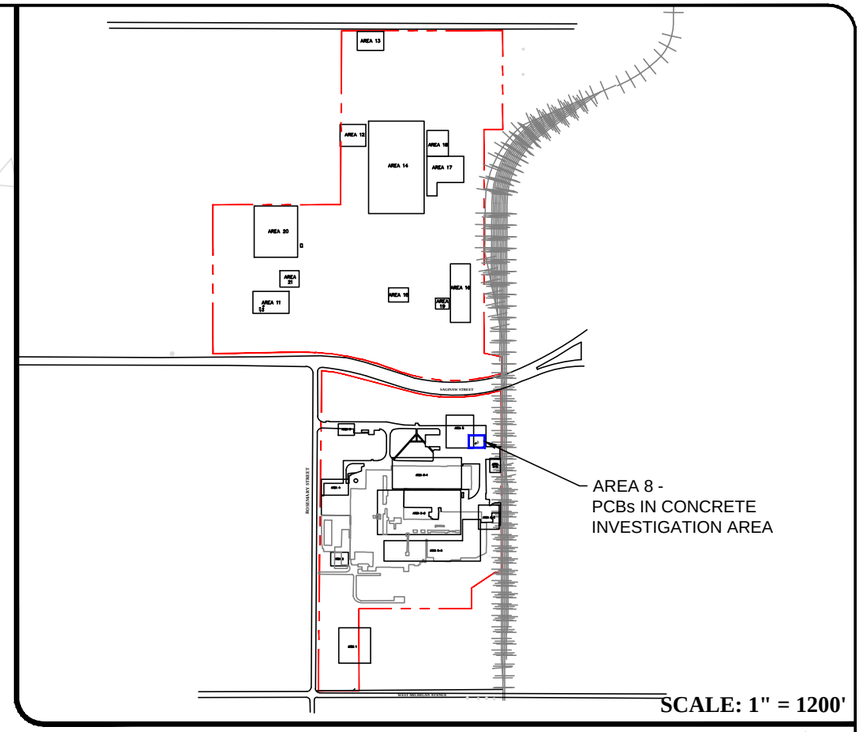
	FILE NAME: 01-4173-6F00R02	





SCALE: 1" = 1200'

N

LEGEND:

- SUBJECT PROPERTY
- CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 9

AREA 8
PCBs IN SOIL INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 12/19/2016
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	FILE NAME: 01-4173-6F00R02	

AREA 11

S–1	S–2	S–3	A–1
6/20/2016	6/20/2016	6/20/2016	6/20/2016
0.0 – 1.0'	0.0 – 1.0'	0.0 – 1.0'	0.0 – 1.0'
PCBs <MDL	PCBs <MDL	PCBs <MDL	PCBs <MDL

S–2
3/17/2016
0.0 – 0.5'
PCBs <MDL

S–4
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–5
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–6
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–7
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–8
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–9
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–10
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–11
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–12
6/20/2016
0.0 – 1.0'
PCBs <MDL

S–1
3/17/2016
0.0 – 0.5'
PCBs <MDL

Q J R A K B L C F M D F3A E N G O I S P T H

S-1 S-2 S-3 S-4 S-5 S-2 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-1

FORMER EQUIPMENT CONCRETE FOOTING

FORMER EQUIPMENT CONCRETE FOOTING

FORMER EQUIPMENT CONCRETE FOOTING

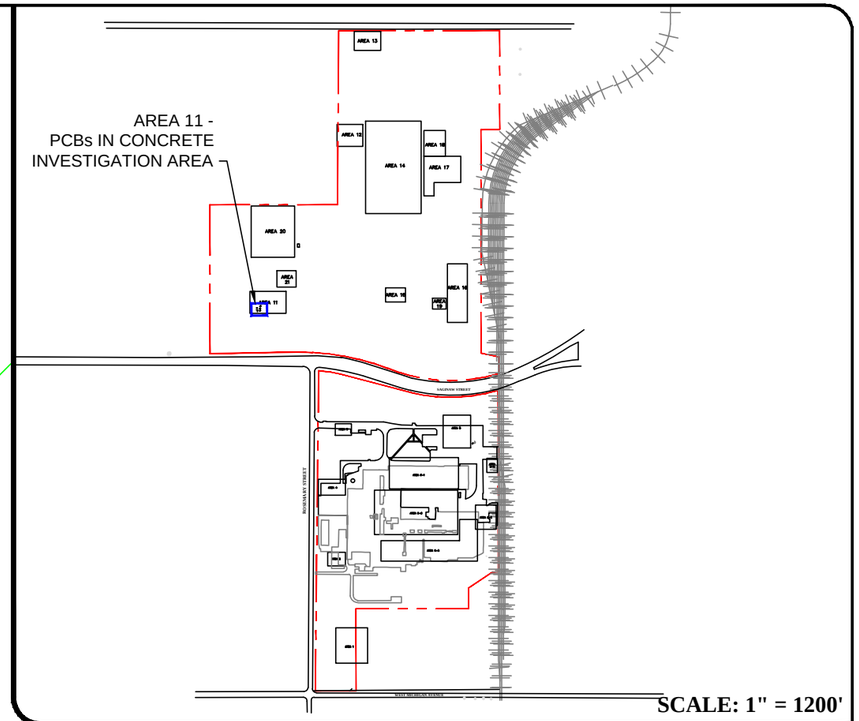
BUILDING FOUNDATION (NOT REMOVED)

BUILDING FOUNDATION (NOT REMOVED)

1500 ft² ≈55 CUBIC YARDS

ESTIMATED EXTENT OF PCBS IN CONCRETE ABOVE TSCA CLEANUP LEVELS FOR HIGH OCCUPANCY USE

AREA 11 - PCBs IN CONCRETE INVESTIGATION AREA



SCALE: 1" = 1200'

N

LEGEND:

- SUBJECT PROPERTY
- CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- GRASS COVER
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 10

AREA 11

PCBs IN SOIL INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

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	FILE NAME: 01–4173–6F00R02	

Appendix A

PM ENVIRONMENTAL Environmental & Engineering Services

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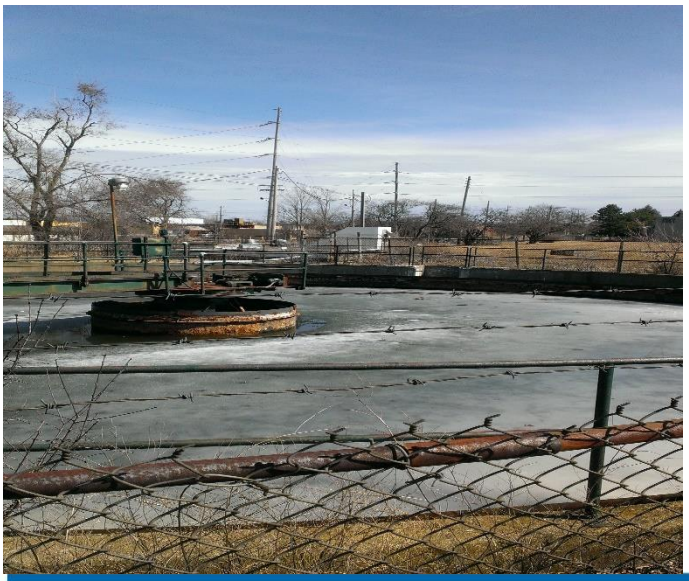
Risk Well Managed

Environmental & Engineering Services Nationwide



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SELF IMPLEMENTING WORK PLAN for POLYCHLORINATED BIPHENYLS

RACER Industrial Property Lansing Plants 2 and 3
Lansing, Michigan
PM Project Number 01-4173-6

Prepared for:

RACER Trust
500 Woodward Avenue
Suite 1510
Detroit, Michigan 48226

Prepared by:

PM Environmental, Inc.
3340 Ranger Road
Lansing, Michigan 48906

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Grand Rapids, MI 49504
f: 877.884.6775
t: 616.285.8857

Date: August 2015

Ms. Jean M. Greensley
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Self-Implementing Work Plan for Polychlorinated Biphenyls
For RACER Industrial Property Lansing Plants 2 and 3 Located 2800 and 2801 West Saginaw Street, Lansing, Michigan
Parcel Identification Nos. 33-21-01-18-227-001, 33-21-01-07-426-001 & 33-21-01-18-226-001
USEPA Facility ID No. MID-980-700-827
PM Environmental, Inc. Project 00-4173-6

Dear Ms. Greensley:

Enclosed is a copy of the above-referenced document. This Self-Implementing Work Plan for Polychlorinated Biphenyls (PCBs) is specific to address the PCB impact in concrete and sludge regulated under the federal Toxic Substance Control Act (TSCA) and is being submitted to the United States Environmental Protection Agency (USEPA) as notification of a planned PCB cleanup in accordance with 40 CFR 761(a)(3).

If you have any questions regarding the information in this report, please contact us at 800-313-2966.

Sincerely,
PM ENVIRONMENTAL, INC.

Casey Armstrong
Regional Manager-Field Services/Project Manager

J. Adam Patton, CHMM
Manager of Site Investigation Services

Cc: Dave Favero, Deputy Cleanup Manager-Michigan, RACER Trust; Peter Ramanauskas, USEPA

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Table 1: Summary of Soil Analytical Results – PCBs
Table 2: Summary of Groundwater Analytical Results – PCBs, SVOCs, VOCs, and Metals
Table 3: Summary of Waste Characterization Data – Flashpoint, pH, Reactive Cyanide, Reactive Sulfide, TCLP Metals/VOCs/VOCs
Table 4: Summary of Analytical Results – PCBs in Concrete RACER Lansing Plant 2
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APPENDICES

Appendix A: Previous Site Investigation Reports
Appendix B: Laboratory Analytical Reports

1.0 INTRODUCTION

This Self-Implementing Work Plan for Polychlorinated Biphenyls (PCB Work Plan) was prepared on behalf of The Revitalizing Auto Communities Environmental Response Trust (RACER), 500 Woodward Avenue, Suite 1510, Detroit, Michigan 48226 for the vacant industrial property located at 2800 and 2801 West Saginaw Street, Lansing, Ingham County, Michigan (hereafter referred to as the "Site"), in accordance with Title 40 Code of Federal Regulations, Chapter I, Subchapter R-Toxic Substance Control Act, Subpart 761 (40 CFR 761). Concentrations of PCBs were detected in sludge within a former waste oil storage vault for the storm water clarifier structure at levels above the federal Toxic Substance Control Act (TSCA) cleanup levels during a sample event conducted by ARCADIS U.S. (ARCADIS) in October 2014. Concentrations of PCBs were detected in concrete at levels above the federal TSCA cleanup levels during sample events conducted by PM in December 2014 and March 2015. The date of the release(s) and the concentration of the original spill(s) are unknown.

This PCB Work Plan addresses PCB impacted sludge within the former 4,000-gallon waste oil storage vault associated with the concrete clarifier structure on the northern portion of Plant 3, and PCB impacted concrete slabs on Plants 2 and 3. This PCB Work Plan presents a plan to properly dispose of material regulated under the federal TSCA and is being submitted to the United States Environmental Protection Agency (USEPA) as notification of a planned PCB cleanup in accordance with 40 CFR 761(a)(3).

1.1 Previous Reports

PM reviewed the following reports pertaining to previous environmental investigations during the preparation of this PCB Work Plan:

- 2005 – 2008 Concrete Sample Locations and Analytical Results (provided by RACER);
- Clarifier Waste Characterization Analytical Results, October 3, 2014, ARCADIS;
- Clarifier Removal and Site Restoration Project Manual, October 2014, ENG. Engineering and Surveying (ENG).

Copies of the previous reports are included in Appendix A.

1.2 Subject Property Description and Background

On June 1, 2009, General Motors Corporation (GMC) filed for Chapter 11 protection under U.S. Bankruptcy Code. On July 10, 2009, GMC was renamed Motors Liquidation Company (MLC) and on the same day some of the operating assets of GMC were sold to a newly formed company "General Motors Company". General Motors Company changed its name to General Motors LLC (GM LLC) on October 16, 2009. Assets not sold to GM LLC remained the property of the MLC, in its capacity as debtor-in-possession in the bankruptcy case. On March 31, 2011, the environmental remediation of the properties was transferred from MLC to the RACER Trust. Ownership of the properties was transferred to RACER Properties LLC, a wholly owned subsidiary of RACER Trust.

Plant 2 and 3 are part of a larger group of properties referred to as Lansing Plants 2, 3, and 6. Former Lansing Plants 2, 3, and 6 are located at 2801 West Saginaw Street, 2800 West Saginaw Street, and 401 North Verlinden Street, respectively, in Lansing, Ingham County,

Michigan. Plant 2 is approximately 63 acres of land, Plant 3 encompasses 104 acres of land, and Plant 6 encompasses approximately 72 acres. Plants 2 and 3 are located in Lansing Township and Plant 6 is located within the City of Lansing. The former Lansing Plants 2, 3, and 6 are located in the Township Four North (T. 4N), Range Two West (R. 2W), Sections 7, 17 and 18, Lansing, Ingham County, Michigan (Figure 1). The three plants were constructed in the early 1900s and operations were focused on aspects of automobile manufacturing. Decommissioning of the plants began in 2007 and was completed in 2013.

Currently, the Plants 2, 3, and 6 are unoccupied, all of the buildings have been demolished, and all are secured with perimeter fencing and locked gates. Concrete slabs and asphalt parking lots remain in place at Plants 2 and 3 and approximately 60 percent of these surfaces have been removed at Plant 6. Remaining surface cover consists of concrete building foundations, paved concrete drive areas, crushed concrete with a minimal thickness of six-inches, and areas of seeded topsoil (grass).

A former storm water, water treatment clarifier (clarifier) is present near the northern boundary of Plant 3 adjacent to Willow Highway Figure (2). The clarifier was used to eliminate solids from storm water prior to final discharge to the municipal storm water sewers for conveyance to the Grand River surface water body. The associated 4,000-gallon waste oil storage vault, collected and stored skimmed material transferred from the clarifier structure (Figure 3).

1.3 Clarifier Site Investigations

ENG prepared the Clarifier Removal and Site Restoration Project Manual for the clarifier structure and associated 4,000-gallon waste oil storage vault in October 2014 (Appendix A). Proper disposal of the contents of the clarifier and the storage vault are required prior to the decommissioning and removal of the structures. Approximately 400,000-gallons of liquid, including an estimated 1,500 to 9,000-gallons of sediment is currently present in the clarifier. Approximately 4,000-gallons of liquid, including an estimated 50 to 200-gallons of floating sludge is currently present in the storage vault.

ARCADIS (on behalf of RACER) sampled the liquid, sediment, and sludge within the clarifier and associated storage vault for preliminary waste characterization to determine proper disposal methods for the materials prior to completion of clarifier removal activities. One composite liquid waste characterization sample was collected from the clarifier for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, Michigan Ten Metals (i.e., arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), flashpoint, pH, reactive cyanide, and reactive sulfide. One composite liquid sample and one composite sludge sample was collected from the storage vault and one composite sediment sample was collected from the clarifier and submitted for laboratory analysis of PCBs, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, flashpoint, pH, reactive cyanide, and reactive sulfide. Analytical results of the waste characterization samples are presented in Tables 1 through 3, and summarized in Section 1.5. Laboratory reports are attached as Appendix B.

1.4 Concrete Site Investigation

PM reviewed concrete sample analytical results provided by RACER from samples collected at the Site between 2005 and 2008 (Appendix A). Concentrations of total PCBs (ranging between

3,500 and 5,000 µg/Kg) were previously identified above the TSCA 40 CFR §761(d)(4), Subpart-D, direct contact criterion for high occupancy use (1,000 ug/Kg) at five sample locations at the Site (Plant 2: Area 4, Area 5.1, and Area 8; Plant 3: Area 11 and Area 14) . The previous sample locations were labeled as LAN3-302-F3B, LAN3-304-F3A, 242-B1-P1-001, CC15, and CC72) and are depicted on Figures 4 through 8. At the request of RACER, PM developed a work plan to locate the previous sample locations and verify PCB impact with replicate samples. Additional samples were concurrently collected to delineate PCB impact (if identified) in existing concrete slabs at the Site.

In December 2014 and March 2015, PM (on behalf of RACER) collected 55 destructive concrete samples at five areas on the Site where PCB concentrations were reportedly previously detected at levels exceeding TSCA 40 CFR §761(d)(4), Subpart-D, direct contact criterion for high occupancy use (1,000 ug/Kg). Once the general area of the previous sample points were identified, PM surveyed a 50 foot by 50 foot area encompassing each of the previous five sample locations identified above, and utilized a 12.5-foot sample grid in each survey area for spatial coverage. Concrete samples collected by PM were collected in accordance with the USEPA Region 1 Standard Operation Procedure (SOP) for Sampling Concrete in the Field. The purpose of the initial investigation was to attempt to locate, replicate, and delineate (if applicable) the previous sample locations provided by RACER to determine if a current risk exists.

Figures 4 through 8 depict the general locations of the former concrete samples collected between 2005 and 2008, and the areas and locations of concrete samples collected by PM in December 2014 and March 2015 at the Site. Analytical results of the concrete samples are presented in Table 4 and Table 5 and summarized in Section 1.5. Laboratory reports are attached as Appendix B.

1.5 Analytical Results

The analytical results for the samples collected were compared with the MDEQ Generic Cleanup Criteria (GCC) and Screening Levels as presented in in the Cleanup Criteria for Response Activity, R 299.1 - R 299.50, dated December 2013, the Resource Conservation and Recovery Act (RCRA) Toxicity Characteristic Regulatory Concentrations and in accordance with Section 20120a(1) using the Residential and Nonresidential GCC, and USEPA TSCA criteria. The analytical results are summarized in Tables 1 through 5, including individual target analytes and associated chemical abstract service numbers. The laboratory analytical reports are included in Appendix B.

1.5.1 Clarifier Analytical Results

A concentration of total PCBs in the sediment sample (500 µg/kg) collected from sediments located at the base of the clarifier structure was less than the relevant federal TSCA 40 CFR §761(d)(4), Subpart-D, Direct Contact criterion for high occupancy use (1,000 ug/Kg). PCBs were detected in a sample collected from the sludge within the 4,000-gallon storage vault at a concentration (1,100 µg/Kg) greater than the TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) (Table 1).

Concentrations of VOCs and PCBs were not detected in the composite liquid sample collected from the clarifier above laboratory MDLs. Concentrations of SVOCs and metals were not

identified in the composite liquid sample collected from the clarifier above the most restrictive MDEQ Part 201 Residential Generic Cleanup Criteria. A low-level concentration of PCBs (0.2 µg/L) detected in the composite liquid sample collected from the waste oil storage vault did not exceed the TSCA cleanup levels for liquid PCBs discharged to a treatment works (3 µg/L) or the most restrictive MDEQ Part 201 Generic Cleanup Criteria (Table 2).

The results of RCRA list TCLP VOC, SVOC, and metals analytes for the clarifier and waste oil storage vault sediment and sludge samples were less than laboratory MDLs, and/or less than the RCRA Toxicity Characteristic Regulatory Concentrations (Table 3)

1.5.2 Concrete Analytical Results

A total of 30 destructive concrete samples (Table 4) were collected from Area 4, Area 5.1, and Area 8 on the Plant 2 portion of the Site, and 25 destructive concrete samples (Table 5) were collected from Area 11, and Area 14 on the Plant 3 portion of the Site (Figures 4 through 8).

No concentrations of PCBs were identified above laboratory MDLs in concrete samples collected from Plant 2-Area 4 or Area 5-1. No concentrations of PCBs were identified above laboratory MDLs and/or TSCA, 40 CFR §761(d)(4), direct contact criterion for high occupancy use (1,000 µg/Kg) in concrete samples collected from Plant 3-Area 14.

A concentration of PCBs (1,700 µg/Kg) was identified on Plant 2-Area 8 at sample location Plant-2-001-(I) above the TSCA direct contact criterion for high occupancy use (Figure 6). The extent of impact above the TSCA direct contact criteria is delineated to the north (Plant-2-001-(J)), east (Plant-2-001-(K)), south (Plant-2-001-(L)), and west (Plant-2-001-(M)).

Concentrations of PCBs were identified on Plant 3-Area 11 at sample locations Plant-3-F3A-(B) (1,200 µg/Kg), Plant-3-F3A-(G) (1,500 µg/Kg), Plant-3-F3A-(L) (1,800 µg/Kg), and Plant-3-F3A-(M) (3,800 µg/Kg), above the TSCA direct contact criterion for high occupancy use (Figure 7). The extent of impact above the TSCA direct contact criteria is delineated to the north (Plant-3-F3A-(J) and Plant-3-F3A-(A)), east (Plant-3-F3A-(C), Plant-3-F3A-(E), and Plant-3-F3A-(O)), south (Plant-3-F3A-(P)), and west (Plant-3-F3A-(D), Plant-3-F3A-(K), and Plant-3-F3A-(N)).

Concrete removal and offsite disposal will be required at Plant 2-Area 8 and Plant 3-Area 11 to satisfy TSCA high occupancy direct contract critiera standards with no cap restrictions.

1.6 Geology and Hydrogeology

A review of the 7.5 Minute, Lansing South Quadrangle, Map (Figure 1) prepared by the United States Geological Survey (USGS), dated 1965, photorevised 1973, indicates that the subject property is approximately 860 feet relative to the National Geodetic Vertical Datum (NGVD). The immediate subject property area appears to be relatively flat.

In general, the shallow lithology at the Site consists of 5 to 10 feet of sandy fill imported to the property during original construction activities, underlain by clay and clay/sand/silt mixtures that are interbedded with thin silt, sand and occasional gravel seams to depth of 30.0 feet below ground surface (bgs).

Groundwater beneath Plant 2 and 3 is encountered within multiple hydrostratigraphic units at varying depths across the Site. The groundwater at the Site has been divided into four units: deep bedrock, deep overburden, middle overburden (approximately 30.0 to 40.0 feet bgs), and perched (approximately 5.0 to 15.0 feet bgs) groundwater units. The perched groundwater units are generally located where fill material overlies low permeability clays. Often the perched groundwater is located immediately below the ground surface. The perched unit appears to be local, discontinuous, and potentially seasonal in nature. As such, the perched groundwater does not appear representative of an aquifer.

The primary water supply in the Lansing area is the Grand River-Saginaw aquifer, which is the principle source of municipal, industrial, and domestic drinking water in the Lansing area. The Grand River-Saginaw aquifer consists chiefly of sandstone as well as interbedded shale and siltstone. Because the sandstone of the Grand River Formation was formed within erosional valleys of the Saginaw Formation, the two formations are hydraulically connected and comprise one aquifer.

2.0 PCB WORK PLAN ACTIVITIES

Currently, the Site is unoccupied, all of the buildings have been demolished, and it is secured with perimeter fencing and locked gates. The property is currently for sale, and it is anticipated the subject property will be utilized for industrial Nonresidential uses following redevelopment.

The current use of the Site is consistent with a Nonresidential land-use under Michigan Part 201 and a low occupancy use as defined under TSCA. The anticipated future use of the Site is consistent with a Nonresidential land-use under Michigan Part 201 and a high occupancy use as defined under TSCA.

Therefore, in accordance with TSCA Subpart-D, the porous surface PCB remediation waste (i.e., waste oil storage tank sludge, and Plant 2-Area 8 and Plant 3-Area 11 concrete) exceeding the TSCA Direct Contact criterion for high occupancy (1,000 µg/Kg), will be removed from the Site by a qualified remediation contractor overseen by an environmental professional, and transported for proper disposal at a licensed TSCA-regulated disposal facility.

An estimated 4,000-gallons of storage vault liquid (including approximately 50 to 200-gallons of sludge) will be pumped from the vault and properly disposed at US Ecology's (formerly EQ) waste handling facility in Detroit, Michigan. The storage vault walls and floor will be pressure washed. All material (including washout material) from the vault will be manifested, transported, and properly disposed at US Ecology's (formerly EQ) waste handling facility located in Detroit, Michigan. Destructive concrete samples will be collected from the vault walls and floor in accordance with TSCA 40 CFR Part 761, Subpart O (Section 2.1), to verify PCB cleanup and allow for clarifier structure, demolition, decommissioning, removal, and/or disposal procedures to be conducted in accordance with the Clarifier Removal Project Manual (Eng October, 2014) included within Appendix A.

Up to 85 cubic yards of concrete (Figure 6 and Figure 7) will be removed from the Site by a qualified remediation contractor overseen by an environmental professional, and transported for proper disposal at Republic Services – C&C Expanded Sanitary Landfill waste handling facility located in Marshall, Michigan. Existing concrete samples will be utilized as verification of remediation samples, and additional concrete verification samples will be collected in

accordance with TSCA 40 CFR Part 761, Subpart O (Section 2.2) to confirm removal of PCB concrete impacts exceeding 1,000 µg/Kg. Additionally, soil samples will be collected in the areas of concrete removal to document whether PCB impact exists beneath the concrete. Soil samples will be collected in accordance with the 2002 MDEQ Training Materials for the Part 201 Cleanup Criteria and Part 213 Risk-Based Screening Levels guidance document, and TSCA requirements. Following verification that PCB impacts exceeding 1,000 µg/Kg were removed, Plant 2-Area 8 will be restored with compacted road gravel (i.e., crushed stone, gravel, crushed limestone, or equivalent material), and Plant 3-Area 11 will be backfilled with compacted sand to within 4.0-inches of the concrete surface and resurfaced with 4.0-inches of asphalt.

2.1 Storage Vault Verification Sampling

A concentration of PCBs (1,100 µg/Kg) was detected in a sample collected from the sludge within storage vault structure. Therefore, subsequent to removing and properly disposing of all vault contents and pressure washing the structure, PM will collect destructive concrete samples utilizing the grid pattern sampling procedure in accordance with TSCA 40 CFR Part 761, Subpart O, to confirm PCB cleanup and ensure elevated PCB concentrations are not present where the sludge contacted the vault walls and where sludge settled at the base of the vault. Results of the verification concrete sampling will determine if additional sampling and/or remediation is warranted.

The USEPA Region 1 SOP for Sampling Concrete in the Field will be used as general guidance to collect concrete samples for laboratory testing and analysis of PCBs.

The sample areas will be wiped with a clean dry cloth prior to drilling. A one-inch diameter carbide drill bit is used in a rotary impact hammer drill to drill a 1.0-inch deep hole and generate 20 grams of fine concrete powder suitable for analysis of PCBs in general accordance with USEPA method 8082. All site activities will be recorded on site-specific field logs

The concrete samples will be collected in appropriate sample containers and transported under chain of custody procedures for laboratory analysis within applicable holding times. The concrete samples will be submitted to Merit Laboratories, Inc. in East Lansing, Michigan for chemical analysis of PCBs using USEPA Method 8082.

2.2 Plant 2-Area 8 and Plant 3-Area 11 Verification Sampling

Existing concrete samples will be utilized as verification of remediation samples, and additional concrete verification samples will be collected utilizing the grid pattern sampling procedure in accordance with TSCA 40 CFR Part 761, Subpart O to confirm removal of PCB concrete impacts exceeding 1,000 µg/Kg.

The USEPA Region 1 SOP for Sampling Concrete in the Field will be used as general guidance to collect concrete samples for laboratory testing and analysis of PCBs.

Soil sampling will be performed in the areas of concrete removal to determine if PCBs are present in accordance with 40 CFR Part 761, Subpart O. The samples will be collected using the grid pattern sampling procedure in accordance with the USEPA Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup and 40 CFR Part 761 Subpart O Sec. 761.289. At each of the concrete removal locations discrete soil samples will be collected for laboratory

analysis of PCBs. Up to nine soil samples will be collected from Plant 2 Area-8 and up to 12 soil samples will be collected from Plant 3 Area 11. All samples will be submitted for laboratory analysis of PCBs using USEPA Method 8082. The exact number of discrete point samples will be determined based on the actual size of the concrete cut out. All site activities will be recorded on site-specific field logs.

The soil samples will be collected in appropriate sample containers placed in a cooler and transported under chain of custody procedures for laboratory analysis within applicable holding times. The soil samples will be submitted to Merit Laboratories, Inc. in East Lansing, Michigan for chemical analysis of PCBs using USEPA Method 8082.

Quality Assurance/Quality Control (QA/QC) samples will be collected for the soil matrix samples only and analyzed for PCBs. Actual sample depths will be based on field screening results and observations.

- Up to two co-located soil samples; and
- One Matrix Spike (MS)/Matrix Spike Duplicate (MSD) samples.

2.3 Project Staff

The following is a list of staff that are involved with this project.

- Project Manager: Casey Armstrong
- Site Safety Officer: Steve Stelter
- Project Staff: Cliff Walls, Doug Spencer, and Robert Hikade

2.4 Schedule

The project activities, which will include a survey of the impacted area, remediation, and restoration of the property, will be completed immediately following the approval of this PCB Work Plan.

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3.0 CERTIFICATION

In accordance with 40 CFR 761.61(a)(3)(i)(E), PM on behalf of RACER conducting this self-implementing cleanup, certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrument/chemical analysis procedures used to assess or characterize the PCB contamination at the subject site are on file at the PM office located at 3340 Ranger Road, Lansing, Michigan 48906, and are available for inspection by the USEPA.

Work Plan Prepared By:

Casey Armstrong
PM Project Manager

Date: June 3, 2015

Work Plan Reviewed By:

J. Adam Patton, CHMM
Manager of Site Investigation Services

Date: June 3, 2015

Figures

PM ENVIRONMENTAL Environmental & Engineering Services

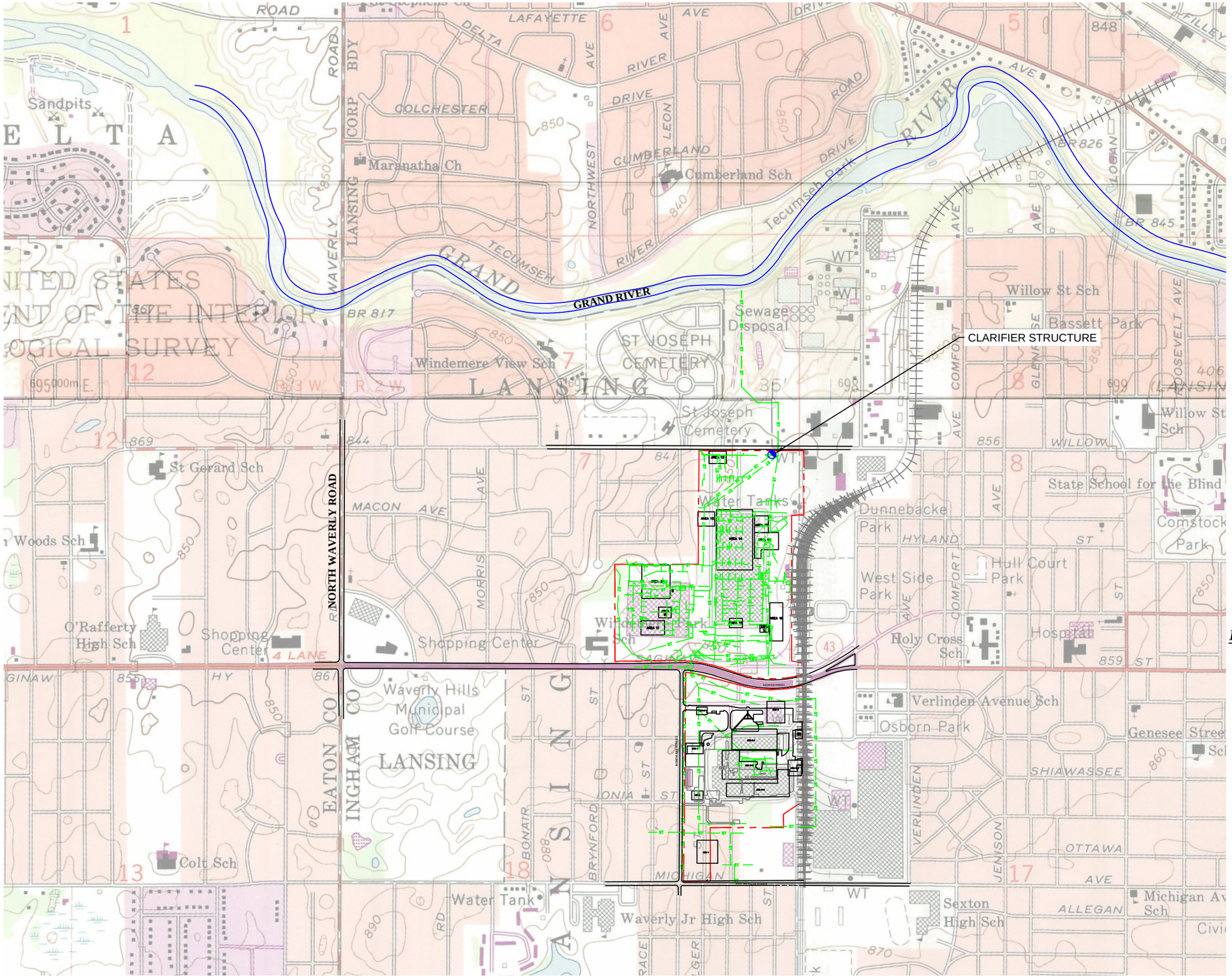

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FIGURE 1
SITE VICINITY DIAGRAM

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
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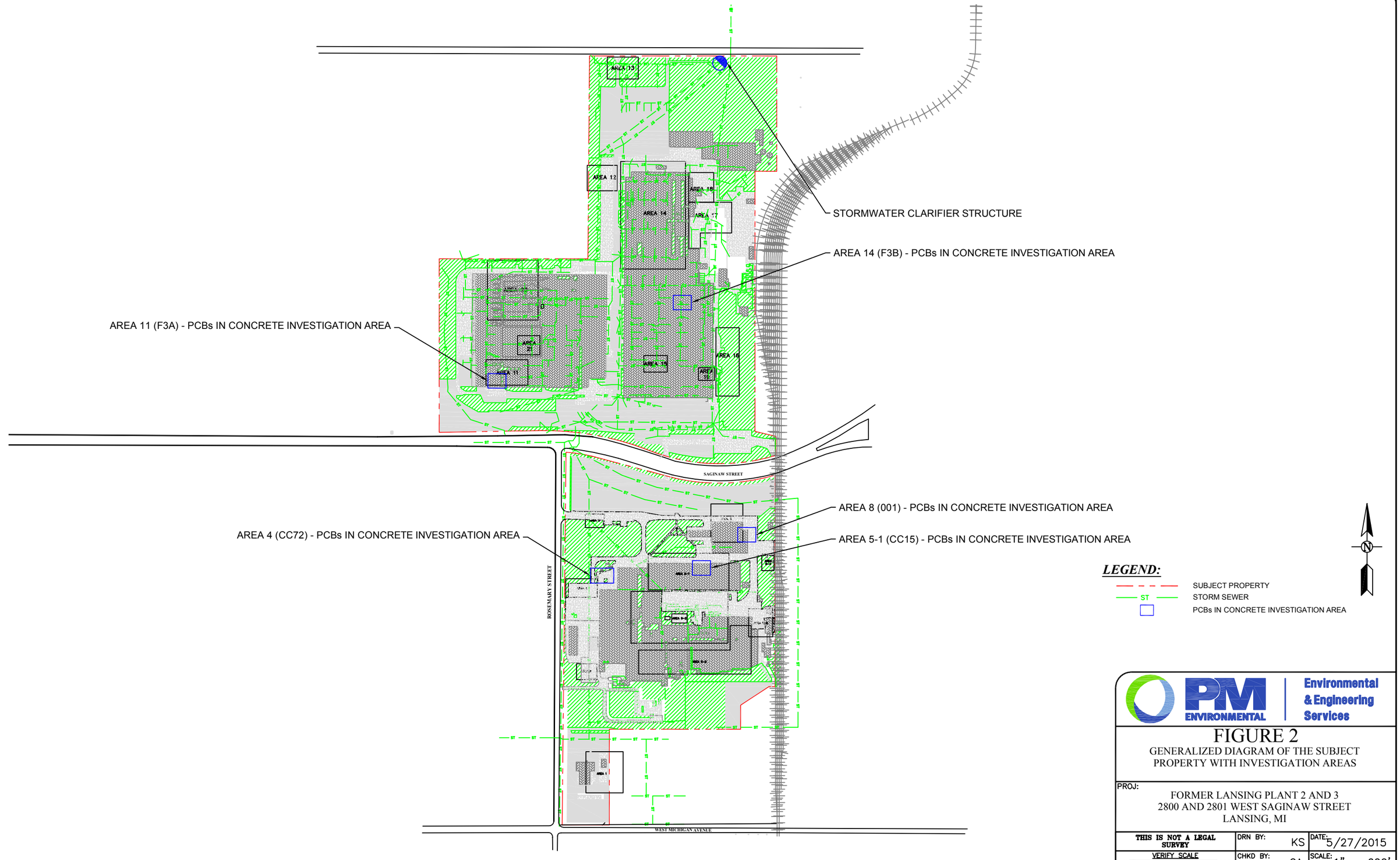

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FIGURE 2

GENERALIZED DIAGRAM OF THE SUBJECT PROPERTY WITH INVESTIGATION AREAS

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 600' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 600'
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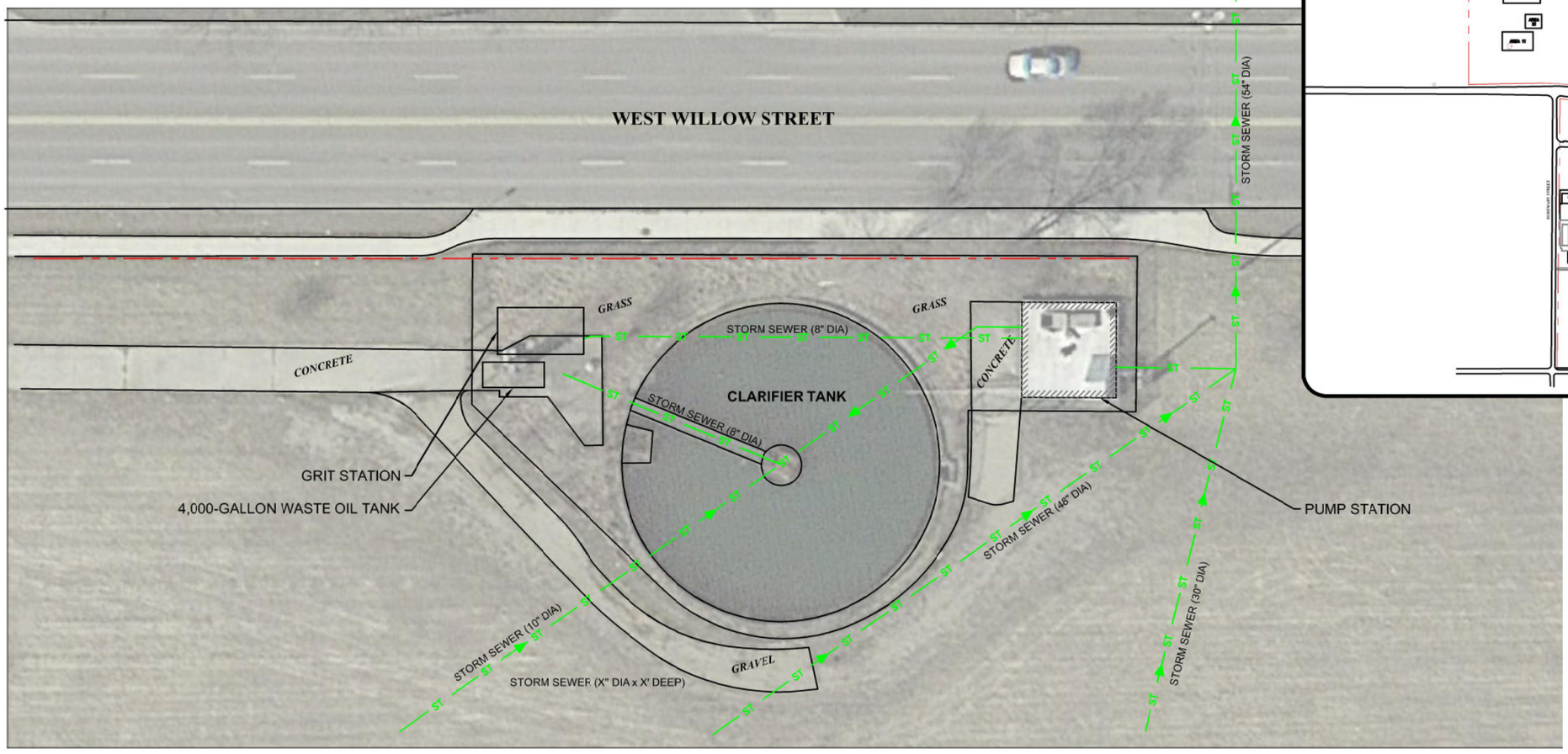

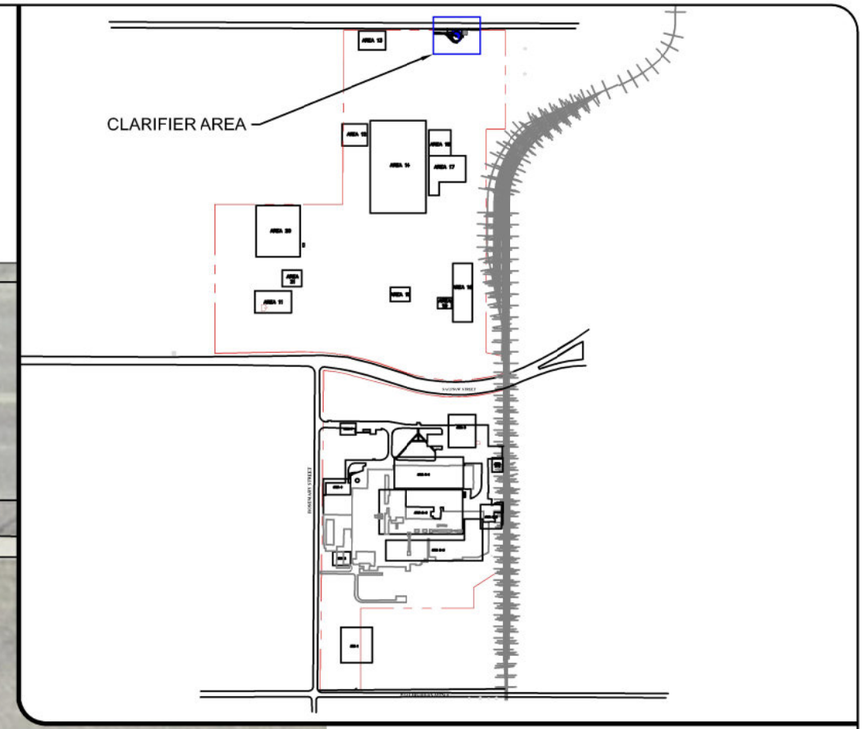

LEGEND:

- SUBJECT PROPERTY
- FENCE
- STORM SEWER

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FIGURE 3

STORM WATER CLARIFIER DIAGRAM

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 — 30' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 30'
	FILE NAME: 01-4173-6F00R02	

PLANT 2–CC72–(B)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2–CC72–(C)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 2–CC72–(E)
12/4/2014
CONCRETE CORE
PCBs <330

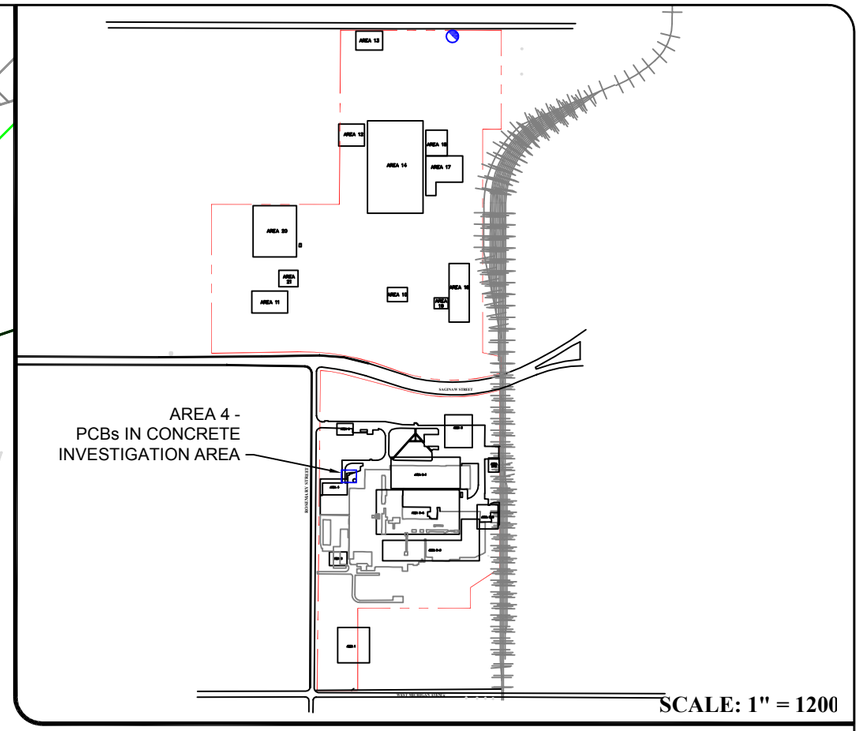
PLANT 2–CC72–(F)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 2–CC72–(G)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2–CC72–(H)
12/5/2014
CONCRETE CORE
PCBs <330

B
C
E
CC72
F
G
H

AREA 4



SCALE: 1" = 1200

N

LEGEND:

- SUBJECT PROPERTY
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- GRASS COVER
- CONCRETE PAVEMENT

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FIGURE 4

AREA 4

PCBs IN CONCRETE INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01–4173–6F00R02	

AREA 5-1

PLANT 2-CC15-(A)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(B)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(C)
12/4/2014
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(E)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(D)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(F)
3/30/2015
CONCRETE CORE
PCBs <330

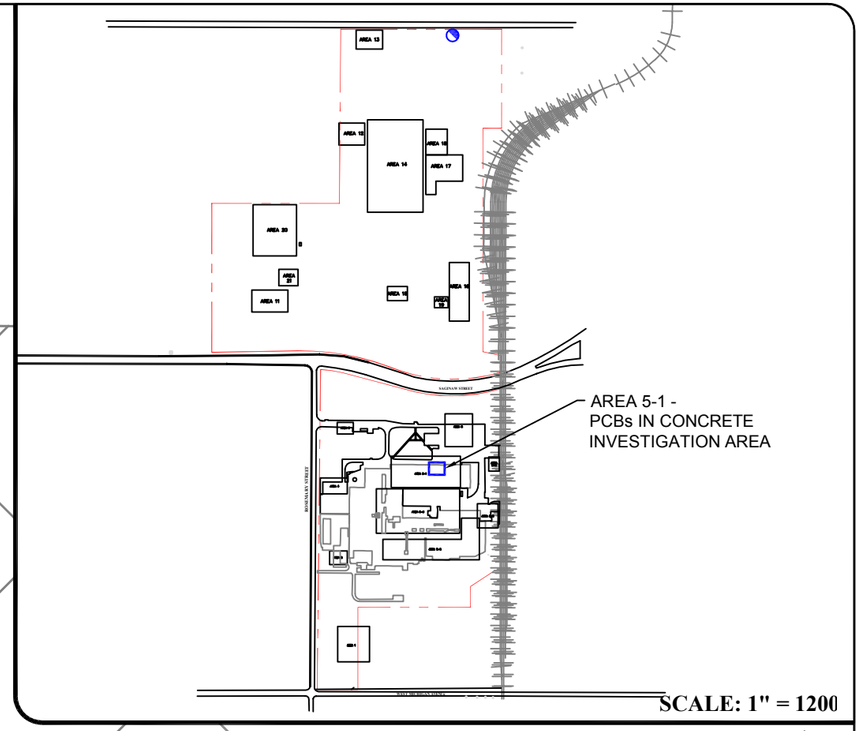
PLANT 2-CC15-(G)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(H)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 2-CC15-(I)
3/30/2015
CONCRETE CORE
PCBs <330

A B C D E F G H I

E
CC15



SCALE: 1" = 1200

N

LEGEND:

- SUBJECT PROPERTY
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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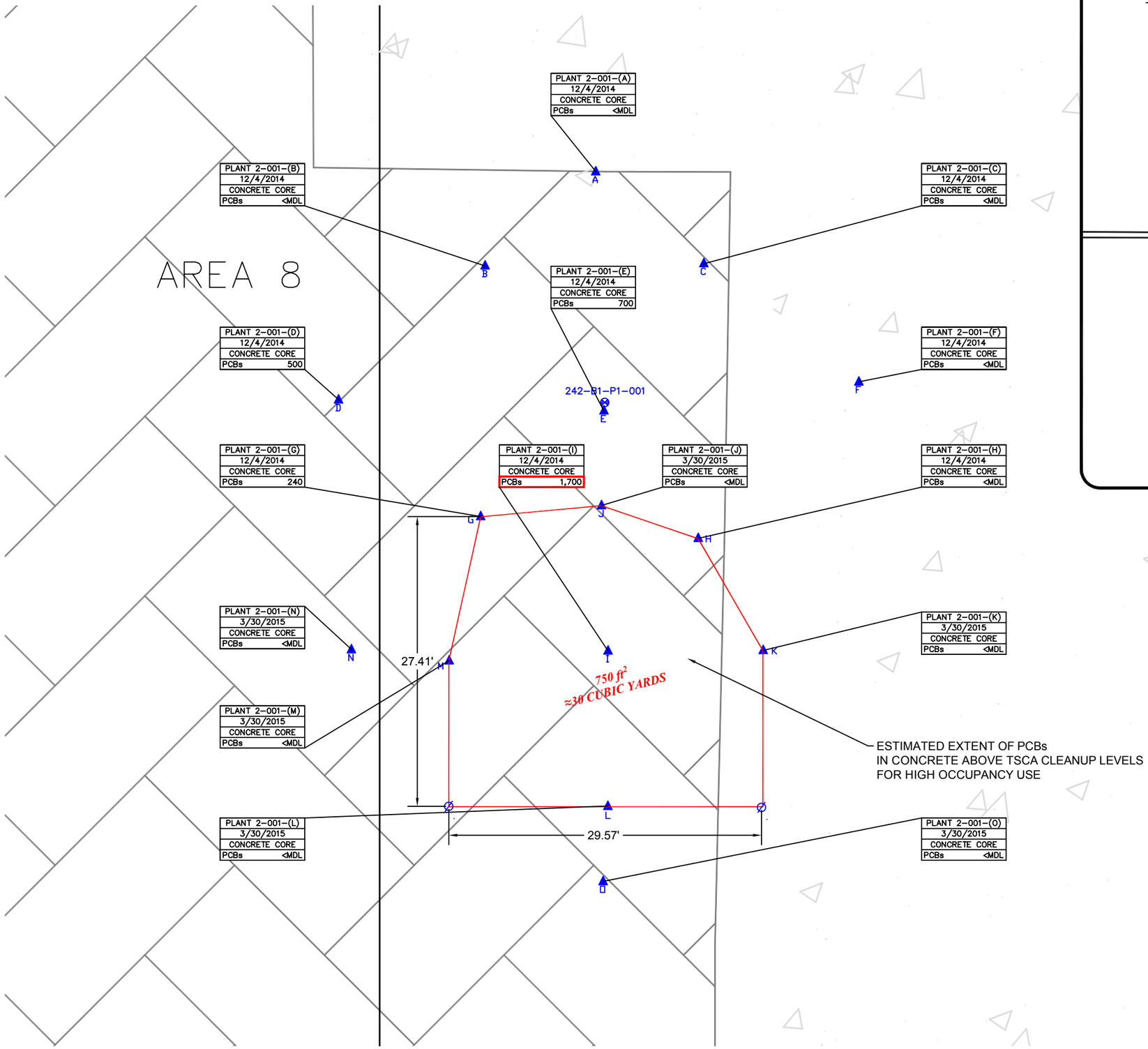
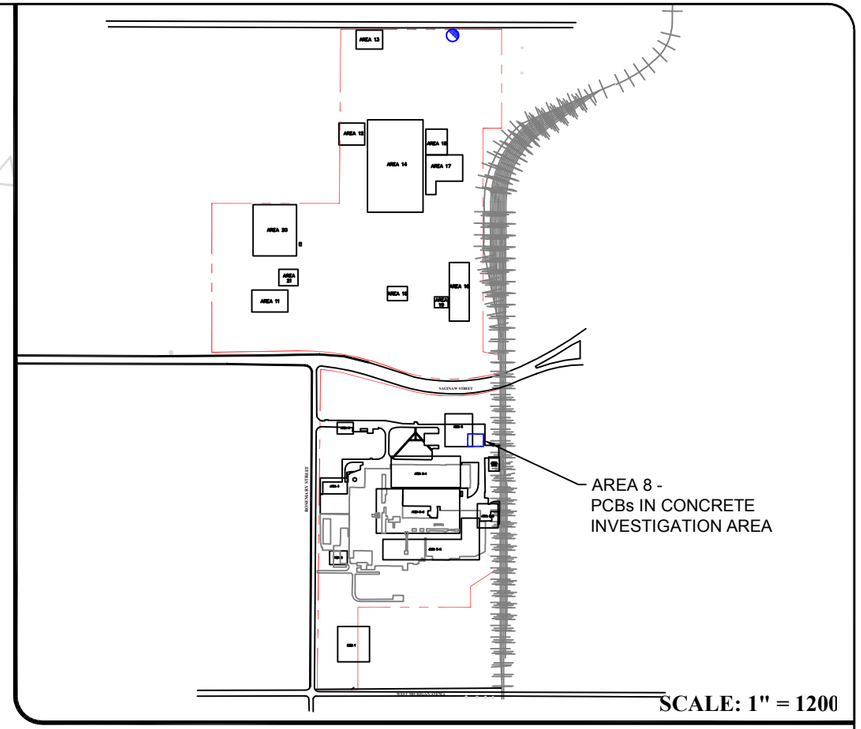
FIGURE 5

AREA 5-1
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 [redacted] 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01-4173-6F00R02	





SCALE: 1" = 1200

LEGEND:

- SUBJECT PROPERTY
- PROPOSED CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- PROPOSED CONCRETE SAMPLE LOCATION
- PCBs UNITs: POLYCHLORINATED BIPHENYLS µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 6

AREA 8

PCBs IN CONCRETE INVESTIGATION AREA

PROJ:

FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 ——— 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01-4173-6F00R02	

AREA 11

PLANT 3-F3A-(J)
3/30/2015
CONCRETE CORE
PCBs 400

PLANT 3-F3A-(B)
12/5/2014
CONCRETE CORE
PCBs 1,200

PLANT 3-F3A-(A)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(K)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(L)
3/30/2015
CONCRETE CORE
PCBs 1,800

PLANT 3-F3A-(C)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(M)
3/30/2015
CONCRETE CORE
PCBs 3,800

PLANT 3-F3A-(F)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(D)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(E)
12/5/2014
CONCRETE CORE
PCBs 250

PLANT 3-F3A-(N)
3/30/2015
CONCRETE CORE
PCBs <330

PLANT 3-F3A-(H)
12/5/2014
CONCRETE CORE
PCBs 220

PLANT 3-F3A-(G)
12/5/2014
CONCRETE CORE
PCBs 1,500

PLANT 3-F3A-(O)
3/30/2015
CONCRETE CORE
PCBs 1,000

PLANT 3-F3A-(P)
3/30/2015
CONCRETE CORE
PCBs 1,000

PLANT 3-F3A-(I)
12/5/2014
CONCRETE CORE
PCBs 400

J, A, B, K, L, C, F, M, D, F3A, E, N, G, O, H, I, P

15.00'

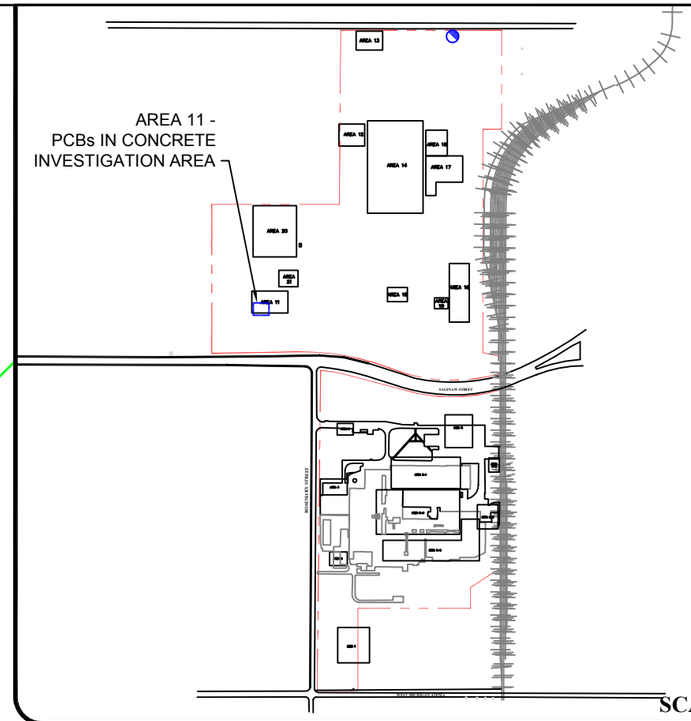
51.57'

24.22'

1500 ft² ≈55 CUBIC YARDS

ESTIMATED EXTENT OF PCBS
IN CONCRETE ABOVE TSCA CLEANUP LEVELS
FOR HIGH OCCUPANCY USE

AREA 11 -
PCBs IN CONCRETE
INVESTIGATION AREA



SCALE: 1" = 1200

N

LEGEND:

- SUBJECT PROPERTY
- PROPOSED CONCRETE REMOVAL AREA
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- Ø PROPOSED CONCRETE SAMPLE LOCATION
- PCBs POLYCHLORINATED BIPHENYLS
- UNITs µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- GRASS COVER
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 7

AREA 11
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 5/27/2015
VERIFY SCALE 0 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
	FILE NAME: 01-4173-6F00R02	

AREA 14

PLANT 3-F3B-(A)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(B)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(C)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(D)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(E)
12/5/2014
CONCRETE CORE
PCBs <330

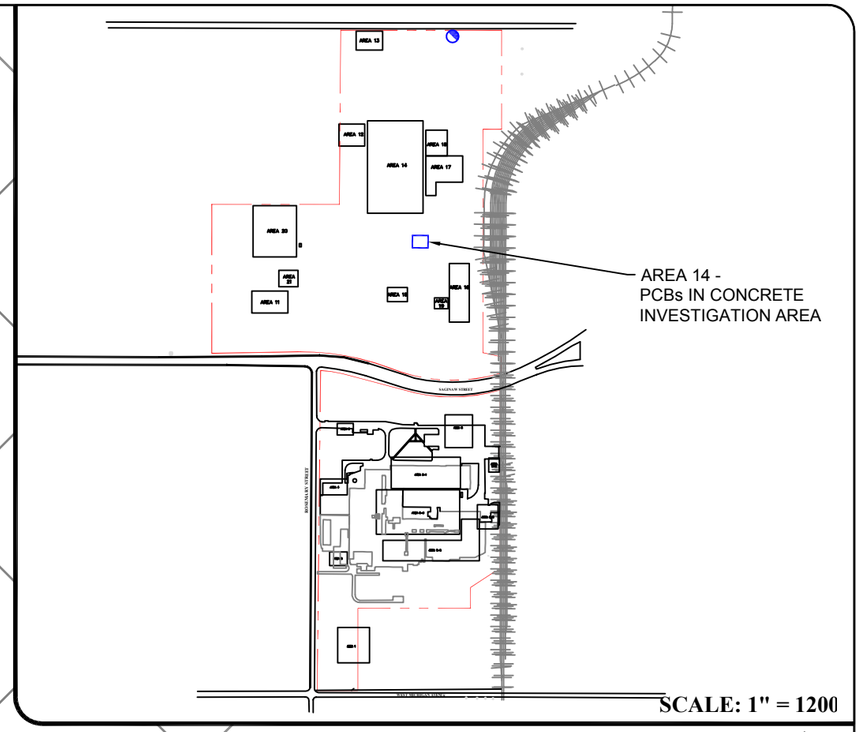
PLANT 3-F3B-(F)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(G)
12/5/2014
CONCRETE CORE
PCBs 500

PLANT 3-F3B-(H)
12/5/2014
CONCRETE CORE
PCBs <330

PLANT 3-F3B-(I)
12/5/2014
CONCRETE CORE
PCBs <330

A B C D E F G H I F3B



SCALE: 1" = 1200

N

LEGEND:

- SUBJECT PROPERTY
- ST — STORM SEWER
- PREVIOUS CONCRETE SAMPLE LOCATION
- PM CONCRETE SAMPLE LOCATION
- ∅ PROPOSED CONCRETE SAMPLE LOCATION
- PCBs UNITs: µg/Kg (UNLESS NOTED)
- NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED
- CONCRETE PAVEMENT (FORMER WOOD BLOCK FLOORING)

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FIGURE 8

AREA 14
PCBs IN CONCRETE INVESTIGATION AREA

PROJ:
FORMER LANSING PLANT 2 AND 3
2800 AND 2801 WEST SAGINAW STREET
LANSING, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS	DATE: 8/14/2012
VERIFY SCALE 0 — 10' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: CA	SCALE: 1" = 10'
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Tables

PM ENVIRONMENTAL Environmental & Engineering Services

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

Polychlorinated Biphenyls (PCBs) **(µg/Kg)**			Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Clarifier Sludge	10/3/2014	NA	500
Waste Oil Storage Tank Sludge	10/3/2014	NA	**1,100**
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels (S_{VI-res})			1,900
Nonresidential Vapor Intrusion Soil Screening Levels (S_{VI-nr})			39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	**1,000 µg/Kg**	4,000 µg/Kg
Nonresidential	10,000 µg/Kg	16,000 µg/Kg

	Criterion Exceeded
BOLD	Value Exceeds Criterion
bgs	Below Ground Surface (feet)
NA	Not Applicable
NL	Not Listed
NLL	Not Likely to Leach
NLV	Not Likely to Volatilize
ID	Insufficient Data

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PCBS, SVOCS, VOCS, AND METALS
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

SEMI-VOLATILE ORGANIC COMPOUNDS (µg/L)				Total Polychlorinated Biphenyls	Acenaphthene	bis(2-Ethylhexyl)phthalate	Other SVOCs	Volatile Organic Compounds	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc
Chemical Abstract Service Number (CAS#)				1336363	83329	117817	Various	Various	7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666
Sample ID	**Sample Date**	**Screen Depth (feet bgs)**	**Depth to Groundwater (feet bgs)**	**PCBs**	**SVOCs**			**VOCs**	**MICHIGAN TEN METALS**									
Clarifier Liquid	10/03/15	NA (Composite)	NA	<0.1	<5	5	<MDL	<MDL	2	69	<0.5	<5	<5	<5	<0.2	<5	<0.5	<5
Waste Oil Storage Vault Liquid	10/03/15	NA (Composite)	NA	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**																		
Residential/Nonresidential (µg/L)																		
Residential Drinking Water (Res DW)				0.5 {A}	1,300	6.0 (A)	Various	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	34	2,400
Residential Health Based Drinking Water Values				NL	NL	NL	Various	Various	NL	NL	NL	NL	1,400 {E}	NL	NL	NL	NL	NL
Nonresidential Drinking Water (Nonres DW)				0.5 {A}	3,800	6.0 (A)	Various	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	98	5,000 {E}
Nonresidential Health Based Drinking Water Values				NL	NL	NL	Various	Various	NL	NL	NL	NL	4,000 {E}	NL	NL	NL	NL	NL
Groundwater Surface Water Interface (GSI)				0.2 {M}; 2.6E-5	38	25	Various	Various	10	{G}	{G,X}	11	{G}	{G,X}	0.0013	5.0	0.2 {M}; 0.06	{G}
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) [2]				45 {S}	4,200 {S}	NLV	Various	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) [2]				45 {S}	4,200 {S}	NLV	Various	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV
Screening Levels (µg/L)																		
Residential Groundwater Vapor Intrusion Screening Levels (GW_{VI-res}) [3]				7.4	55,000	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Nonresidential Groundwater Vapor Intrusion Screening Levels (GW_{VI-nr})[3]				37	2.30E+05	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Residential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI-sump-res}$)[4]				0.50	55	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Nonresidential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI-sump-nr}$)[4]				0.50	2.30E+02	NL	Various	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL
Water Solubility				45	4,200	340	Various	Various	NA	NA	NA	NA	NA	NA	56	NA	NA	NA
Flammability and Explosivity Screening Level				ID	ID	NA	Various	Various	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
DRAFT Acute Vapor Intrusion Screening Levels for Groundwater (µg/L)																		
IRASL Groundwater (AGW_{VI})				NL	NL	NL	Various	Various	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
IRASL Groundwater In Contact With Structure ($AGW_{VI-sump}$)				NL	NL	NL	Various	Various	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Criteria Exceeded

BOLD Value Exceeds Criteria

bgs Below Ground Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

[1] Rule 323.1057 of Part 4 Water Quality Standards

[2] Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

[3] (2013 Vapor Intrusion Guidance) Screening Levels based on depth to groundwater less than 1.5 meters and not in contact with building foundation

[4] (2013 Vapor Intrusion Guidance) Screening levels based on groundwater in contact with the building foundation or within a sump

NA Not Applicable

NL Not Listed

NLL Not Likely to Leach

NLV Not Likely to Volatilize

ID Insufficient Data

TABLE 3
SUMMARY OF WASTE CHARACTERIZATION DATA
FLASHPOINT, pH, REACTIVE CYANIDE, REACTIVE SULFIDE, TCLP METALS/VOCs/SVOCs
RACER LANSING PLANT 3 - CLARIFIER
PM PROJECT # 01-4173-6

WASTE CHARACTERIZATION DATA		FLASHPOINT	pH	Reactive Cyanide	Reactive Sulfide	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Volatile Organic Compounds	Semi-Volatile Organic Compounds
Chemical Abstract Service Number (CAS#)		NA	NA	NA	NA	7440382	7440393	7440439	16065831	7439921	7439976	7782492	7440224	Various	Various
Sample ID	**Sample Date**	**General**				**TCLP Metals**								**TCLP VOCs**	**TCLP SVOCs**
Clarifier Sludge	10/3/14	ND	7.15	ND	ND	40	740	<5	<50	<50	<0.2	<50	<5	<MDL	<MDL
Waste Oil Storage Tank Liquid	10/3/14	ND	7.29	ND	ND	<20	<50	<5	<50	<50	<0.2	<50	<5	<MDL	<MDL
Waste Oil Storage Tank Sludge	10/3/14	ND	7.4	ND	ND	<20	50	<5	<50	<50	<0.2	<50	<5	<MDL	<MDL
RCRA Toxicity Characteristic Regulatory Concentration		NA	NA	NA	NA	5,000	100,000	1,000	5,000	5,000	200	1,000	5	Various	Various
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**															
Residential/Nonresidential (µg/L)															
Residential Drinking Water (Res DW)		NA	NA	NA	NA	10 {A}	2,000 {A}	5.0 {A}	100 {A}	4.0 {L}	2.0 {A}	50 {A}	34	Various	Various
Residential Health Based Drinking Water Values		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	NL	NL	Various	Various
Nonresidential Drinking Water (Nonres DW)		NA	NA	NA	NA	10 {A}	2,000 {A}	5.0 {A}	100 {A}	4.0 {L}	2.0 {A}	50 {A}	98	Various	Various
Nonresidential Health Based Drinking Water Values		NA	NA	NA	NA	NL	NL	NL	NL	NL	NL	NL	NL	Various	Various
Groundwater Surface Water Interface (GSI)		NA	NA	NA	NA	10	{G}	{G,X}	11	{G,X}	0.0013	5.0	0.2 {M}; 0.06	Various	Various
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) [2]		NA	NA	NA	NA	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	Various	Various
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) [2]		NA	NA	NA	NA	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	Various	Various
Screening Levels (µg/L)															
Residential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}res}$) [3]		NA	NA	NA	NA	NL	NL	NL	NL	NL	ID	NL	NL	Various	Various
Nonresidential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}nr}$)[3]		NA	NA	NA	NA	NL	NL	NL	NL	NL	ID	NL	NL	Various	Various
Residential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI\text{-}sump\text{-}res}$)[4]		NA	NA	NA	NA	NL	NL	NL	NL	NL	ID	NL	NL	Various	Various
Nonresidential Vapor Intrusion Shallow Groundwater Screening Levels ($GW_{VI\text{-}sump\text{-}nr}$)[4]		NA	NA	NA	NA	NL	NL	NL	NL	NL	ID	NL	NL	Various	Various
Water Solubility		NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	Various	Various
Flammability and Explosivity Screening Level		NA	NA	NA	NA	ID	ID	ID	ID	ID	ID	ID	ID	Various	Various

Criteria Exceeded

BOLD Value Exceeds Criteria

bgs Below Grade Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 2
PM PROJECT # 01-4173-6

Total Polychlorinated Biphenyls (PCBs) (µg/Kg)			Total Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Area 8			
Plant-2-001-(A)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(C)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(D)	12/04/2014	Destructive Concrete	500
Plant-2-001-(E)	12/04/2014	Destructive Concrete	700
Plant-2-001-(F)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(G)	12/04/2014	Destructive Concrete	240
Plant-2-001-(H)	12/04/2014	Destructive Concrete	<330
Plant-2-001-(I)	12/04/2014	Destructive Concrete	**1,700**
Plant-2-001 (J)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (K)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (L)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (M)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (N)	03/30/2015	Destructive Concrete	<330
Plant-2-001 (O)	03/30/2015	Destructive Concrete	<330
Area 5-1			
Plant-2-CC15-(A)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(C)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(D)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(E)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(F)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(G)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(H)	12/04/2014	Destructive Concrete	<330
Plant-2-CC15-(I)	12/04/2014	Destructive Concrete	<330
Area 4			
Plant-2-CC72-(B)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(C)	12/05/2014	Destructive Concrete	<330
Plant-2-CC72-(E)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(F)	12/05/2014	Destructive Concrete	<330
Plant-2-CC72-(G)	12/04/2014	Destructive Concrete	<330
Plant-2-CC72-(H)	12/05/2014	Destructive Concrete	<330

Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50)
Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013
MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013

Residential (µg/Kg)	
Statewide Default Background Levels	NA
Drinking Water Protection (Res DWP)	NLL
Groundwater Surface Water Interface Protection (GSIP)	NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)	3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)	2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness	7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness	7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)	5.2E+06
Direct Contact (Res DC)	{T}
Nonresidential (µg/Kg)	
Drinking Water Protection (Nonres DWP)	NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)	1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)	8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness	2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness	2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)	6.5E+06
Direct Contact (Nonres DC)	{T}
Screening Levels (µg/Kg)	
Soil Saturation Concentration Screening Levels (Csat)	NA
Residential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}res}$)	1,900
Nonresidential Vapor Intrusion Soil Screening Levels ($S_{VI\text{-}nr}$)	39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	1,000 µg/Kg (uncapped)	4,000 µg/Kg
Nonresidential	10,000 µg/Kg (capped)	16,000 µg/Kg

Criterion Exceeded
BOLD Value Exceeds Criterion
bgs Below Ground Surface (feet)
NA Not Applicable
NLL Not Likely to Leach

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS IN CONCRETE
RACER LANSING PLANT 3
PM PROJECT # 01-4173-6

Total Polychlorinated Biphenyls (PCBs)			Total Polychlorinated Biphenyls
Chemical Abstract Service Number (CAS#)			1336363
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**
Area 11			
Plant-3-F3A-(A)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(B)	12/05/2014	Destructive Concrete	**1,200**
Plant-3-F3A-(C)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(D)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(E)	12/05/2014	Destructive Concrete	250
Plant-3-F3A-(F)	12/05/2014	Destructive Concrete	<330
Plant-3-F3A-(G)	12/05/2014	Destructive Concrete	**1,500**
Plant-3-F3A-(H)	12/05/2014	Destructive Concrete	220
Plant-3-F3A-(I)	12/05/2014	Destructive Concrete	400
Plant-3-F3A (J)	03/30/2015	Destructive Concrete	400
Plant-3-F3A (K)	03/30/2015	Destructive Concrete	<330
Plant-3-F3A (L)	03/30/2015	Destructive Concrete	**1,800**
Plant-3-F3A (M)	03/30/2015	Destructive Concrete	**3,800**
Plant-3-F3A (N)	03/30/2015	Destructive Concrete	<330
Plant-3-F3A (O)	03/30/2015	Destructive Concrete	1,000
Plant-3-F3A (P)	03/30/2015	Destructive Concrete	1,000
Area 14			
Plant-3-F3B-(A)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(B)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(C)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(D)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(E)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(F)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(G)	12/05/2014	Destructive Concrete	500
Plant-3-F3B-(H)	12/05/2014	Destructive Concrete	<330
Plant-3-F3B-(I)	12/05/2014	Destructive Concrete	<330
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**			
Residential (µg/Kg)			
Statewide Default Background Levels			NA
Drinking Water Protection (Res DWP)			NLL
Groundwater Surface Water Interface Protection (GSIP)			NLL
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06
Direct Contact (Res DC)			{T}
Nonresidential (µg/Kg)			
Drinking Water Protection (Nonres DWP)			NLL
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06
Direct Contact (Nonres DC)			{T}
Screening Levels (µg/Kg)			
Soil Saturation Concentration Screening Levels (Csat)			NA
Residential Vapor Intrusion Soil Screening Levels (S_{VI-res})			1,900
Nonresidential Vapor Intrusion Soil Screening Levels (S_{VI-nr})			39,000

{T} Refer to the Toxic Substance Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential/High Occupancy	**1,000 µg/Kg (capped)**	4,000 µg/Kg
Nonresidential	10,000 µg/Kg (uncapped)	16,000 µg/Kg

Criterion Exceeded
BOLD Value Exceeds Criterion
bgs Below Ground Surface (feet)
NA Not Applicable
NLL Not Likely to Leach

Appendix A

PM ENVIRONMENTAL Environmental & Engineering Services

PROJECT MANUAL

CLARIFIER REMOVAL AND SITE RESTORATION
LANSING PLANT 3 INDUSTRIAL LAND
2800 Saginaw Street, Lansing Township, Michigan

October 2014

ENGINEER:

Eng.™
Engineering & Surveying
4063 Grand Oak Drive, Suite A109
Lansing, Michigan 48911

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Eng., Inc.

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PROJECT MANUAL-LANSING PLANT 3 CLARIFIER REMOVAL October 1, 2014

PROJECT MANUAL

CLARIFIER REMOVAL AND SITE RESTORATION
LANSING PLANT 3 INDUSTRIAL LAND
2800 Saginaw Street, Lansing Township, Michigan

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1.0 CONFIDENTIALITY

This Project Manual and all information contained herewith are **Confidential**. Contractor and prospective subcontractors agree to hold confidential and not to release, without prior written approval from RACER, all data on by-products, facilities, plans, and programs, including environmental conditions obtained from RACER except that such data may be provided to its subcontractors who reasonably require such information in order to perform Work under this contract, or as may be required by applicable government regulations or court order, with prior written notice to RACER.

2.0 INVITATION TO BID

Contractor is invited to submit a LUMP SUM BID in exact accordance with this Project Manual. The Bid Form is included and must be utilized (Attachment 1). Failure to utilize the supplied form will invalidate your proposal. If you do not intend to submit a Bid for this project please respond promptly by e-mail to David Favero and Greg Minshall at the addresses below.

Submit a PDF file of your Bid inclusive of all materials requested and send by e-mail to:

David Favero
RACER
500 Woodward Avenue, Suite 1510
Detroit, MI 48226
dfavero@racertrust.org
Phone: (217) 741-6235

Gregory Minshall, PE
Eng., Inc.
4063 Grand Oak Drive; A109
Lansing, MI 48911
minshallg@engdot.com
Phone: (517) 887-1100

The Bid must be received via e-mail no later than:

Friday, October 24, 2014
5:00 PM ET

Also submit one paper copy of your Bid inclusive of all materials requested to David Favero at the above address. The paper copy of your Bid must be postmarked on or before Friday, October 24, 2014.

We welcome suggestions regarding changes in the scope of work, specifications, and/or modifications, which will aid in reducing costs without impairing quality. However, your Base Bid must be submitted on the basis of this Project Manual and all its Attachments. All voluntary alternates are to be presented as a separate "deduct" price from the Base Bid. Failure to provide a proposal per the Project Manual may invalidate your proposal.

RACER reserves the right to negotiate any changes in the Work based on the Contractor's Bid, including assumptions, exceptions, additions to, or deletions from the Work. Such negotiations shall not necessitate republication of a Project Manual. In addition, RACER reserves the right to

select different Contractors for different components of the Work, or to reject any or all portions of the Bids, or to reject any and all Bids.

TENDERS

Only Bids submitted by e-mail and mail as identified above will be accepted. Changes to a Bid will be accepted if received via e-mail or mail as identified above, prior to the date and time specified. The Bidder must verify that the Bid price will be valid for at least 45 days from the Bid due date.

PRE-BID WALK

The mandatory project Bid walk is scheduled for **Wednesday, October 8, 2014 @ 3:00 p.m.** at the Willow Street entrance to the Site.

QUESTIONS

Questions regarding this IFB and all related information should be sent to David Favero and Greg Minshall at the above e-mail addresses no later than 5 pm ET on Friday, October 10, 2014.

AWARD

RACER reserves the right to award any portion of the Work to one or more Contractors or to reject any or all portions of the Bids, or to reject any and all Bids. RACER anticipates awarding the Work and finalizing an Agreement with the selected Contractor(s) within 30 days of the Bid due date.

Notice to Award will be provided via e-mail.

NOTICE TO PROCEED

Notice to Proceed will be provided by way of a fully executed Agreement and Purchase Order from RACER.

3.0 AGREEMENT

The Agreement for performance of the Work is included as Attachment 2.

4.0 WORK SPECIFICATIONS AND CONDITIONS

The Work generally consists of preparing required plans schedules and progress reports, removing pavement, disconnecting utilities (electrical and storm sewer), removing all contents of the structures, removing contents of the clarifier, pump station, grit chamber and oil chamber, removing the walls of the structures to a depths of 3 feet below grade, breaking or otherwise creating drainage through bottoms of the structures, providing all needed erosion control, properly disposing or salvaging all removed material, filling the structures to grade including a topsoil cover, and seeding and fertilizing the Work Area all related to and necessary for removal

of the clarifier, pump station, grit chamber and oil chamber. Work also includes repairing two failed catch basins in the adjacent parking lot.

The Contractor shall conduct the Work in accordance with the Specification and Conditions contained in Attachment 3 and the Drawings contained in Attachment 4 to this Project Manual. Waste characterization and asbestos data is included in Attachment 5 for the Contractor's information.

Except as otherwise provided in this Project Manual the Contractor shall furnish all labor, materials, tools, equipment, temporary facilities, supervision, Work Area security and services necessary to execute and complete the Work in strict accordance with this Project Manual and all its Attachments and all applicable Federal, State and Local regulations, codes and standards.

5.0 OBLIGATIONS OF BIDDERS

Contractor shall have reviewed all of the information provided or made available to them by RACER, attended the pre-Bid Site walk, and have made its own independent inquiries and investigations to fully understand the requirements of performing the Work and represents that it is familiar with the physical conditions and risks which are inherent in the activities which the Scope of Work contemplates.

Each Contractor shall have read and become thoroughly familiar with all components of this Project Manual, and any/all pre-Agreement addenda. Each Contractor shall examine the Work Area to inform and satisfy itself as to all matters for carrying on its work, including general working conditions, labor relations, accessibility to the Site and work areas, and conditions of premise.

The details, levels, and information shown on any drawings or sketches are furnished in good faith by RACER, but shall in no way relieve Contractors of the responsibility for ascertaining to their own satisfaction, the nature of all quantities and conditions at the Sites.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH QUANTITIES AND EXTENT OF ALL ASBESTOS REMOVAL, UTILITIES SEPARATION, DECOMMISSIONING, AND DEMOLITION MATERIALS BASED ON FIELD VERIFICATION OF EXISTING ELEMENTS AT THE SITE PRIOR TO SUBMITTING A TENDER FOR CONSIDERATION BY RACER. ALL VOLUMES, WEIGHTS, LENGTHS, OR MEASURE OF ANY KIND PROVIDED BY RACER OR ITS REPRESENTATIVES ARE FOR INFORMATION PURPOSES ONLY. RACER SHALL NOT CONSIDER ANY CLAIMS FOR ANY CONDITIONS, MATERIALS, MEASUREMENTS, QUANTITY DISCREPANCY, FOUNDATIONS OR OTHER WHATSOEVER DISCOVERED BY THE CONTRACTOR AFTER NOTICE TO PROCEED HAS BEEN ISSUED.

6.0 PROJECT MANUAL INTERPRETATION PRIOR TO BID SUBMISSION

If any person contemplating submitting a Bid for execution of the Work is in doubt as to the true meaning of any part of this Project Manual, including the Agreement, or finds any discrepancies in or omissions from any part of this Project Manual, he/she may submit to David Favero a written e-mail request for interpretation thereof not later than **5 p.m. ET on Friday, October 17, 2014**.

Interpretation or correction of this Project Manual, including the Agreement, will be made only by addendum, and will be e-mailed to each potential bidder.

ATTACHMENT 1

BID FORM

BID FORM

CLARIFIER REMOVAL AND SITE RESTORATION
LANSING PLANT 3 INDUSTRIAL LAND
2800 Saginaw Street, Lansing Township, Michigan

Contractor Name: _____

Prepared By: _____

Telephone Number: _____

E-mail: _____

Duns #: _____

CONTRACTOR'S BID:

I, the undersigned, certify that I am authorized to submit this Bid on behalf of the Contractor identified above, that this Bid will be valid for at least 45 days from the Bid due date, and that we have prepared and submitted this Bid as directed in the Project Manual, and will provide all labor, materials, equipment, supplies, and services required for the Work:

_____ _____
Signature Date

_____ _____
Name Title

In strict accordance with the Project Manual and all its Attachments, including all applicable taxes, for the Lump Sum of:

Combined Total: $ _____

We acknowledge receipt of the following addendum(s), which are included in our Bid:

_____

Bid Form (continued)

Contractor must bid according to the Invitation for Bids. Exceptions or qualification statements must be submitted along with this Bid Form. This Bid Form must be completed in its entirety at time of submission unless otherwise noted.

PRICE GUARANTEE:
The prices stated in this proposal are guaranteed for at least 45 days from the Bid due date, and if authorized to proceed within this period, we will agree to complete the work covered by this proposal at stated prices.

BASE BID BREAKDOWN:

Contractor Name: _____

ITEMS	BID AMOUNT
Mobilization, General Conditions, Health & Safety, Project Coordination, Permits, Traffic Control, Performance and Payment Bonds, etc.	$ _____
Clarifier, Pump Station and Grit Chamber Mechanical and Electrical Equipment Removal and Disposal, Potential Asbestos Sampling and Testing.	$ _____
Break Bottoms, Removal of Walls, Engineered Fill	$ _____
Site Restoration and Catch Basin Repairs	$ _____
Salvage Value (steel, copper, aluminum, etc.)	$ (_____)
TOTAL	$ _____

Length of time to complete after Notice to Proceed _____

ALTERNATE:

	ADD	DEDUCT
Alternate No. 1 Asbestos Removal	$ _____	$ _____

Description of Alternate:

Alternate No. 1: If asbestos sampling and testing yield positive results for asbestos, then Asbestos Removal will be added to the contract.

Bid Form (continued)

UNIT PRICES:
Provide a Schedule of Values using AIA format.

SAFETY:
Please provide your last three Experience Modification Rate (EMR) factors. The EMR is a multiplier utilized by your Comprehensive Insurance Provider in determining your insurance rate.

Year	EMR
_____	_____
_____	_____
_____	_____

SCOPE OF WORK AND SCHEDULE:
Please provide a written description of your Scope of Work, Sequencing, and Project Schedule (in weeks), defining work to be performed and sequencing.

LIST OF SUBCONTRACTORS:
The Contractor shall provide the names of the subcontractors that form the basis of its Bid and for each subcontractor provide the following;

1. Address and principal contact
2. The work they will perform
3. The estimated value of work to be performed
4. The last three Experience Modification Rate (EMR) factors
5. Whether or not they are a Minority (If the subcontractor is a minority, the Contractor shall also include a copy of the written representation received from the minority business enterprise concerning minority ownership.)

Failure to provide the requested information at the time the Bid is submitted will be sufficient cause for the rejection of any bid or any part of any Bid. Please provide this information on a separate page.

Utilization of Minority Contractors/Suppliers
It is the policy of RACER Trust that minority business enterprises shall have the opportunity to participate in the performance of RACER contracts and RACER Trust encourages the use of minority subcontractors.

Bid Form (continued)

The following are considered minorities for the purpose of this Project Manual:

Afro-Americans; American Indians; Hispanics whose origins is from any Latin American Country in South America, Central America or the Caribbean. This includes Brazilians and Puerto Ricans, Orientals whose origin is from China, Japan, or Korea; Indonesians, Philippines; whose origin is from India and Pakistan; Micronesians, Polynesians, Samoans and native Hawaiians. (Native Hawaiians are those descendants of persons who lived on the island of Hawaii prior to its discovery by the English); Aleuts, Eskimos.

Generally a minority company is one that is minority group owned and controlled, or where provisions are established for eventual minority group ownership control. Also, minority group personnel must primarily fill manager and supervisor positions.

You may contact the Minority Supplier Development Council at (212) 944-2430 to obtain supplier information.

ATTACHMENT 2

AGREEMENT

AGREEMENT FOR REMOVAL OF CLARIFIER
RACER TRUST PROPERTY, LANSING TWP., MI

THIS AGREEMENT ("Agreement") is made and entered into by and between Revitalizing Auto Communities Environmental Response Trust, a New York trust, RACER Properties LLC, a Delaware Corporation (collectively **"RACER"**), and _____ ("**Contractor**"). RACER and Contractor may be referred to in this Agreement individually as "**Party**" and collectively as "**Parties**."

WHEREAS, RACER's wholly-owned subsidiary RACER Properties LLC owns property in Lansing Township at 2800 West Saginaw Street (the "**Facility**");

WHEREAS, Contractor has agreed to remove the clarifier contents, the clarifier itself, and restore the area located at the Facility, in accordance with the specifications (collectively, the removal, transportation, and disposal of the contents and structure, restoration of the area, and other associated activities required of the Contractor by this Agreement are referred to herein as the "**Work**") as set forth in the Project Manual; and

WHEREAS, Contractor has represented to RACER that Contractor has the requisite capacity, expertise, and skill to perform the Work in conformance with RACER's requirements and expectations;

THEREFORE, in consideration of the terms and conditions herein contained, and for other good and valuable consideration, the Parties agree as follows:

1. **Agreement.** This Agreement consists of the terms and conditions contained herein and executed by the Parties. Any reference to this Agreement shall be a reference to these terms and conditions, and the terms and conditions contained in the attached Exhibit A ("**Exhibit**"). The Exhibit is incorporated herein by reference. These terms and conditions will govern each Party's rights and obligations relating to Contractor's performance of the Work. In the event of any conflict between the terms and conditions of this Agreement and the Exhibit hereto, the terms and conditions of this Agreement shall control.
2. **Modifications.** This Agreement may only be amended by a writing signed by both Parties. RACER may order changes, modifications, and deletions to the Work by issuance of a written change order ("**Change Order**"). Contractor shall make no change to any Work without the prior receipt of a written Change Order approved by RACER, and Contractor shall not be entitled to compensation for any extra work performed without prior receipt of a written change order approved by RACER.
3. **Payment.**
   a. **Value.** The monetary value of the Work to be performed under this Agreement is _____ Dollars ($_____) (the "**Bid Amount**"), which shall be the basis of payment by RACER to Contractor.
   b. **Term.** This Agreement shall be deemed effective on the date on which it is signed by the latter of the two Parties (the "**Effective Date**"). The primary purpose of this Agreement is for Contractor to perform all of the work required in the Project Manual by December 12, 2014.

   c. **Records.** Contractor shall provide time records, receipts, and similar documentation to RACER upon request for any expense reimbursement. Contractor shall maintain full and detailed accounting records needed for the proper financial management of this Agreement for not less than three (3) years following completion of any Work.
   d. **Audit.** Upon reasonable notice, RACER shall be allowed to audit Contractor's records, books, correspondence, instructions, schedules, drawings, receipts, vouchers, and other data relating to this Agreement. In the event of a payment dispute, Contractor shall continue to perform the Work in accordance with this Agreement.
   e. **W-9 Tax Forms.** Contractor shall email to RACER's accounts payable manager (AP@racertrust.org) a completed, signed IRS W-9 form within two (2) days of the Effective Date of this Agreement.
4. **Materials and Inspections.**
   a. Title to any materials, fixtures, and other facilities (collectively "Materials") within the Work Areas to be removed under this Agreement shall pass free and clear of any and all liens and encumbrances of any kind to Contractor on the Effective Date of this Agreement. RACER makes no representations or warranties as to the physical state of the Facility or the Work Areas or the condition of any Materials. Contractor acknowledges that it shall take title to the Materials "as is" and "where is".
   b. Contractor represents and warrants to RACER that it has inspected the Materials, the Work Areas, and the Facility, and expressly assumes all such dangers, risks, and hazards associated with the use or removal of the Materials and the use of the Work Areas and Facility. Contractor acknowledges that the Materials and Work Areas may contain PCBs, lead paint, asbestos, mercury switches, fluorescent light tubes and ballasts, and other Waste Materials (as defined below) containing or that may contain Hazardous Substances (as defined below). Contractor acknowledges that the analytical data regarding Waste Materials and Hazardous Substances that may be present at the Facility have been supplied by RACER for information purposes only. Contractor assumes full and sole responsibility for its own inspections and assessments of the conditions of the Work Area and materials and sole responsibility to address all conditions encountered except as expressly addressed otherwise in this Agreement.
5. **Use of Property.**
   a. **Access.** RACER hereby grants to Contractor and its agents, employees, contractors, subcontractors, personnel, and other representatives access to the Facility solely for the purpose of performing the Work until the Termination Date, unless otherwise revoked, terminated, or extended by RACER in its sole discretion. Contractor's access to the Facility shall be from Monday through Friday, 7:00 am to 5:00 pm, or as directed by RACER in its sole discretion. RACER may agree to extend the hours/days of operation if Contractor pays in advance any costs incurred by RACER in extending such hours of operation. Contractor shall confine operations at the Facility to areas permitted by law, ordinances, permits, the Project Manual and directions of RACER and shall not unreasonably encumber the Facility with any materials or equipment. Contractor may utilize only such access routes as may be designated by RACER from time to time.
   b. **Use of RACER Tools and Equipment.** Contractor shall provide and pay for all labor,

materials, equipment, tools, construction equipment and machinery, insurance, water, heat, utilities, transportation, temporary Work Area facilities, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent. If Contractor makes any use of any RACER-owned equipment Contractor shall do strictly at Contractor's sole risk and expense. RACER makes no representations regarding its tools and equipment and expressly disclaims any implied warranty of merchantability or implied warranty of fitness and assumes no responsibility for the condition of any equipment used by Contractor to perform the Work.

c. **Utilities.** Contractor shall be responsible for supplying, at its sole cost, any utility services required to perform the Work. Contractor shall safeguard the Facility's utility and related infrastructure not required to be removed under the Project Manual to ensure that no serviceable utility features of the Facility are damaged in any way. Any damage caused by Contractor shall be repaired immediately at Contractor's sole expense.

d. **Inspections.** RACER and all regulatory agencies with jurisdiction shall at all times have access to the Work whenever it is in preparation or progress. RACER reserves the right to inspect any of the Work being performed at any time. RACER shall be entitled to photograph Work in progress for purposes of RACER's records. Any inspection performed or failed to be performed by RACER shall not constitute a waiver of any of Contractor's obligations under this Agreement or be construed as an approval or acceptance of the Work or any part of the Work.

6. **Performance of Work.**

a. **Qualifications**. Contractor represents and warrants that it and any of its subcontractors, has the qualifications and ability to perform the Work. Contractor shall provide competent supervision, coordination, management and related services as required for such Work. Contractor shall be solely responsible to RACER for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

b. **Non-Interference.** Contractor acknowledges that it may be performing the Work at the same time other contractors are working at the Facility. Contractor shall use best efforts not to interfere with the work of other contractors on the Facility. In the event of an emergency or upon RACER's request, Contractor and its subcontractors shall cease Work at any particular location and/or conduct Work in other locations to enable others to carry on their work without delay. RACER shall use commercially reasonable efforts to direct its other contractors or bidders working at the Facility not to interfere with Contractor's performance of the Work.

c. **Condition of Facility.** Contractor shall be fully responsible for keeping the Work Areas, buildings and adjoining premises free at all times from accumulations of all waste material, rubbish, debris, broken concrete, etc., caused by Contractor's employees and its subcontractors' employees and the work of each. As work is completed in an area, Contractor shall remove all tools, scaffolding and surplus materials and leave the area broom-clean. In addition, at the completion of the Work, it shall: (i) remove all Waste Materials and rubbish from and about the Work Area(s), as well as all tools, construction equipment, machinery, surplus materials and temporary installations and facilities; and (ii) shall clean and protect all finished surfaces and areas in accordance with this

Agreement.

7. **Payment and Performance Bond; Escrow Agreement.** Before any work may begin on the Facility Contractor shall obtain a payment and performance bond ("**Bond**") (or Letter of Credit if terms and conditions are acceptable to RACER) in the amount of _____Dollars ($_____), to secure Contractor's obligations hereunder in the forms attached hereto as Exhibit A, which form is hereby approved by RACER. RACER may draw on either or both the Bond (Letter of Credit) to address or recover RACER costs for any breach of this Agreement or to perform any obligation of Contractor under this Agreement including payment to subcontractors, materialmen or other suppliers which Contractor has failed to perform.

8. **Relationship.** Contractor's and its employees' and subcontractors' relationship to RACER is that of an independent contractor, and not as employees of RACER. Contractor shall report to RACER's designated Site Manager. Subcontractors shall report to Contractor. RACER may prohibit any Contractor employee, subcontractor, subcontractor employee, or other agent from gaining access to any RACER facility or to any RACER Confidential Information at any time and for any reason, or no reason at all.

9. **Employees/Subcontractors of Contractor**. Contractor represents and warrants that Contractor is liable and responsible for the performance of the Work by its employees, subcontractors, and agents including, without limitation, all actions, inactions, errors, and omissions made by such individuals or entities.

a. Contractor covenants that its subcontractors, prior to performance of any of the Work, shall agree in writing to be bound by applicable terms of this Agreement, including: (i) maintaining insurance policies and limits in accordance with the provisions of Section 11.d. (which may be satisfied by Contractor's insurance policies if such policies extend to the actions of the subcontractors but without any requirement to increase the total dollar amounts of coverage of Contractor's insurance policies); and (ii) indemnifying RACER pursuant to the provisions of Section 16.f.

b. Contractor shall furnish a detailed report to RACER of observed discrepancies, deficiencies and omissions in the Work performed by any subcontractor and the actions being taken to correct them. Unless RACER directs Contractor to correct such discrepancies, deficiencies or omissions within forty-eight (48) hours, Contractor shall correct non-conforming or defective work within seven (7) days of any report issued (including reports issued by RACER) unless such non-conforming or defective work cannot be corrected within such time, in which case Contractor shall commence corrective action and furnish RACER its written plan for correcting such non-conforming or defective work within such seven (7) day period and shall report its progress with respect thereto whenever requested by RACER.

c. Contractor hereby assigns to RACER, as security for Contractor's performance hereunder, all subcontracts, purchase orders and all other contracts and agreements entered into in connection with the Work, and appoints RACER its attorney to enforce said contracts according to their terms. Such assignment shall be operative only upon notice by RACER in the event of default by, or termination of, Contractor under this Contract. All subcontracts shall provide that the subcontractor consents to the assignment of the subcontract to RACER pursuant to this Section and agrees, in the event

such assignment becomes effective, to recognize RACER as the successor to Contractor and to complete the Work under the subcontract.

10. Designation of Representatives; Reporting; Notices.

a. **Designation of Representatives.** RACER and Contractor designate as their respective individual representatives under this Agreement:

For RACER:
Sam Solomon
RACER Trust Site Manager
500 Woodward Avenue, Suite 1510
Detroit, MI 48226
Cell: 898-245-1716
Email: ssolomon@racertrust.org

David Favero
Deputy Michigan Cleanup Manager
RACER Trust
500 Woodward Avenue, Suite 1510
Detroit, MI 48226
Tel: 313-670-6226
Email: dfavero@racertrust.org

For Contractor:
_____

_____

b. **Reporting.** Contractor shall keep RACER fully advised and informed at all times with respect to the progress of the Work. Contractor shall: (i) provide verbal reports to RACER as requested that specify the Work accomplished by Contractor and any safety issues since the preceding report; and (ii) notify RACER promptly (and in every event within twenty-four (24) hours) in writing of all injuries, accidents, claims, (including asserted liens and other encumbrances), and losses arising out of or in connection with the Work.

c. **Notices.** Except where this Agreement provides otherwise, notices, requests, and other communications required herein shall be in writing and shall be deemed to have been duly given on the date received by the other Parties.

11. Insurance.

a. **Coverage Requirements.** Contractor shall maintain insurance coverage in conformance with the following requirements:

i. **Workers' Compensation**. Contractor shall comply with statutory and regulatory insurance requirements for the state(s) in which this Agreement is to be performed (or with applicable self-insurance requirements).

ii. **Employer's Liability**. Contractor shall maintain aggregate coverage of at least $1,000,000 per accident and aggregate coverage for disease of at least $1,000,000.

iii. **Commercial General Liability.** Contractor shall maintain occurrence-based coverage, including contractual liability, of at least $2,000,000 per occurrence (combined single limit), $5,000,000 general annual aggregate and $2,000,000 products/completed operations aggregate. The coverage must provide for separation of insureds and must not include a cross-suits exclusion.

iv. **Automobile Liability.** Contractor shall maintain at least $1,000,000 in coverage (combined single limit) for bodily injury per person, $1,000,000 per accident, and $1,000,000 for property damage.

v. **Pollution Liability and/or Professional Liability.** Contractor shall maintain pollution liability and/or professional liability coverage, including contractual liability coverage for negligent acts and omissions, of at least $1,000,000 per occurrence, $1,000,000 annual aggregate, and with a deductible no higher than $250,000.

vi. **Umbrella or Excess Liability.** Contractor shall maintain a form of umbrella liability that sits excess and provides annual aggregate coverage up to at least $10,000,000 for each occurrence.

b. **General Terms of Coverage.** The amounts of Contractor's insurance, the forms of its policies, the companies issuing such policies, and all matters with respect to the adequacy of Contractor's insurance protection shall be subject to the prior and continuing approval of RACER. Contractor shall present certificates of insurance that name "Revitalizing Auto Communities Environmental Response Trust", "RACER Properties LLC", and ENG. Inc. as additional insureds and that waive rights of subrogation for all policies except worker's compensation. Insurance provided by Contractor's policies shall be primary (and thus called upon prior) to any of RACER's or ENG.'s insurance policies, and any insurance carried by RACER and ENG. will be excess and non-contributory. Contractor's insurers shall have no recourse against RACER or ENG. for payment of any premiums or for assessments under any mutual form of policy. Each insurance policy described above shall be kept in force for a period of at least two (2) years after the termination or expiration of this Agreement.

c. **Insurer Ratings**. All required coverage shall be with duly licensed insurers having ratings equal to or better than A.M. Best's A-VII, Standard & Poor's AA, or Moody's Aa2.

d. **Subcontractor Coverage.** Contractor shall demonstrate that its subcontractors have sufficient insurance coverage either under Contractor's own policies or under specific subcontractor policies.

12. Waste Materials.

a. **Hazardous Substances.** "Hazardous Substance" means all materials, substances, or wastes defined, designated, regulated, or classified as hazardous, toxic, or radioactive, under any federal or state environmental law, whether by type or by quantity, and shall include petroleum or any derivative or by-product thereof and asbestos-containing materials. Contractor shall not, at any time, bring or permit any agents, employees, contractors, subcontractors, personnel or other representatives to bring any Hazardous Substance onto the Facility for any purpose, except as specifically identified by Contractor and approved in writing in advance by RACER.

b. **Treatment, Storage, and Disposal of Waste Materials.** "**Waste Materials**" means any "solid waste" under Section 1004(27) of RCRA, 42 U.S.C. § 6903(27) that is generated in the performance of the Work. Contractor shall assure that all Waste Materials generated, transported to or from, moved within, or used or stored upon the Facility in connection with Contractor's performance of the Work are managed, transported, moved, used, stored, or disposed of in accordance with applicable laws and regulations and under valid permits, and in accordance with the Project Manual Contractor shall assure that all Waste Materials containing Hazardous Substances are disposed of in accordance with applicable laws and regulations and only at facilities that possess and are in compliance with all applicable licenses and permits. Contractor shall prepare and provide to RACER such profiles and manifests of Waste Materials containing Hazardous Substances as are required by any treatment, storage, and disposal facility. Contractor shall provide any notices concerning Waste Materials to any governmental agency as required by such agencies. Any costs of cleanup, transportation, treatment, storage, or disposal of Waste Materials shall be the sole responsibility and expense of Contractor. In the event that in its performance of the Work, Contractor causes any hazardous conditions (including damage to any asbestos containing materials or equipment) or encounters any asbestos material that must be managed to comply with Occupational Safety and Health Administration ("**OSHA**") requirements, all costs expenses and responsibilities to address such conditions shall be Contractor's sole obligation.

c. **Title to Waste Materials.** Title, risk of loss, and all other incidents of ownership to Waste Materials generated in the performance of the Work shall remain with RACER upon such materials being transported off the Facility by an approved transporter, and until the Waste Material has been disposed of at an authorized facility. However, Contractor shall indemnify and hold RACER harmless from any loss or increased cost of cleanup, remediation, or disposal which is caused by Contractor's actions, negligence, or willful misconduct in the performance of the Work, and shall require each approved transporter to provide the insurance as required by Section 11, above, and to sign an indemnification agreement in favor of RACER covering the transporter's willful or negligent acts or omissions.

d. **Notice of Releases.** Contractor shall promptly notify RACER in writing of any release by Contractor or by any of its employees, subcontractors, or agents, or subcontractors' employees or agents, of Waste Materials containing Hazardous Substances relating to the Work or otherwise on or at the Facility, specifying the nature and quantity of the release, the location of the release, and the measures taken to contain and cleanup the release and to ensure that future releases do not occur. Contractor shall notify RACER's Site Manager in the event any federal, state, or local regulatory agency inspector requests to inspect the job site. A RACER representative will be present during all inspections.

e. **Testing.** RACER may conduct any testing, sampling, and analyses of Waste Materials it deems necessary. Such testing shall be at Contractor's expense if Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents have caused Waste Materials containing Hazardous Substances to be released on the Facility.

f. **Construction and Demolition Materials.** Any non-reusable construction and demolition materials generated in the performance of the Work shall be considered Waste Materials.

13. Health and Safety Program. Safety is of paramount importance in the performance of the Work, and Contractor shall be held to a high level of safety and health responsibility and accountability. Contractor shall be solely responsible to provide all required safety materials and equipment necessary to perform the Work safely and to maintain a safe and neat environment.

a. **Scope.** Contractor shall be solely responsible for the preparation, submission, implementation, supervision, and enforcement of a detailed written site- and Work-specific Health and Safety Plan encompassing all aspects of the Work, including those aspects performed by any subcontractors. Contractor shall at a minimum, address in its Health and Safety Plan the requirements of 29 CFR 1910 and: (i) a detailed review of all aspects of the Work; (ii) the identity of all tasks that may present a health or safety hazard, including the measures that Contractor will use to control such hazards; and (iii) a strategy for unified coordinated implementation with subcontractors. Contractor shall submit a copy of its Health and Safety Plan to RACER before any Work begins and with sufficient time to allow for RACER's review.

b. **Modification; Oversight.** Contractor shall update, supplement, or revise its Health and Safety Plan and Task-Specific Plans whenever changes in the nature or scope of the Work or in conditions at the Facility alter, affect, or impact the manner in which Work activities may safely be performed, including additions to the Work and changes in the method(s) used to perform the Work. Contractor will monitor each Task for which a hazard is identified in the Health and Safety Plan on a daily basis and conduct a general health and safety inspection of the Facility each week.

c. **Implementation.** Contractor shall supervise, maintain, monitor, and enforce its Health and Safety Plan, and in so doing shall review and coordinate all safety activities of subcontractors to ensure a unified coordinated implementation. Contractor will also coordinate its safety activities with RACER and RACER's other contractors at the Facility. Contractor shall be responsible for providing all health and safety training to its employees as required for the performance of the Work, and Contractor shall require all subcontractors to provide required training for their respective employees.

14. Additional Requirements.

a. Contractor shall submit to RACER a site-specific Construction Safety Plan, a Fire Protection Plan, a Dust Control Program, a Storm Water Management Plan, a Noise Control Plan and a Soil Erosion & Sediment Plan within one week (1) after the Effective Date of this Agreement. These plans will be reviewed and approved before any Work is started and prior to any documents being submitted to state or local agencies, if any such submissions are required. RACER may accept or reject such plans at RACER's sole discretion; provided, however, that if RACER rejects any such plan it shall specify its objections to the plan as submitted and Contractor will use its best efforts to modify the plan to address RACER's objections thereto as soon as reasonably practicable and to resubmit the plan to RACER, in which event the Termination Date shall be extended for such reasonable time as may elapse between the date of such rejection and the subsequent approval of such revised plan by RACER. Contractor shall be responsible for all costs associated with the preparation and revision of such plan(s), regardless of the number

thereof, implementation of such plan and strict adherence to the terms of the RACER accepted plans.

b. **Fire Control.** Fire protection is the sole responsibility of Contractor. Contractor shall be responsible for and shall not allow at any time, any uncontrolled ignition, fire or other combustion in, about, under or adjoining or within the Work Area, regardless of how or by whom caused. Contractor will maintain fire controls in accordance with the Project Manual.

c. **Dust Control.** Contractor shall maintain all excavations, stockpiles, haul roads, permanent access roads, waste areas, borrow areas, concrete crushing areas, and all other work areas within or without the Work Area free from dust which would cause a hazard or nuisance to others or contaminate surface water, in accordance with the Project Manual.

15. Termination for Breach. RACER may, by written notice to Contractor, terminate this Agreement: (a) if Contractor breaches this Agreement in any material respect and fails to cure such breach within thirty (30) days after receiving written notice from RACER that specifies the nature of such breach; or (b) if Contractor shall become insolvent, or if insolvency, receivership, or bankruptcy proceedings shall be commenced by or against Contractor which are not withdrawn within thirty (30) days of filing; or (c) if Contractor shall make an assignment for the benefit of creditors; or (d) if Contractor shall fail to complete the Work by the Drop Dead Date. Upon any such termination, RACER and Contractor shall have the following rights, obligations, and duties:

i. **Withdrawal from Facility.** Contractor shall, if requested by RACER in writing, withdraw from the Facility and assign to RACER such of Contractor's subcontracts as RACER may request and remove such materials, equipment, tools, and instruments used by Contractor in performance of the Work as RACER may direct.

ii. **Forfeiture of Equipment.** Any Equipment remaining on the Facility after such termination shall be considered abandoned and title to the Equipment shall revert to RACER.

iii. **Forfeiture of Bond.** RACER shall be entitled to draw on the Bond to the extent permitted under the terms of the Bond.

16. Warranties and Liability.

a. **Authority**. Each Party represents and warrants that it has full power and authority to enter into this Agreement and to perform its obligations herein. Moreover, Contractor warrants and represents that it has not entered into, and shall not enter into any agreement either written or oral in conflict with its obligations under this Agreement.

b. **Permits; Licenses; Demurrage Charges; Taxes; Record of Expenses.** Contractor represents and warrants that Contractor shall be responsible:

i. for providing, maintaining, and complying with, at its expense and in its name, any and all permits, licenses, and authorizations usual or necessary for performing required for Contractor's business, equipment, and operations relating to its performance of the Work;

ii. for any demurrage or storage charges;

iii. for filing on a timely basis all tax returns and payments required to be filed or made to any federal, state, or local tax authority with respect to Contractor's performance of the Work, including any taxes, fees, or other charges for the disposal and/or treatment of Waste Materials; and

iv. for maintaining its own records of expenses incurred in performance of the Work for a period of three (3) years after the date of completion or expiration of this Agreement.

c. **Warranty.** Contractor warrants its performance of the Work will be: (i) free of any claims by third parties; (ii) in strict accordance with the specifications, samples, drawings, or other descriptions approved by RACER; and (iii) free from any and all defects, latent or patent;. Contractor further warrants that: (v) it has good title to the materials it provides in performance of the Work and that all materials will be merchantable; and (vi) services it provides in performance of the Work will be performed in accordance with the standards of care and diligence normally practiced by persons performing similar services and in the best workmanlike manner. The above representations, warranties, certifications, and covenants will be in effect for a period of eighteen (18) months from the date of receipt of conforming materials by RACER or twelve (12) months from the date of final acceptance of services by RACER, whichever is longer; provided however, that where a latent defect is discovered, the above representations, warranties, certifications, and covenants will be in effect for a period of twelve (12) months from the earlier of the date of discovery by RACER of a latent defect in Contractor's services or materials or the date such latent defect should reasonably have been discovered by RACER with the exercise of reasonable diligence.

d. **Remedies for Nonconformance:** If any Work fails to conform to the above representations, warranties, certifications and covenants, then Contractor, at RACER's option, will: (i) re-perform all Work necessary to correct any such nonconformity; or (ii) refund the purchase price of the nonconforming services or materials and any related costs incurred by RACER. Any replacement services or materials also will be subject to the above representations, warranties, certifications, covenants, and warranty periods. If Contractor does not replace, repair, or re-perform, as applicable, within a reasonable time after notice of such nonconformance, RACER may do so at Contractor's expense and draw on the Escrow or Bond as appropriate.

e. **RACER's Right to Stop Work.** If RACER reasonably believes that the Work is being performed in a manner that presents an imminent danger of death or serious injury or violation of law, or if Contractor fails to comply with the safety requirements set forth in Sections 13 and 14, above, or fails to correct defective Work, or fails to carry out the Work or to supply labor, materials and equipment in accordance with this Agreement, RACER may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of RACER to stop the Work shall not give rise to any duty on the part of RACER to exercise this right for the benefit of Contractor or any other person or entity. Should RACER elect to order Contractor to stop the Work, Contractor shall be responsible for whatever measures are necessary to make up for any delays and to maintain the schedule for completion of the Work once the cause for such order has been eliminated and for all costs and expenses associated with such measures.

f. **Indemnification.** Contractor shall defend, indemnify, and hold harmless RACER, its Administrative Trustee, officers, employees, and agents, their respective successors and assigns, against any and all liability for damages, costs, losses, penalties, and expenses, including reasonable attorneys' fees, resulting from any claim asserted by a third party for: (i) wrongful death; (ii) release of Hazardous Substances or environmental damage or contamination caused by the act or omission of Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents; (iii) bodily injury caused by the action or omission of Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents; (iv) infringement or violation of intellectual property rights caused by the act or omission of Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents; (v) casualty caused by the act or omission of Contractor's employees, subcontractors, or agents, or subcontractors' employees or agents; (vi) breach of this Agreement by Contractor; (vii) any violation or alleged violation of any law or regulation caused by the act or omission of Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents; (viii) loss or theft by or caused by the act or omission of Contractor, its employees, subcontractors, or agents, or subcontractors' employees or agents; (ix) any fines or penalties assessed against RACER arising out of or related to the Work performed by Contractor; and/or (x) property damage, to the extent caused by the willful or negligent acts or omissions of Contractor or its shareholders, officers, directors, employees, subcontractors, agents, or other representatives. If any action or proceeding is brought against RACER alleging any facts or circumstances for which Contractor is to provide indemnification and/or defense, Contractor shall, upon notice from RACER, defend the same at its expense by legal counsel reasonably approved in writing by RACER. The indemnity provided by Contractor in favor of RACER in this Agreement shall not require payment as a condition precedent, and a finding of liability or an obligation to indemnify shall not be a condition precedent to Contractor's duty to defend.

g. **Liens.** Contractor shall discharge at once all liens that may be filed by or on its behalf or on behalf of any of its subcontractors in connection with this Agreement and shall defend and hold harmless RACER and the Facility upon which the Work is performed. Contractor must submit a sworn statement listing all subcontractors, material men, and suppliers and a complete set of Unconditional Full Lien Waivers from all subcontractors, material men and suppliers as well as Contractor's full Unconditional Lien Waiver as a condition of final release of the Bond and Cash Escrow Account.

h. **Disclaimer of Consequential Damages.** EXCEPT FOR ANY BREACH OF WARRANTY, BREACH OF CONFIDENTIALITY, OR CONTRACTOR'S INDEMNIFICATION OBLIGATIONS TO RACER HEREUNDER AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, RACER SHALL NOT BE LIABLE TO CONTRACTOR, AND CONTRACTOR SHALL NOT BE LIABLE TO RACER, FOR ANY CONSEQUENTIAL, PUNITIVE, OR SPECIAL DAMAGES, WHETHER BASED UPON A CLAIM OR ACTION OF TORT, CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY, BREACH OF STATUTORY DUTY, OR ANY OTHER LEGAL THEORY OR CAUSE OF ACTION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

i. **Limitation of Liability**. EXCEPT FOR ANY BREACH OF CONFIDENTIALITY HEREUNDER, RACER'S TOTAL LIABILITY FOR ANY AND ALL CLAIMS ARISING FROM OR RELATED TO THIS AGREEMENT WILL IN NO EVENT EXCEED THE TOTAL FEES DUE FROM OR PAID BY RACER TO CONTRACTOR UNDER THIS AGREEMENT.

j. **Damages.** Contractor shall be completely and solely responsible and liable for any and all property damages, bodily injuries, financial losses and interruptions of service that result from or are attributable to its activities and which affect existing roadways, buildings, structures, water lines, gas lines, electric lines, drain lines, sanitary and storm sewer lines, monitoring wells, and all appurtenances and service facilities connected thereto. Restoration of all such damaged or disturbed facilities shall be accomplished immediately after incurrence thereto with materials and by methods approved by RACER.

k. **Compliance with Laws.** Contractor represents and warrants that its performance under this Agreement does not and shall not violate any law or regulation or any contracts with third parties. Contractor shall: (i) at all times be in compliance in all material respects with all applicable federal, state, and local laws and regulations; and (ii) comply with all requirements, orders, and directives of governmental agencies, including those issued pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. §§ 9601 et seq.), the Resource Conservation and Recovery Act (42 U.S.C §§ 6901 et seq.), all applicable fire and municipal building codes, and any amendments thereto an any applicable guidelines or regulations promulgated thereunder. RACER represents and warrants that its performance under this Agreement does not and shall not violate any law or regulation or any contracts with third parties.

l. **Cost of Compliance with Environmental Laws.** RACER shall have no responsibility for: (i) costs of environmental remediation caused by; or (ii) the costs of complying with environmental laws or regulations that are triggered because of, the negligent acts and omissions or intentional or willful misconduct of Contractor or any of Contractor's employees, subcontractors, or agents, including transporters and suppliers. Contractor represents and warrants that it will be responsible for and pay any civil penalties, fines, or damages issued by any governmental agency for violations by Contractor, or any of Contractor's employees, subcontractors, or agents, of any environmental law or regulation.

17. Dispute Resolution.

a. **Informal Dispute Resolution; Notice of Dispute; Resolution by Arbitrator.** In the event of a dispute concerning an invoice or any other matter governed by this Agreement, the Parties shall negotiate in good faith in an effort to resolve such dispute. If a dispute remains following a week of such negotiations (or if after a week of such negotiations, in the opinion of either Party, the other Party has not engaged in good faith negotiations), either Party may submit the dispute for resolution by a mutually-agreed upon third party arbitrator ("Arbitrator"). The Party submitting the dispute for resolution shall notify the other Party of such submittal as per Section 10, above.

b. **Designation of Arbitrator.** If, after the week of negotiations referred to above in Section 17.a., the Parties are willing and able to designate an Arbitrator mutually

acceptable to them, then that person shall serve as the Arbitrator. But if after a week of negotiations the Parties are unable or unwilling to designate a mutually acceptable Arbitrator, each Party shall (within forty-eight (48) hours after the close of the initial week of negotiations) nominate their preferred Arbitrator and notify the other Party of such nomination as per Section 10, above. Within forty-eight (48) hours after the mutual notification by the Parties of their Arbitrator-nominees, the Arbitrator-nominees shall confer and designate the Arbitrator (who could be one of Arbitrator-nominees or a third person).

c. **Arbitrator's Decision.** The Arbitrator's decision shall be quasi-binding in that either Party may appeal it to a court of competent jurisdiction for review to determine whether the decision was arbitrary, capricious, or not in compliance with law. Absent such a finding, the decision of the Arbitrator shall stand. In the event of such a finding, however, the court shall review the dispute "de novo." The Arbitrator will issue his or her decision, in writing, within two (2) weeks of submission of notice of the dispute.

d. **Statements of Dispute.** To assist in the dispute resolution, within one (1) week of notice of the dispute, each Party shall submit to the Arbitrator and to the other Party a short and plain statement regarding the dispute together with all documents necessary to the resolution. Within one (1) week thereafter, each Party shall submit to the Arbitrator and to the other Party a short and plain statement (and supporting documents) responding to the other Party's initial submission. Each Party shall also provide the Arbitrator with such additional information as may be requested by the Arbitrator.

e. **Costs.** The Parties shall initially split the costs of the Arbitrator's services, but the prevailing Party shall be entitled to reimbursement from the other Party of the prevailing Party's share of such costs. In the event of any appeal to a court, the prevailing Party shall be entitled to recover, in addition to all other amounts awarded, its costs (including attorneys' fees) incurred in such appeal.

18. Confidentiality and Nondisclosure. Each Party will protect any Confidential Information of the other Party from disclosure using at least a reasonable degree of care. Each Party will use the Confidential Information of the other Party solely in the performance of the Work. "**Confidential Information**" of a Party means information and material disclosed by one Party ("**Disclosing Party**") to the other Party ("**Recipient**"): (i) in written, graphic, electronic, or any other tangible form that should reasonably be considered confidential or proprietary in nature; and (ii) in oral or other intangible form that is identified as confidential at the time of the initial disclosure in oral or other intangible form and documented in a writing that is so marked and transmitted to the recipient within thirty (30) days after such initial disclosure. Confidential Information includes, without limitation, information regarding the disposition of any RACER property and other non-public information provided by RACER or otherwise received by Contractor that is associated with RACER and its affiliates, Administrative Trustee, officers, employees, and agents. The Parties' obligation to protect against disclosure of Confidential Information shall survive the expiration or termination of this Agreement.

19. General.

a. **Time is of the Essence.** Time is of the essence in this Agreement. The Parties agree to use their good faith efforts to cooperate with each other and, where applicable, with subcontractors to keep the Work on schedule and refrain from actions that cause delay.

b. **Non-Exclusive Relationship**. The relationship created by this Agreement is non-exclusive. With respect to assets on or at the Facility other than the Equipment, RACER shall be free to acquire services similar to those of Contractor from alternative sources without obligation to Contractor.

c. **No Publicity**. Contractor may not use the name, logo, trademarks, service marks, or other proprietary identifying symbols of RACER in any press release, web page, advertising, signage, marketing materials, brochures, or other materials in any medium without RACER's prior written consent. Additionally, Contractor may not use the work product developed for and/or provided to RACER for any purpose without RACER's prior written consent. In particular, Contractor shall request advanced approval from RACER for the use of photographs of the Facility or of the Work in Contractor's promotional and marketing materials and/or identify RACER as a client in such materials. If RACER provides such approval, it shall do so via a photographic authorization agreement form to be provided by RACER, executed by the Parties, and incorporated into this Agreement by reference.

d. **Third Party Communications.** Contractor acknowledges that it is in the best interest of both parties that all public communications with respect to the award of this Contract shall initially be made by RACER and subsequently coordinated with RACER. Contractor agrees that no public statements will be made with respect to the award and performance of this Contract until so authorized by RACER.

e. **Records.** In the event RACER terminates this Agreement, Contractor will deliver all data and records pertaining to this Agreement to RACER within thirty (30) days of receipt of RACER's notification of termination.

f. **Survival**. The provisions set forth in Section 16 (Warranties & Liability), Section 18 (Confidentiality and Nondisclosure), and Section 19 (General) as well as any other provision that reasonably may be expected to survive, shall survive the expiration or termination of this Agreement.

g. **Assignment; Potential Conveyance of Property**. None of the Parties may assign, transfer, or delegate any of its rights or obligations under this Agreement (directly or indirectly, by assignment, contract, or operation of law) without the prior written consent of the other Parties; provided however, that RACER may assign, transfer, or delegate this Agreement to any affiliate of RACER Contractor hereby acknowledges that RACER may convey all or part of its right, title and interest in and to the Facility during the performance of the Work by Contractor, and that Contractor shall remain fully obligated to perform under the Agreement notwithstanding any such conveyance.

h. **Severability**. If any term of this Agreement is found to be unenforceable in any jurisdiction, then such term shall be enforced to the maximum extent permitted by law, rather than voided, and the remaining terms of this Agreement shall remain in full force and effect.

i. **Settlement Agreement**. Pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement") entered by the U.S. Bankruptcy Court for the Southern District of New York ("Bankruptcy Court") on March 29, 2011 (Case No. 09-50026 (REG)), RACER was created, RACER's Administrative Trustee was appointed, and RACER assumed the rights, title, and interest of Motors Liquidation Company in and to the Facility and Equipment, and the Bankruptcy Court retains jurisdiction over certain matters concerning RACER. Nothing in this Agreement shall limit the rights of RACER to comply with the terms of the Settlement Agreement. In the event of any conflict between the terms and conditions of this Agreement and the Settlement Agreement, the terms and conditions of the Settlement Agreement shall control. Notwithstanding the foregoing, RACER represents and warrants that it has the right and authority under the Settlement Agreement to enter into and perform its obligations hereunder and nothing in this Agreement is in conflict with the provisions of the Settlement Agreement, RACER acknowledges that this representation and warranty is a material inducement to Contractor to enter into this Agreement.

j. **Waiver of Jury Trial.** Each Party knowingly, voluntarily, and intentionally waives its right to a trial by jury to the extent permitted by law in any action or other legal proceeding arising out of or relating to this Agreement. This waiver applies to any action or other legal proceeding, whether sounding in contract, tort, or otherwise. Each Party acknowledges that it has received the advice of competent counsel with respect to this waiver.

k. **Governing Law; Service of Process; Venue.** This Agreement shall be governed by and interpreted under the laws of the State of New York and under the United States Bankruptcy Code as applicable in instances where the Bankruptcy Court has exclusive jurisdiction. Any legal suit, action, or proceeding arising out of or based upon this Agreement may be instituted in courts of the State of Michigan, except to the extent that the Bankruptcy Court has exclusive jurisdiction over claims brought under Paragraph 102 of the Settlement Agreement. Service of process, summons, notice, or other document sent to the addresses in Section 10, above is effective service for any suit, action, or other proceeding brought in courts of the State of Michigan or in the Bankruptcy Court unless otherwise provided by state court, Bankruptcy Court, or local court rules.

l. **Attorneys' Fees.** In any legal suit, action, or proceeding between the Parties to enforce any of the terms of this Agreement, the prevailing Party shall be entitled to recover expenses including reasonable attorneys' fees.

m. **Waiver.** The failure by RACER to exercise or enforce any of the terms or conditions hereof will not constitute or be deemed a waiver of its rights hereunder to enforce each and every other term contained herein. The failure by RACER to insist upon strict performance of any of the terms and conditions herein will not be deemed a waiver of any subsequent default in the terms or conditions herein.

n. **Rights and Remedies Cumulative.** All rights and remedies of RACER under this Agreement are cumulative.

o. **Headings.** The headings or other subdivisions in this Agreement are intended solely for convenience or reference and shall be given no effect in the construction or interpretation of this Agreement.

p. **Counterparts.** Original signatures transmitted and received via facsimile or other electronic transmission of a scanned document, (e.g., pdf or similar format) are true and valid signatures for all purposes hereunder and shall bind the Parties to the same extent as that of an original signature. Any such facsimile or electronic mail transmission shall constitute the final agreement of the Parties and conclusive proof of such agreement. This Agreement may be executed in multiple counterparts, each of which will be deemed an original, but all of which together shall constitute one and the same instrument.

q. **Entire Agreement**. This Agreement and all Exhibits issued hereunder shall constitute the complete, final, and exclusive statement of the terms of the agreement between RACER and Contractor regarding the subject matter hereof, and shall supersede all prior or contemporaneous representations, understandings, and communications relating thereto. The terms and conditions of this Agreement shall not be varied, supplemented, waived, qualified, modified, or interpreted by any prior or subsequent course of dealing between the Parties, failure to enforce or delay in enforcing any rights hereunder, or by any usage of trade or manner other than by a fully-executed amendment to the Agreement.

IN WITNESS WHEREOF, RACER and Contractor have caused this Agreement to be executed and delivered by their respective duly authorized representatives as of the Effective Date.

RACER: **Revitalizing Auto Communities Environment Response Trust**	**CONTRACTOR:**
By:_____	By:_____
Name:_____	Name:_____
Title:_____	Title:_____
Date:_____	Date:_____

EXHIBIT A
PAYMENT AND PERFORMANCE BOND

SECTION 00410

BID BOND

OWNER:

Bid Due Date:

Address:

Project:

City, State, Zip:

IN WITNESS WHEREOF, Surety and Bidder, intending to be legally bound hereby, subject to the following terms hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

Surety (Principal Place of Business):	Bidder:
Name of Surety*	Name of Bidder*
Street*	Street*
City, State, Zip*	City, State, Zip*
(Seal) Surety's Corporate Seal	(Seal) Bidder's Corporate Seal
By: Signature and Title	By: Signature and Title (Attach Power of Attorney)
Attest: Signature and Title	Attest: Signature and Title

*Typed or printed in ink.

Bond:

Bond Number:

Date (not later than Bid Due Date):

Penal Sum:

Note: (1) Above addresses are to be used for giving required notice.

(2) Any singular reference to Bidder, Surety, OWNER or other party shall be considered plural where applicable.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to OWNER upon default of Bidder the penal sum set forth on the face of this Bond.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents and Contract Documents.

3. This obligation shall be null and void if:

OWNER accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extensions thereof agreed to in writing by OWNER) the Agreement required by the Bidding Documents and any performance any payment bonds required by the Bidding Documents and Contract Documents, or

All Bids are rejected by OWNER, or

OWNER fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from OWNER, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of and any all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by OWNER and Bidder, provided that the time for issuing notice of award including extension shall not in the aggregate exceed 120 days from Bid Due Date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in paragraph 4 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the states in which the Project is located.

8. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to attach to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provision of said statue shall govern and the remainder of this Bond that is not conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer or proposal as applicable.

END OF SECTION

SECTION 00610

CONSTRUCTION PERFORMANCE BOND

Any singular reference to CONTRACTOR, Surety, OWNER or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Principal Place of Business):

OWNER (Name and Address):

CONSTRUCTION CONTRACT
Date:
Amount:
Description (Name and Location):

BOND
Date (Not earlier than Construction Contract Date):
Amount:
Modifications to this Bond Form:

CONTRACTOR AS PRINCIPAL		SURETY	
Company:	(Corp. Seal)	Company:	(Corp. Seal)
Signature:_____		Signature:_____	
Name and Title:		Name and Title:	

CONTRACTOR AS PRINCIPAL		SURETY	
Company:	(Corp. Seal)	Company:	(Corp. Seal)
Signature:_____		Signature:_____	
Name and Title:		Name and Title:	

1. The CONTRACTOR and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the OWNER for the performance of the Construction Contract, which is incorporated herein by reference.

2. If the CONTRACTOR performs the Construction Contract, the Surety and the CONTRACTOR shall have no obligation under this Bond, except to participate in conferences as provided in Subparagraph 3.1.

3. If there is no Owner Default, the Surety's obligation under this Bond shall arise after:

3.1 The OWNER has notified the CONTRACTOR and the Surety at its address described in Paragraph 10 below, that the OWNER is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the CONTRACTOR and the Surety to be held not later than fifteen days after receipt of such notice to discuss methods of performing the Construction Contract. If the OWNER, the CONTRACTOR and the Surety agree, the CONTRACTOR shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the OWNER's right, if any, subsequently to declare a Contractor Default; and

3.2 The OWNER has declared a Contractor Default and formally terminated the CONTRACTOR's right to complete the contract. Such Contractor Default shall not be declared earlier than twenty days after the CONTRACTOR and the Surety have received notice as provided in Subparagraph 3.1; and

3.3 The OWNER has agreed to pay the Balance of the Contract Price to the Surety in accordance with the terms of the Construction Contract or to a contractor selected to perform the Construction Contract in accordance with the terms of the contract with the OWNER.

4. When the OWNER has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

4.1 Arrange for the contractor, with consent of the OWNER, to perform and complete the Construction Contract; or

4.2 Undertake to perform and complete the Construction Contract itself, through its agents or through independent contractors; or

4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the OWNER the amount of damages as described in Paragraph 6 in excess of the Balance of the Contract Price incurred by the OWNER resulting from the CONTRACTOR's default; or

4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

1. After investigation, determine the amount for which it may be liable to the OWNER and, as soon as practicable after the amount is determined, tender payment therefor to the OWNER; or

2. Deny liability in whole or in part and notify the OWNER citing reasons therefor.

5. If the Surety does not proceed as provided in Paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond fifteen days after receipt of an additional written notice from the OWNER to the Surety demanding that the Surety perform its obligations under this Bond, and the OWNER shall be entitled to enforce any remedy available to the OWNER. If the Surety proceeds as provided in Subparagraph 4.4 and the OWNER refuses the payment tendered or the Surety had denied liability, in whole or in part, without further notice the OWNER shall be entitled to enforce any remedy available to the OWNER.

6. After the OWNER has terminated the CONTRACTOR's right to complete the Construction Contract, and if the Surety elects to act under Subparagraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the OWNER shall not be greater than those of the CONTRACTOR under the Construction Contract, and the responsibilities of the OWNER to the Surety shall not be greater than those of the OWNER under the Construction Contract. To the limit of the amount of this Bond, but subject to commitment by the OWNER of the Balance of the Contract Price to mitigation of costs and damages on the Construction Contract, the Surety is obligated without duplication for:

6.1 The responsibilities of the CONTRACTOR for correction of defective work and completion of the Construction Contract;

6.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 4, and

6.3 Liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the CONTRACTOR.

7. The Surety shall not be liable to the OWNER or others for obligations of the CONTRACTOR that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the OWNER or its heirs, executors, administrators, or successors.

8. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

9. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after Contractor Default or within two years after the CONTRACTOR ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

10. Notice to the Surety, the OWNER or the CONTRACTOR shall be mailed or delivered to the address shown on the signature page.

11. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

12. Definitions.

12.1 Balance of the Contract Price: The total amount payable by the OWNER to the CONTRACTOR under the Construction Contract after all proper adjustments have been made, including allowance to the CONTRACTOR of any amount received or to be received by the OWNER in settlement of insurance or other claims for damages to which the CONTRACTOR is entitled, reduced by all valid and proper payments made to or on behalf of the CONTRACTOR under the Construction Contract.

12.2 Construction Contract: The agreement between the OWNER and the CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

12.3 Contractor Default: Failure of the CONTRACTOR, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Construction Contract.

12.4 Owner Default: Failure of the OWNER, which has neither been remedied nor waived, to pay the CONTRACTOR as required by the Construction Contract or to perform and complete or comply with the other terms thereof.

(FOR INFORMATION ONLY - Name, Address and Telephone)
AGENT or BROKER:

OWNER's REPRESENTATIVE (Architect, Professional or other party):

END OF SECTION

SECTION 00620

CONSTRUCTION PAYMENT BOND

Any singular reference to CONTRACTOR, Surety, OWNER, or other party shall be considered plural where applicable.

CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

CONTRACT
Date:
Amount:
Description (Name and Location):

BOND
Bond Number:
Date (Not earlier than Contract Date):
Amount:
Modifications to this Bond Form:

Surety and CONTRACTOR, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Payment Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL
Company:

Signature: _____ (Seal)
Name and Title:

SURETY

_____ (Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

(Space is provided below for signatures of additional parties, if required.)

Attest: _____
Signature and Title

CONTRACTOR AS PRINCIPAL
Company:

Signature: _____ (Seal)
Name and Title:

SURETY

_____ (Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title
(Attach Power of Attorney)

Attest: _____
Signature and Title:

1. CONTRACTOR and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to OWNER to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to OWNER, this obligation shall be null and void if CONTRACTOR:
   2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and

   2.2. Defends, indemnifies, and holds harmless OWNER from all claims, demands, liens, or suits alleging non-payment by CONTRACTOR by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided OWNER has promptly notified CONTRACTOR and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to CONTRACTOR and Surety, and provided there is no Owner Default.

3. With respect to Claimants, this obligation shall be null and void if CONTRACTOR promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

   4.1. Claimants who are employed by or have a direct contract with CONTRACTOR have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to OWNER, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

   4.2. Claimants who do not have a direct contract with CONTRACTOR:

      1. Have furnished written notice to CONTRACTOR and sent a copy, or notice thereof, to OWNER, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and

      2. Have either received a rejection in whole or in part from CONTRACTOR, or not received within 30 days of furnishing the above notice any communication from CONTRACTOR by which CONTRACTOR had indicated the claim will be paid directly or indirectly; and

      3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to OWNER, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to CONTRACTOR.

5. If a notice by a Claimant required by Paragraph 4 is provided by OWNER to CONTRACTOR or to Surety, that is sufficient compliance.

6. When a Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at Surety's expense take the following actions:

   6.1. Send an answer to that Claimant, with a copy to OWNER, within 45 days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2. Pay or arrange for payment of any undisputed amounts.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by OWNER to CONTRACTOR under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By CONTRACTOR furnishing and OWNER accepting this Bond, they agree that all funds earned by CONTRACTOR in the performance of the Contract are dedicated to satisfy obligations of CONTRACTOR and Surety under this Bond, subject to OWNER's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to OWNER, Claimants, or others for obligations of CONTRACTOR that are unrelated to the Contract. OWNER shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to Surety, OWNER, or CONTRACTOR shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, OWNER, or CONTRACTOR, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, CONTRACTOR shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. Definitions.

15.1. Claimant: An individual or entity having a direct contract with CONTRACTOR, or with a first-tier subcontractor of CONTRACTOR, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of CONTRACTOR and CONTRACTOR's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

15.2. Contract: The agreement between OWNER and CONTRACTOR identified on the signature page, including all Contract Documents and changes thereto.

15.3. Owner Default: Failure of OWNER, which has neither been remedied nor waived, to pay CONTRACTOR as required by the Contract or to perform and complete or comply with the other terms thereof.

END OF SECTION

ATTACHMENT 3

WORK SPECIFICATIONS AND CONDITIONS

SECTION 00003

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END OF SECTION

SECTION 00900.2

CHANGE ORDER REQUEST

No. _____

DATE OF ISSUANCE _____

OWNER RACER Trust
CONTRACTOR
CONTRACTOR REPRESENTATIVE:
Project: Clarifier Removal and Site Restoration
ENGINEER Eng., Inc.

Description:

Reason for Change Order:

Attachments: (List documents supporting change)

REQUESTED CHANGE IN CONTRACT PRICE:
Original Contract Price $ _____
Net Increase (Decrease) from previous Change Orders No. _____ To: _____ $ _____
Contract Price prior to this Change Order: $ _____
Net increase (decrease) of this Change Order: $ _____
Contract Price with all approved Change Orders: $ _____

CHANGE IN CONTRACT TIMES:
Original Contract Times: Substantial Completion: _____ Ready for final payment _____ (days or dates)
Net change from previous Change Orders No.___ To No: ___ Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times prior to this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days or dates)
Net increase (decrease) this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for final payment: _____ (days or dates)

RECOMMENDED:

By: _____
ENGINEER (Authorized Signature)

Date: _____

END OF SECTION

APPLICATION FOR PAYMENT NO. _____

TO (OWNER): RACER Trust

FROM (CONTRACTOR): _____

Project: Clarifier Removal and Site Restoration

OWNER's PO No. _____ 00

For work accomplished through the date of: _____

1.	Original Contract Price:	
2.	Net change by Change Orders and Written Amendments (+ or -):	
3.	Current Contract Price (1 plus 2)	
4.	Total completed and stored to date:	
5.	Retainage (per Agreement):	
___% of completed Work:		
___% of stored material:		
Total Retainage: $		
6.	Total completed and stored to date less retainage (4 minus 5):	
7.	Less previous Applications for Payment:	
8.	DUE **THIS APPLICATION (6 MINUS 7):**	

Accompanying documentation: _____

The undersigned CONTRACTOR certifies that (1) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR's legitimate obligations incurred in connection with Work covered by prior Applications for Payment numbered 1 through ____ inclusive; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER indemnifying OWNER against any such Lien, security interest or encumbrance); and (3) all Work covered by this Application for payment is in accordance with the Contract Documents and not defective.

Dated _____ _____
CONTRACTOR

State of _____

County of _____

Subscribed and sworn to before me this _____ Day of _____

_____
Notary Public

My Commission expires: _____

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

Dated _____ _____
ENGINEER

By: _____

END OF SECTION

SECTION 00958

AFFIDAVIT AND CONSENT OF SURETY

STATE OF MICHIGAN

COUNTY OF _____.

The undersigned CONTRACTOR, being duly sworn, deposes and says that he entered into an Agreement (Contract) with RACER Trust, (OWNER) on the _____day of _____20___ for the performance of certain work generally described as follows: RACER Trust – Clarifier Removal and Site Restoration.

CONTRACTOR further says that the Work under the terms of the Contract has been completed and all sums due to Contractors, Subcontractors, Suppliers and laborers with whom CONTRACTOR has contracted for performance under the Contract have been paid in full.

Furthermore, in consideration of final payment under the Contract, CONTRACTOR hereby waives and releases any and all claims or rights which CONTRACTOR may have in connection with the Contract against OWNER or the premises upon which the Contract Work was performed and agrees to indemnify OWNER against any and all such claims or rights which may above asserted by Contractors, Subcontractors, Suppliers or laborers with whom CONTRACTOR has contracted for performance under the Contract.

DATE: _____, 20___ _____
Signed in the presence of: CONTRACTOR Signature

_____ _____
Name*

_____ _____
Title*

Subscribed and sworn to before me
this _____day of _____, 20___ Notary Public Signature_____

Notary Public Name:* _____

My commission expires: _____ County: _____

CONSENT OF SURETY

The undersigned as Surety on the Contract hereby consents to the making of final payment to the CONTRACTOR under the Contract.

Date_____, 20___ _____
Surety Company*

_____
Attorney-in-Fact (Signature)

_____
Name and Title*

*Typed or printed in ink.
(Attach copy of power of attorney certified to date of consent.)

END OF SECTION

SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS:

A. The Work includes, but is not limited to, the major items listed in the Work Specifications and Conditions.

1.02 TYPE OF CONTRACT:

A. Construct the Work of this Contract under a single unit lump sum.

1.03 GENERAL:

A. Imperative language:

1. These Specifications (Divisions 1 through 2) are written in the imperative and abbreviated form. This imperative language of the technical specifications is directed at CONTRACTOR unless specifically noted otherwise. Incomplete sentences shall be completed by inserting "shall," "shall be" and similar mandatory phrases by inference in the same manner as they are applied to notes on Drawings. The words "shall," "shall be" and similar mandatory phrases shall be supplied by inference where a colon (:) is used within sentences or phrases. Except as worded to the contrary, fulfill (perform) all indicated requirements whether stated in the imperative or otherwise.

B. Related Sections:

1. Some Sections of these Specifications (Divisions 1 through 2) may include a paragraph titled "Related Sections." This paragraph is an aid to the project Manual user and is not intended to include all Sections which may be related. It is CONTRACTOR's obligation to coordinate all Sections whether indicated under "Related Sections" or not.

1.04 WORK SEQUENCE:

A. Coordinate construction schedule and operations with ENGINEER. CONTRACTOR to provide Schedule of Values.

B. Sequence submittal:

1. Submit a proposed sequence with appropriate times of starting and completion of tasks to ENGINEER for review.

1.05 SALVAGED MATERIALS:

A. Ownership:

1. OWNER shall have the option of retaining ownership of any or all existing equipment, materials, and items removed under this Work.
2. Should OWNER decide not to retain ownership of certain items removed under the Work of this Section, those items shall become property of CONTRACTOR and shall be promptly removed from the Project Site.

PART 2 - PRODUCTS

2.01 OTHER MATERIALS:

A. General:

1. All other materials which are not specified herein and are not indicated on the Drawings, but are required for proper and complete performance of the Work.

B. Procedure:

1. Select new, first quality materials.
2. Obtain ENGINEER's review.
3. Provide and install.

END OF SECTION

SECTION 01012

STAKING AND INSPECTION SERVICES

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes:

1. This Section includes, but is not necessarily limited to, staking and inspection services to be provided by ENGINEER and others as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.

1.02 PROJECT LAYOUT:

1. By CONTRACTOR.

1.03 CONSTRUCTION INSPECTION:

A. By Eng., Inc.:

1. Expense:
   a. Paid by OWNER with amounts for additional inspection costs deducted from payment or payments to CONTRACTOR in accordance with Section 01700: Contract Closeout.

B. By OWNER:

1. Visits to site.
2. Expense: Paid by OWNER.

C. By ARCADIS:

1. Visits to site, inspection/sampling as needed.
2. Expense: Paid by OWNER.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

SECTION 01300

SUBMITTALS

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes: This Section includes, but not necessarily limited to, the submittal of a Project-Specific Health and Safety Plan in accordance with 40 CFR 1910 and all applicable OSHA and MIOSHA requirements

B. Related Sections:
1. Documents affecting work of this Section include, but are not necessarily limited to:
   a. Sections in Division 1 of these Specifications.
   b. Individual submittals required: Pertinent Sections of these Specifications.

PART 2 - PRODUCTS

2.01 SUBMITTALS REQUIRING ENGINEER'S REVIEW AND RETURN:

A. Schedule of Values:
1. Use AIA format.
2. Provide sufficient breakdown of specific items of work.

B. Construction Schedule:
1. Minimum size 11" x 17".
2. Correlate with Schedule of Values items.

C. Source of Materials as required in Section 02070: Selective Demolition.

D. Compaction Method as required in Section 02202: Earthwork.

END OF SECTION

SECTION 01700

CONTRACT CLOSEOUT

PART 3 - GENERAL

3.01 SUMMARY:

A. Section includes:
1. This Section includes, but is not necessarily limited to, the instructions for and the responsibilities of each party in contract closeout as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.

B. Related Sections:
1. Documents affecting work of this Section include, but are not necessarily limited to:
   a. Division 1 of these Specifications.

3.02 SUBSTANTIAL COMPLETION: HANDLED BY PAYMENT APPLICATION PROCESS

3.03 FINAL INSPECTION:

A. CONTRACTOR certification:
1. Prior to final inspection, CONTRACTOR shall submit Payment Application:
   a. The Contract Documents have been reviewed.
   b. The Project has been inspected in compliance with the Contract Documents.
   c. Work has been completed in accordance with the Contract Documents.
   d. The Project is complete and ready for final inspection.

B. ENGINEER's inspection:
1. The ENGINEER will make final inspection:
   a. Within 2 days after receipt of certification.
   b. Together with CONTRACTOR.

C. ENGINEER's determination of final completion:
1. Should ENGINEER consider the Work finally complete in accordance with the requirements of the contract documents, ENGINEER shall request CONTRACTOR to make Project closeout submittals.
2. Should ENGINEER consider the Work not finally complete:
   a. ENGINEER shall notify CONTRACTOR in writing stating the reasons.
   b. CONTRACTOR:
      i. Take immediate steps to remedy the stated deficiencies.
      ii. Send a second written notice to ENGINEER certifying that the Work is complete.
   c. ENGINEER and OWNER will reinspect the Work.

3.04 CLOSEOUT SUBMITTALS:

A. CONTRACTOR:
1. Provide closeout submittals as required.
2. These submittals shall include, but not necessarily be limited to:
   a. Project record documents.
   b. Guarantees.

3.05 EVIDENCE OF PAYMENTS AND RELEASE OF LIENS:

A. Affidavits:
1. Submit with final Application for Payment an affidavit of payment of debts and release of claims.
2. Affidavit shall include:
   a. CONTRACTOR's release or waiver of lien.
   b. Consent of surety of final payment.
   c. Separate releases or waivers of liens for Subcontractors, Suppliers and others with lien rights against property of OWNER together with a list of those parties.
3. If there are any interim pay requests, Partial Conditional will be required.

B. Execution:
1. All submittals shall be duly executed before delivery to OWNER and ENGINEER.

3.06 FINAL ADJUSTMENT OF ACCOUNTS:

A. Final statement:
1. Submit a final statement of accounting, which reflects all adjustment, to ENGINEER. This statement shall contain the following:
a. Original Contract Price.
b. Additions and deductions.
c. Total Contract Price as adjusted.
d. Previous payments.
e. Sum remaining due.

3.07 FINAL APPLICATION FOR PAYMENT:

A. CONTRACTOR shall submit a final Application for Payment in accordance with the requirements of the Contract Documents.

B. Disposition of final Application for Payment:
1. ENGINEER will, within 10 days after receipt of the Application for Payment:
a. Submit to OWNER a written recommendation for payment.
2. OWNER will, within 30 days after receipt of the Application for Payment and ENGINEER's recommendations in accordance with the Contract Documents, pay to CONTRACTOR the amount recommended.

C. If the Application for Payment, the Work or both are unacceptable:
1. ENGINEER will return the Application for Payment to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment.
2. CONTRACTOR shall make the necessary corrections and resubmit the Application for Payment.

D. OWNER shall make payment of the balance due for that portion of the Work fully completed and accepted:
1. If ENGINEER confirms that final completion of the Work is significantly delayed through no fault of CONTRACTOR.
2. Payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

PART 4 - PRODUCTS

Not used.

PART 5 - EXECUTION

Not used.

END OF SECTION

SECTION 01720

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL:

1.01 SUMMARY:

A. Section includes: This Section includes, but is not necessarily limited to, procedures for the maintenance, recording and submittal of Project record documents as herein specified indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.

1.02 MAINTENANCE OF DOCUMENTS AND SAMPLES:

A. Storage:
1. Store documents and Samples in CONTRACTOR's field office apart from documents used for construction.
2. Provide files and racks for storage documents.
3. Provide locked cabinet or secure storage space for storage Samples.
a. Filing: File record documents in accordance with CSI Master format.

B. Maintenance:
1. Maintain documents in a clean, dry, legible condition and in good order.
2. Do not use record documents for construction purposes.

C. Availability: Make documents and Samples available at all times for inspection by ENGINEER.

1.03 RECORDING:

A. Labeling: Label each document "PROJECT RECORD" in neat large printed letters.
Recording:
1. Record actual revisions to the Work.
2. Record information concurrently with construction progress.
3. Do not conceal any work until required information is recorded.

B. Drawings:
1. Legibly mark, with notes or graphic representations, to record actual construction:
a. Depths of various elements of foundation in relation to approved datum.
b. Horizontal and vertical locations of Underground Facilities and appurtenances, referenced to permanent surface improvements.
c. Location of internal utilities and appurtenances concealed in the construction, referenced to visible and accessible features of the structure.
d. Field changes of dimension and detail.
e. Changes made by Field Order, Work Change Directive or Change Order.
f. Details not on original Contract Drawings.
2. At ENGINEER's option, after ENGINEER's review of the record drawings, transfer all marks to a set of Mylars provided by ENGINEER or digital files.

1.04 SUBMITTAL:

A. Delivery: At Contract closeout, deliver record documents to ENGINEER for the OWNER.

B. Transmittal letter:
1. Accompany submittal with transmittal letter in duplicate, containing:
a. Date.
b. Project title and number.
c. CONTRACTOR's name and address.
d. Title and number of each record document.
e. Signature of CONTRACTOR or his authorized representative.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

SECTION 02070

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 GENERAL:

A. The CONTRACTOR's attention is directed to DIVISION 1: GENERAL REQUIREMENTS. They shall apply to all work of this section.

1.02 DESCRIPTION:

A. The work shall include the demolition of existing pavements and miscellaneous Site improvements found and noted on the topographic survey.

1.03 REGULATIONS AND STANDARDS:

A. All work shall comply with the rules and regulations of the Division of Industrial Safety and all other local and State agencies having jurisdiction. Nothing contained herein shall be construed as permitting work that is contrary to such rules, regulations and codes.

B. All work where applicable shall conform to the State of Michigan Soil Erosion and Sedimentation Act Part 91, Act 451 of P.A. 1994.

C. Obtain and pay for all permits required to perform the demolition work as required by all agencies and authorities having jurisdiction.

1.04 PROTECTION:

A. Avoid injury to soil, vegetation, paving, etc., on adjacent properties.

B. Erect and maintain temporary bracing, shoring, lights, barricades, warning signs, and guards necessary to protect streets, sidewalks, trees and adjoining property from damage, all in accordance with applicable rules and regulations.

1.05 MAINTENANCE OF TRAFFIC AND ACCESS:

A. Throughout progress of work do not interfere with use of access to adjacent buildings or property.

B. Do not close or otherwise obstruct sidewalks or streets.

1.06 HANDLING OF MATERIALS:

A. Remove salvage and debris from the Site as it accumulates. Do not store, sell, burn, or otherwise dispose of debris on the Site. Remove all materials in such manner as to prevent spillage. Keep all pavements and areas adjacent to and leading from the Site clean and free from mud, dirt and debris at all times.

B. All demolished materials shall become the property of the CONTRACTOR unless indicated otherwise. No persons other than the CONTRACTOR's employees shall be allowed to remove salvage from the Site.

PART 2 - PRODUCTS

2.01 FILL MATERIALS:

A. Clean bank run sand shall be used to fill all voids left by removal of foundations, utilities, walks or similar demolition. ENGINEER must approve of all fill material prior to placement. Submit source of material and a letter documenting it is virgin material.

PART 3 - EXECUTION

3.01 PRIOR TO STARTING:

A. Demolition work, make inspection with ENGINEER to determine physical condition of adjacent improvements to remain.

3.02 REMOVE:

A. Existing bituminous paving, concrete foundations, and miscellaneous materials and backfill immediately with surrounding soils.

3.03 WORKMANSHIP:

A. Execute demolition work to ensure safety of persons and adjacent property against damage by settlement, falling debris, or other causes in connection with this work. Concrete and masonry damaged during course of work shall be repaired or replaced to equal their present quality.

END OF SECTION

SECTION 02202

EARTHWORK

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes:
1. This Section includes, but is not necessarily limited to, the furnishing and installation of the major items listed below, as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.
2. Major items:
a. Earthwork.
b. Excavation.
c. Trenching.
d. Filling.
e. Backfilling.
f. Sheeting.
g. Bracing.
h. Shoring.
i. Grading.
j. Disposal of excavated materials.
k. Topsoil.
l. Excess water control.

1.02 REFERENCES:

A. Except as herein specified or as indicated on the Drawings, the work of this Section shall comply with the following:
1. MDOT:
a. 2012 Standard Specifications for Construction.
b. Standard Plans.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. General fill: Bank run sand, approved by ENGINEER.

B. Granular drainage fill: MDOT Granular Material Class II; 100 percent passing 1-inch sieve, 0-35 percent passing No. 100 sieve; loss by washing 0-7 percent.

C. Topsoil on lawn and planting areas: Dark organic, weed free loam, no muck or peat, approved by ENGINEER.

D. In accordance with Section 205: Sound Earth, in the MDOT 2012 Standard Specifications for Construction; or equal, as approved by ENGINEER.

PART 3 - EXECUTION

3.01 INSTALLATION:

A. Submit compaction method to ENGINEER for review and approval.

B. Furnish, put in place and maintain all sheeting, bracing and shoring as may be required to properly support the sides of all excavations and to prevent all movement of earth which could cause damage to the Work or adjacent property.

END OF SECTION

SECTION 02210

SITE GRADING

PART 4 - GENERAL

4.01 GENERAL:

A. The CONTRACTOR's attention is directed to DIVISION 1 - GENERAL REQUIREMENTS. They shall apply to all work of this section the same as if herein repeated in full.

4.02 DESCRIPTION:

A. Related Work specified elsewhere:
1. Section 02920: Soil Preparation.
2. Section 02930: Lawns and Grass.

4.03 REGULATIONS AND STANDARDS:

A. All work shall comply with the rules and regulations of the Division of Industrial Safety and all other local and State agencies having jurisdiction. Nothing contained herein shall be construed as permitting work that is contrary to such rules, regulations and codes.

B. All work where applicable shall conform to State of Michigan Soil Erosion and Sedimentation Part 91, Act 451 of the Public Acts of 1994, as amended and related Ordinance.

PART 5 - PRODUCTS

Not used.

PART 6 - EXECUTION

6.01 TOPSOIL STRIPPING:

A. Prior to mass earthwork, excavation, all topsoil must be removed from the construction Site. All topsoil shall be stripped from the areas to be occupied by the building and from within the Work Area which will receive walks, or other impervious surfacing. Remove topsoil to a maximum depth of 6 inches over the remainder of the Site within the Contract Limits where grading is required or areas to be occupied by storage areas. Stockpile on site.

6.02 ROUGH GRADING:

A. Perform all exterior cut, fill, backfill and grading as required to conform to the contours and elevations shown on the Drawings. Rough grading to be held below finish grades as follows: 4 inches minimum for topsoil at lawn areas:
1. Cut: Excavate all materials as required to establish rough grades. Excavated material in excess of that needed for fill shall be disposed of at OWNER's direction.
2. Fill: Except as noted below, fill material shall be ordinary soil as excavated on the Site, free from debris, roots, stones larger than 2 inches, silt, muck or peat. Fill under paving, sidewalks and similar areas shall be coarse sand or bank run gravel, capable of being compacted to the specified densities. Additional fill material required shall be furnished by the CONTRACTOR, equivalent to that obtained on the Site. Fill material shall be installed in layers not exceeding 9 inches and shall be moistened only as allowed by ENGINEER.
3. Compaction: Utilize compaction effort approved by ENGINEER.

6.03 DEWATERING:

A. CONTRACTOR shall be responsible for the drained condition of the Site and shall employ such means as well-pointing, ditching, pumping or bailing to prevent the impoundment of water which in any way hinders construction.

END OF SECTION

SECTION 02272

SOIL EROSION AND SEDIMENTATION CONTROL

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes:
1. This Section includes but is not necessarily limited to, the furnishing and installation of soil erosion and sedimentation control measures as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.

B. Related Sections:
1. Documents affecting work of this Section include, but are not necessarily limited to:
a. Section 02210: Site Grading.
b. Section 02930: Lawns and Grass.

1.02 REFERENCES:

A. Except as herein specified or as indicated on the Drawings, the work of this Section shall comply with the following:
1. Soil erosion control and sedimentation rules and guidelines of:
a. Michigan DEQ.
b. Lansing Township.

B. MDOT:
1. 2012 Standard Specifications for Construction.
2. Standard Plans.

1.03 SUBMITTALS:

A. Submit in accordance with Section 01300: Submittals.

B. Manufacturer's literature and Product data:
1. Submit for soil erosion control materials when requested by ENGINEER:
a. Product Samples.
b. Name of Manufacturer.
c. Trade Name.

1.04 QUALITY ASSURANCE:

A. OWNER: Reserves the right to issue a stop work order if soil erosion and sedimentation controls are not properly installed or maintained.

B. Work performed under a stop work order will not be considered for payment.

PART 2 - PRODUCTS

2.01 SOIL EROSION AND SEDIMENTATION CONTROL MATERIALS:

A. Vegetation:
1. Temporary vegetative cover: Perennial ryegrass.
2. Permanent vegetative cover: Seed, fertilizer, mulch as specified in Section 02930: Lawns and Grass.

B. Mulch Blanket:
1. Biodegradable:
a. Straw: North American Green S-150; or equal.
b. Coconut: North American Green C-125; or equal.
c. Straw and coconut: North American Green SC-150; or equal.
d. Wood fiber: MDOT Excelsior blanket.

2. Non degradable:
   a. Polyester: North American Green P-300; or equal.
3. Anchoring staples or pins: Wood pegs at least 6 inches long. Steel wire not permitted.

C. Filter bags:
1. Made from geotextile blanket:
   a. Comply with MDOT 910 except as herein specified.
   b. Dandy Bag II; or equal.

D. Geotextile silt fence:
1. Comply with MDOT 910 except as herein specified.
2. Manufacturer:
   a. Synthetic Industries, Terra Tex SC.
   b. Or equal.

PART 3 - EXECUTION

3.01 GENERAL:

A. Standard:
1. Achieve effective erosion control:
   a. Provide all materials.
   b. Promptly take all actions necessary.
2. Comply with MDOT 208 and 816 except as herein specified.

B. Site evaluation:
1. Conduct a field evaluation of the Site:
   a. Prior to start of the Work.
   b. With representatives of:
      i. ENGINEER.
      ii. Ingham County Drain Commissioner.
      iii. OWNER.

3.02 TEMPORARY VEGETATIVE COVER:

A. General:
1. Temporary vegetative cover under this Section will be required for areas which, within the time limits specified herein, are not:
   a. Permanently seeded or sodded in accordance with Section 02930: Lawns and Grass.
   b. Covered with permanent structures such as: Buildings, pavement, walks and parking lots.
   c. Used for other soil erosion control measures such as: Sedimentation basin and silt fences.
2. Seed, fertilize and mulch bare soil unless otherwise required by the Contract Documents:
   a. Within 30 days from the time final grade has been established if permanent measures are not completed within 15 days.
   b. Immediately upon completion of a section of the Work as required by ENGINEER.

B. Seed:
1. Apply uniformly at a minimum rate of:
   a. Temporary vegetative cover: 70 pounds per acre.
2. Fertilizer:
   a. Comply with MDOT 816.03.
3. Mulch:
   a. Comply with MDOT 816.03.
4. Mulch blanket:
   a. In accordance with Manufacturer's directions.
   b. Fibers in direct contact with soil.
   c. Staple pattern as specified in Manufacturer's literature for Site conditions.
   d. Direction of installation:
      i. Shorelines and channel banks: Parallel with direction of flow.
      ii. Slopes and steep channel banks: Vertical to the slope.

3.03 GEOTEXTILE SILT FENCE:

A. Install silt fence in accordance with Manufacturer's instructions.

B. Regularly inspect and maintain silt fence to verify it is functioning as designed.

END OF SECTION

SECTION 02720

STORM SEWER SYSTEM

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes:
1. This Section includes, but is not necessarily limited to, the furnishing and installation of storm sewer system as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.

1.02 REFERENCES:

A. Except as herein specified or as indicated on the Drawings, the work of this Section shall comply with the following:
1. ASTM Standard Specifications:
a. A 48 - Gray Iron Castings.
b. A 536 - Ductile Iron Castings.
c. C 14 - Concrete Sewer, Storm Drain, and Culvert Pipe.
d. C 55 - Concrete Building Brick.
e. C 62 - Building Brick (Solid Masonry Units made from Clay or Shale).
f. C 76 - Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.
g. C 139 - Concrete Masonry Units for Construction of Catch Basins and Manholes.
h. C 270 - Mortar for Unit Masonry.
i. C 443 - Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets.
j. C 478 - Precast Concrete Manhole Sections.
k. C 923 - Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes.
l. D 449 - Asphalt used in Dampproofing and Waterproofing.
m. F 405 - Corrugated Polyethylene (PE) Tubing and Fittings.
n. F 667 - Large Diameter Corrugated Polyethylene Tubing and Fittings.
2. ASTM Standards:
a. C 497 - Method of Testing Concrete Pipe, Sections, or Tile
b. C 822 - Definitions of Terms Relating to Concrete Pipe and Related Products.
c. C 924 - Practice for Testing Concrete Sewer Lines by Low Pressure Air Test Method.
d. F 449 - Subsurface Installation of Corrugated Thermoplastic Tubing for Agricultural Drainage or Water Table Control.
3. AASHTO Standards:
a. Corrugated Steel Pipe, Metallic-Coated for Sewers and Drains.
b. M218 - Steel Sheet, Zinc-Coated (Galvanized) for Corrugated Steel Pipe.
c. M274 - Steel Sheet, Aluminum-Coated (Type 2) for Corrugated Steel Pipe.
d. M252 - Corrugated Polyethylene Drainage Tubing.
e. M294 - Corrugated Polyethylene Pipe, 12 to 24-inch diameter.
f. M288 - Geotextiles Used for Subsurface Drainage Purposes, as modified in MDOT Section 910.03.
4. MDOT:
a. 2012 Standard Specifications for Construction.
b. Standard Plans.

1.03 DEFINITIONS:

A. Abbreviations:
1. EJIW - East Jordan Iron Works.
2. CSP - Corrugated steel pipe.
3. PVC - Polyvinyl chloride.
4. RCP - Reinforced concrete pipe.
5. PE - Polyethylene pipe.
6. DIP - Ductile iron pipe.

1.04 SUBMITTALS:

A. Submit in accordance with Section 01300: Submittals.

B. Method of bulkheading pipes:
1. General:
a. Dimensions.
b. Details of construction and installation.

1.05 QUALITY ASSURANCE:

A. Qualifications:
1. Installation personnel:
a. Trained and experienced in the installation of the materials and equipment.
b. Knowledgeable of the design and the reviewed Drawings.

1.06 DELIVERY, STORAGE AND HANDLING:

A. Receiving and storage:
1. All materials shall be delivered in original, unbroken, brand marked containers or wrapping as applicable.
2. Handle and store materials:
a. In a manner which will prevent:
i. Deterioration or damage.
ii. Contamination with foreign matter.
iii. Damage by weather or element.
3. In accordance with Manufacturer's directions.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

SECTION 02920

SOIL PREPARATION

PART 1 - GENERAL

1.01 GENERAL:

A. The CONTRACTOR's attention is directed to DIVISION 1 – GENERAL REQUIREMENTS. They shall apply to all work of this section as if herein repeated in full.

1.02 DESCRIPTION:

A. Related Work specified elsewhere:
1. Section 02210: Site Grading.
2. Section 02930: Lawns and Grass.

PART 2 - PRODUCTS

2.01 TOPSOIL:

A. Shall be obtained from the stockpiles upon approval. Topsoil shall be a friable sandy loam consisting of dark organic, natural surface soil, not including peat or muck. Float topsoil to a uniform surface.

2.02 FERTILIZER:

A. Shall be commercially prepared chemical fertilizer furnished to the job site in unopened bags showing weight and analysis. Any material which has been damaged or has deteriorated shall be promptly removed from the job site.

PART 3 - EXECUTION

3.01 TOPSOIL SPREADING:

A. The topsoil shall be spread uniformly to a minimum depth of 4 inches over all areas to be lawn. Ground cover beds shall receive a minimum depth of 8 inches. Additional topsoil material required shall be furnished by the CONTRACTOR and approved by the ENGINEER before placement. Float topsoil to a uniform surface.

3.02 RAKING:

A. Rake out from the topsoil all weeds, brush or stones, loosening as required to receive fertilizer.

END OF SECTION

SECTION 02930

LAWNS AND GRASS

PART 1 - GENERAL

1.01 SUMMARY:

A. Section includes:
1. This Section includes, but is not necessarily limited to, the furnishing and installation of the major items listed below, as indicated on the Drawings, as specified herein, and as necessary for the proper and complete performance of the Work.
2. Major items:
a. Seed.
b. Fertilizer.
c. Mulch.

B. Related Sections:
1. Documents affecting work of this Section include, but are not necessarily limited to:
a. Division 1 of these Specifications.
b. Section 02210: Site Grading.
c. Section 02272: Soil Erosion and Sedimentation Control.
d. Section 02920: Soil Preparation.

1.02 REFERENCES:

A. Except as herein specified or as indicated on the Drawings, the work of this Section shall comply with the following:
1. MDOT:
a. 2012 Standard Specifications for Construction.
b. Standard Plans.

1.03 DEFINITIONS:

A. Follow-up maintenance: Maintenance required when seeding, sodding, or other vegetative practices do not achieve the desired degree of stabilization.

B. Periodic maintenance: Maintenance performed after the vegetation has been established.

1.04 LOCATION:

A. Seeded areas: All disturbed areas within the project limits not covered by other surface improvements or features.

B. Mulch blankets: As indicated on the Drawings.

1.05 SUBMITTALS:

A. Submit in accordance with Section 01300: Submittals.

B. Product data: Submit for netting and mulch blanket.

C. Samples: Submit for netting and mulch blanket.

1.06 QUALITY ASSURANCE:

A. Qualifications:
1. Fabrication and installation personnel:
a. Trained and experienced in the fabrication and installation of the materials and equipment.
b. Knowledgeable of the design and the reviewed submittals.

1.07 DELIVERY, STORAGE AND HANDLING:

A. Receiving and storage:
1. All materials shall be delivered in original, unbroken, brand marked containers or wrapping indicating weight, analysis and Manufacturer's name.

2. Handle and store materials:
   a. In a manner which will prevent:
      i. Deterioration or damage.
      ii. Contamination with foreign matter.
      iii. Damage by weather or elements.
   b. In accordance with Manufacturer's directions.

B. Rejected material and replacements:
1. Reject damaged, deteriorated or contaminated material and immediately remove from the Site.
2. Replace rejected materials with new materials at no additional cost to OWNER.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Topsoil: In accordance with Section 02210: Site Grading.

B. Fertilizer:
1. Comply with MDOT 917.10 except as herein specified.
2. Liquid fertilizer for hydroseed: 16-32-4 containing no chlorine.

C. Seed:
1. Comply with MDOT 917.12 except as herein specified.
2. Uniform mixtures composed of seed of the following proportions by weight:
   a. Lawns: MDOT Class A.
   b. Other areas: MDOT Roadside.

D. Mulch:
1. Small grain:
   a. Straw.
   b. Hay.
2. Anchoring material for small grain mulch:
   a. Netting:
      i. Biodegradable.
      ii. Openings not to exceed 1½ inches x 2 inches.
      iii. Minimum roll width: 35 inches.
      iv. Anchoring staples or pins: Steel wire not permitted. Wood pegs at least 6 inches long.
   b. Asphalt emulsion adhesive: MDOT SS-1h.
   c. Latex-based adhesive.
3. Hydromulch:
   a. Slurry: Minimum 60 percent wood fiber mulch with remaining being recycled cellulose fibers.
   b. Tackifier:
      i. Manufacturers: Finn Fiber Plus; Finn Fiber gum; or equal.
      ii. Synthetic fiber or gum.
4. Mulch blankets:
   a. Biodegradable:
      i. Straw: North American Green S-75; or equal.
      ii. Coconut: North American Green C-125; or equal.
      iii. Straw and coconut: North American Green SC-150; or equal.
      iv. Wood fiber: MDOT excelsior blanket.
   b. Anchoring staples or pins: Wood pegs at least 6 inches long. Steel wire not permitted.

PART 3 - EXECUTION

3.01 TOPSOIL:

A. In accordance with Section 02210: Site Grading.

RACER Trust
Clarifier Removal and Site Restoration
Project No. 13046.00

Lawns and Grass
Section 02930

3.02 SEEDBED PREPARATION:

A. General:
1. After the areas to be seeded have been brought to the required grade and properly trimmed, bring soil to a friable condition by disking, harrowing, or otherwise loosening and mixing to a depth of 3 to 4 inches. Thoroughly break all lumps and clods.
2. If the prepared seedbed is not fertilized, satisfactorily seeded, and mulched before the friable condition is lost through compaction or crusting, repeat the seedbed preparation prior to seeding or reseeding.

B. Raking: Rake prepared seedbed before seeding.

3.03 FERTILIZING:

A. Dry fertilizer:
1. Broadcast on surface as first step in seeding process.
2. Apply with seeding if drilled.
3. Work fertilizer into the soil to a depth of 1 to 2 inches.
4. Apply uniformly.
5. Application rate: Equivalent to 240 pounds per acre of 12-12-12.

B. Hydroseeding:
1. Apply fertilizer with seed.
2. Application rate: Equivalent to 6.25 pounds per 1,000 square feet of 16-32-4.

3.04 SEEDING:

A. Scheduling:
1. Within 14 days from the time the area was first disturbed.
2. Channel banks: Within 24 hours from the time the area was first disturbed.
3. Seasonal limitations:
   a. Dormant seeding after November 1.

B. Sowing:
1. Sow the seed following or in conjunction with the fertilizer and while the seed bed is in a friable condition.
2. Do not sow seeds through mulch.
3. Application rate:
   a. Lawn area: Sow seed at a minimum rate of 5 pounds per 1000 square feet.
   b. Other areas: Sow seed at a minimum rate of 35 lbs/acre.

C. Finishing:
1. Float and lightly compact areas sown by hydroseeder or the broadcast method to incorporate the seed into the uppermost ½ inch of the soil.

D. Method:
1. Broadcast:
   a. Do not seed when wind velocity exceeds 5 miles per hour.
2. Mechanical drills.
3. Hydroseeder:
   a. Use only equipment specifically designed for hydraulic seeding application.
   b. Mix seed, fertilizer and pulverized mulch in water until uniformly blended into homogeneous slurry.
   c. Continue mixing during application.

E. Inspection:
1. Areas which are sown by hydroseeder or the broadcast method shall be visually inspected for uniformity of application; areas in which visual inspection fails to reveal an average of two seeds per square inch shall be resown at no additional cost to OWNER.

F. Seed on slopes:
1. Protect seeded slopes against erosion with netting, asphalt emulsion adhesive or other methods acceptable to ENGINEER.

3.05 MULCHING:

A. Small grain mulch:
1. Application:
a. Immediately after seeding.
b. Uniform distribution.
c. Allow sunlight to penetrate mulch.
2. Application rate: Two tons per acre (2-1/2 bales per 1,000 square feet).
3. Anchoring:
a. Mulch anchoring tool.
b. Netting.
c. Asphalt emulsion adhesive:
i. Hold mulch in place with asphalt emulsion or other materials approved by ENGINEER.
ii. Apply emulsion uniformly at a rate of 200 gallons per acre.
iii. Spray emulsion simultaneously with the mulch on immediately following mulching.
iv. Protect all signs, structures, and other objects from being marked or disfigured by adhesive materials.
v. Do not apply during freezing weather.
d. Latex based adhesive.

B. Hydromulch:
1. Apply with hydroseed or following seeding by other method.
2. Application rate: 1,250 pounds per acre.

C. Mulch blankets:
1. Netting on top.
2. Fibers in direct contact with soil.
3. Staple in accordance with Manufacturer's guidelines for slope conditions.
4. Direction of installation:
a. Direction of flow of water in intermittent and ephemeral drains.
b. Perpendicular to sideslopes above normal water level in perennial drains.

3.06 MAINTENANCE:

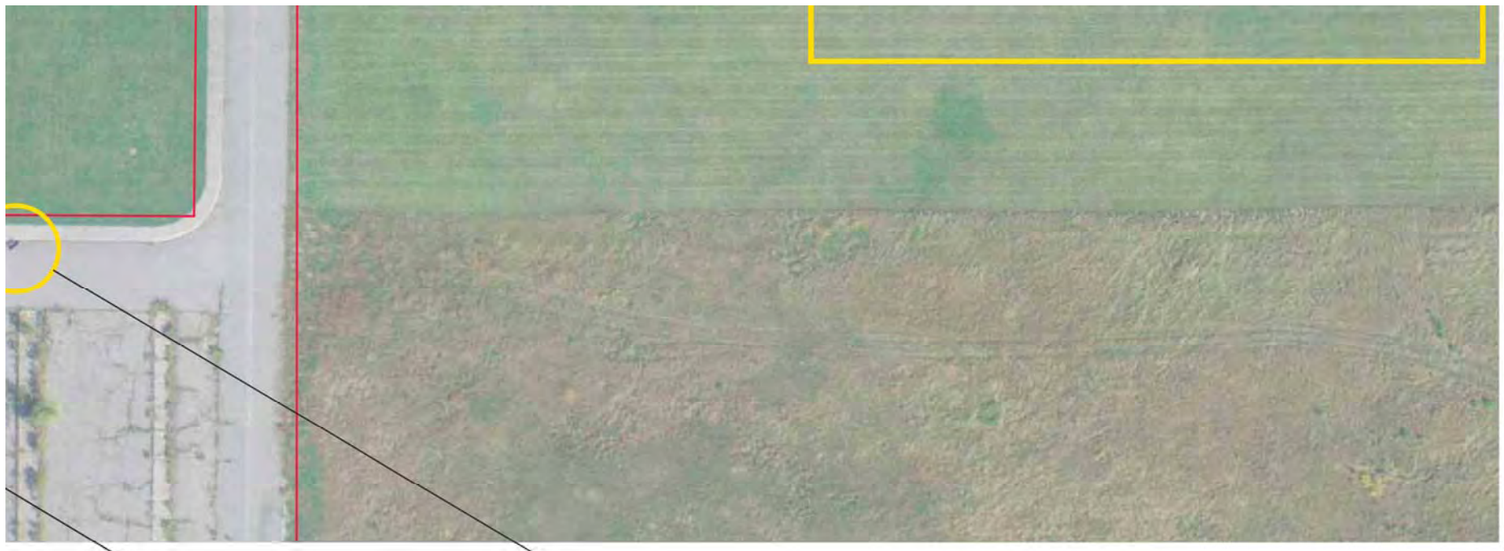
A. General:
1. CONTRACTOR: Responsible for follow-up maintenance.
2. OWNER, is responsible for periodic maintenance.

B. Follow-up maintenance:
1. Inspect materials planted in the spring during the summer or early fall, and take corrective action during the fall planting season.
2. Inspect materials planted in the fall during the spring and take corrective action during this spring planting season.
3. Reseed, sod, plant, fertilize, mulch, topsoil, grade and roll as necessary to achieve a uniform lawn free from eroded or bare areas.

END OF SECTION

ATTACHMENT 4

DRAWINGS

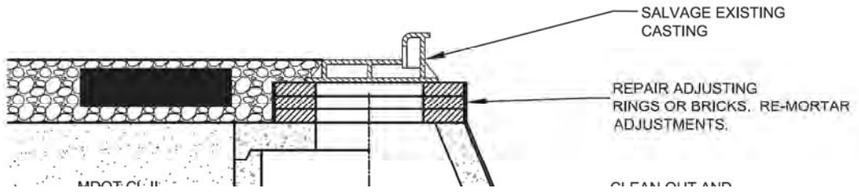


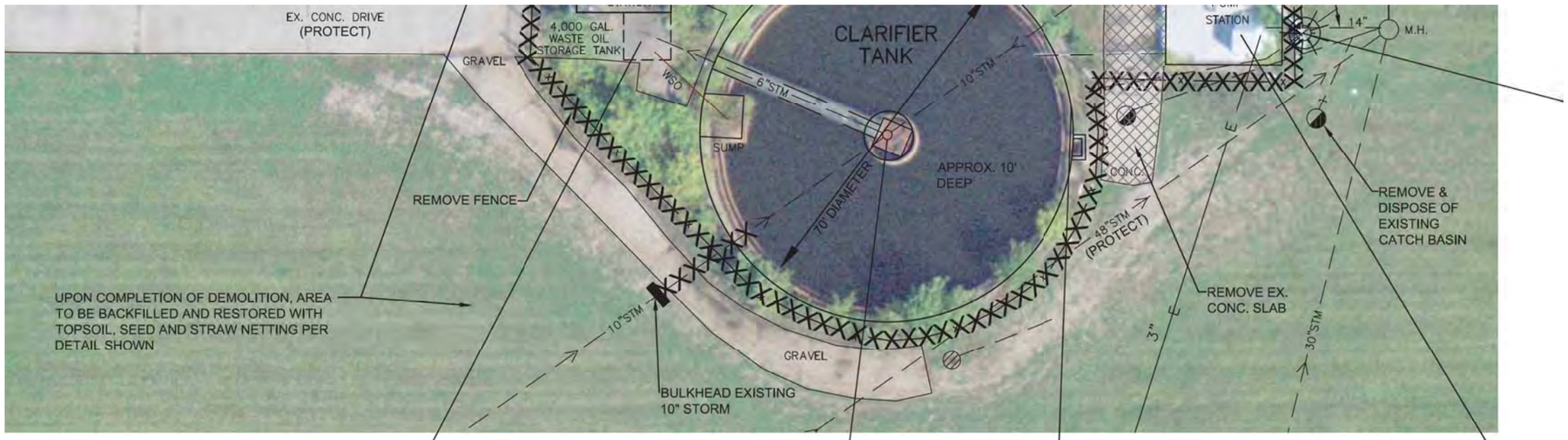
PROJECT LOCATION

ITE A109

SAWCUT, REMOVE AND DISPOSE OF ASPHALT AND CONCRETE TO LIMITS OF SINKHOLE, CLEAN OUT AND REPAIR EXISTING STRUCTURE AS NECESSARY, REPAIR/REPLACE PIPING OF SAME SIZE AND TYPE, BACKFILL WITH MDOT CL-II SAND, INSTALL 6-INCHES OF MDOT 22A AGGREGATE BASE COMPACTED IN PLACE TO FINAL GRADE. ENGINEER TO APPROVE REPAIR PRIOR TO BACKFILLING.

:ATMENT





GRIT STATION AND WASTE OIL TANK. REMOVE AND PROPERLY DISPOSE OF ALL PERTINENT EQUIPMENT OF THE GRIT STATION AND WASTE OIL TANK. REMOVE AND DISPOSE OF ALL BASEMENT WALLS TO 3 FEET BELOW FINAL GRADE, BASEMENT SLAB TO BE FRACTURED AND LEFT IN PLACE.

REMOVE AND PROPERLY DISPOSE OF ALL PERTINENT EQUIPMENT OF THE CLARIFIER, REMOVE AND PROPERLY DISPOSE OF ALL CONCRETE AND STEEL TANK WALLS TO A DEPTH OF 3 FEET BELOW FINAL GRADE. REMAINING CLARIFIER BASE SLAB TO BE FRACTURED AND LEFT IN PLACE.

STRAW MULCH NETTING,

ATTACHMENT 5

WASTE CHARACTERIZATION DATA

--TO BE PROVIDED AT A LATER DATE--

ATTACHMENT 6

RACER ENVIRONMENTAL EQUIPMENT DECOMMISSIONING CHECK SHEET

RACER EQUIPMENT ENVIRONMENTAL CHECK SHEET

Site Name:		**Area name:**		**Column / Bay Number:**	
Asset Tag Number:		**Lot Number:**			
Equipment Description:					
Equipment Disposition (Must check one):		**Serial Number:**			

Sale ☐ Scrap / Recycle ☐ Disposal to appropriate landfill ☐

DECOMMISSIONING RECORD

Environmental Issues:	Yes	No	N/A	Remain w/equip.
1. Are all **fluids drained** and all visible/accessible open lines/pipes/ports **capped or plugged**?				
2. Has the **fluid** in all hydraulic reservoirs been tested for **PCBs?** (Lab analytical provided by CRA)				
3. Were **PCBs detected?** (Lab analytical provided by CRA) **RESULTS:**				
4. Does the equipment contain **refrigerant?**				
5. Have all **PCB-containing items** (i.e. ballasts, capacitors, etc.) **been removed?**				
6. Have all **fluid-filled capacitors and transformers** been **drained or removed?**				
List the items:				
7. Have all **mercury-containing items** been **removed?** (Fluorescent light bulbs, thermostats, switches, etc.)				
8a. Is any **suspect ACM visible?**				
8b. If found, can **suspect ACM** be **confirmed** with available plant **survey?**				
8c. Have all **asbestos containing** items (except brake shoes/pads on mobile equipment) been **abated or removed?**				
9. Have all **batteries** been removed? (NiCd, Lead, Lithium, NiMh, etc)				
10. Have all **cathode ray tubes** (tv tubes) been removed? (not required if integrated into equipment)				
11. Have all **medical wastes** been removed?				
12. Havea all **radioactive devices** been removed?				
13a. Have all used **filters** been evaluated and removed, if required?				
13b. Have **RCRA filters** been confirmed by Plant Environmental Engineer?				
Filters on this item are: RCRA ☐ non-RCRA ☐				
14. Is equipment **free of loose debris** and in **non-leaking** condition? (chips, shavings, dirt, garbage)				
15. Have all **hazardous debris/substances** been removed?				
16. Have all **flammable liquids** been removed?				

Environmental Representative Signature: Environmental Representative signature executed by CRA on behalf of Revitalizing Auto Communities Environmental Response Trust is based upon visual inspection only by CRA of the cleaning/decommisioning services performed by MCM Mangagement Corp. and/or sub-contractors to MCM.

Environmental Representative	Date	Printed Name
RACER Site Manager	Date	Printed Name

Comments:

PCB evaluation and testing on equipment performed by CRA. All PCB containing material and/or contaminated equipment has been removed from sale by RACER.

Hydraulic Reservoir: Yes ☐ No ☐ **Drum Requested:** Yes ☐ No ☐

Drum ID Number:	**Shipper Number:**

Table 1
Summary of Plant 3 Clarifier Sample Analytical Results
RACER Trust Plant 3 - Lansing, Michigan

Location ID: / Sample Type: / Date Collected:	Units	Clarifier Liquid 10/03/13	Clarifier Sludge 10/03/13	Waste Oil Storage Tank Liquid 10/03/13	Waste Oil Storage Tank Sludge 10/03/13
Volatile Organics					
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	<5	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	ug/L	<1	NA	NA	NA
1,2-Dichlorobenzene	ug/L	<1	NA	NA	NA
1,4-Dichlorobenzene	ug/L	<1	NA	NA	NA
1,1,1-Trichloroethane	ug/L	<1	NA	NA	NA
2-Hexanone	ug/L	<50	NA	NA	NA
1,1,1,2-Tetrachloroethane	ug/L	<1	NA	NA	NA
1,1,2,2-Tetrachloroethane	ug/L	<1	NA	NA	NA
Acetone	ug/L	<50	NA	NA	NA
Acrylonitrile	ug/L	<2	NA	NA	NA
1,1,2-Trichloroethane	ug/L	<1	NA	NA	NA
Bromochloromethane	ug/L	<1	NA	NA	NA
Bromobenzene	ug/L	<1	NA	NA	NA
Bromodichloromethane	ug/L	<1	NA	NA	NA
1,1-Dichloroethane	ug/L	<1	NA	NA	NA
Bromoform	ug/L	<1	NA	NA	NA
1,1-Dichloroethene	ug/L	<1	NA	NA	NA
Bromomethane (Methyl bromide)	ug/L	<5	NA	NA	NA
n-Butylbenzene	ug/L	<1	NA	NA	NA
sec-Butylbenzene	ug/L	<1	NA	NA	NA
tert-Butylbenzene	ug/L	<1	NA	NA	NA
1,2-Dichloroethane	ug/L	<1	NA	NA	NA
Carbon disulfide	ug/L	<5	NA	NA	NA
Carbon tetrachloride	ug/L	<1	NA	NA	NA
cis-1,2-Dichloroethene	ug/L	<1	NA	NA	NA
Chlorobenzene	ug/L	<1	NA	NA	NA
trans-1,2-Dichloroethene	ug/L	<1	NA	NA	NA
trans-1,4-Dichloro-2-butene	ug/L	<1	NA	NA	NA
Chloroform (Trichloromethane)	ug/L	<1	NA	NA	NA
Trichloroethene	ug/L	<1	NA	NA	NA
Chloromethane (Methyl chloride)	ug/L	<5	NA	NA	NA
Tetrachloroethene	ug/L	<1	NA	NA	NA
Tetrahydrofuran	ug/L	<90	NA	NA	NA
cis-1,3-Dichloropropene	ug/L	<1	NA	NA	NA
Vinyl chloride	ug/L	<1	NA	NA	NA
Chloroethane	ug/L	<5	NA	NA	NA
Dibromomethane	ug/L	<5	NA	NA	NA
Dichlorodifluoromethane (CFC-12)	ug/L	<5	NA	NA	NA
Diethyl ether	ug/L	<10	NA	NA	NA
Benzene	ug/L	<1	NA	NA	NA
Methyl iodide	ug/L	<1	NA	NA	NA
Ethylbenzene	ug/L	<1	NA	NA	NA
Methylene chloride	ug/L	<5	NA	NA	NA
Styrene	ug/L	<1	NA	NA	NA
Toluene	ug/L	<1	NA	NA	NA
trans-1,3-Dichloropropene	ug/L	<1	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/L	<5	NA	NA	NA
Trichlorofluoromethane (CFC-11)	ug/L	<1	NA	NA	NA
Naphthalene	ug/L	<5	NA	NA	NA
2-Methylnaphthalene	ug/L	<5	NA	NA	NA
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	<25	NA	NA	NA
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	<50	NA	NA	NA
1,2,3-Trichlorobenzene	ug/L	<5	NA	NA	NA
1,2,3-Trichloropropane	ug/L	<1	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	<5	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	<1	NA	NA	NA

Table 1
Summary of Plant 3 Clarifier Sample Analytical Results
RACER Trust Plant 3 - Lansing, Michigan

Location ID: / Sample Type: / Date Collected:	Units	Clarifier Liquid 10/03/13	Clarifier Sludge 10/03/13	Waste Oil Storage Tank Liquid 10/03/13	Waste Oil Storage Tank Sludge 10/03/13
Volatile Organics Continued					
1,2,4-Trimethylbenzene	ug/L	<1	NA	NA	NA
1,3,5-Trimethylbenzene	ug/L	<1	NA	NA	NA
1,2-Dichloropropane	ug/L	<1	NA	NA	NA
1,3-Dichlorobenzene	ug/L	<1	NA	NA	NA
Dibromochloromethane	ug/L	<5	NA	NA	NA
Isopropyl benzene	ug/L	<5	NA	NA	NA
p-Isopropyltoluene	ug/L	<5	NA	NA	NA
n-Propylbenzene	ug/L	<1	NA	NA	NA
o-Xylene	ug/L	<1	NA	NA	NA
m&p-Xylene	ug/L	<2	NA	NA	NA
Semivolatile Organics					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	<5	NA	NA	NA
2,4,6-Trichlorophenol	ug/L	<4	NA	NA	NA
2,4-Dichlorophenol	ug/L	<10	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	<5	NA	NA	NA
2,4-Dimethylphenol	ug/L	<5	NA	NA	NA
2,4-Dinitrophenol	ug/L	<25	NA	NA	NA
2,4-Dinitrotoluene	ug/L	<5	NA	NA	NA
2,6-Dinitrotoluene	ug/L	<5	NA	NA	NA
2-Chloronaphthalene	ug/L	<5	NA	NA	NA
2-Chlorophenol	ug/L	<10	NA	NA	NA
2-Methylnaphthalene	ug/L	<5	NA	NA	NA
2-Methylphenol	ug/L	<10	NA	NA	NA
2-Nitroaniline	ug/L	<25	NA	NA	NA
2-Nitrophenol	ug/L	<5	NA	NA	NA
3&4-Methylphenol	ug/L	<20	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	<5	NA	NA	NA
Naphthalene	ug/L	<5	NA	NA	NA
3-Nitroaniline	ug/L	<25	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	<20	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	<5	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	<5	NA	NA	NA
4-Chloroaniline	ug/L	<10	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	<5	NA	NA	NA
4-Nitroaniline	ug/L	<25	NA	NA	NA
4-Nitrophenol	ug/L	<25	NA	NA	NA
Anthracene	ug/L	<5	NA	NA	NA
Acenaphthene	ug/L	<5	NA	NA	NA
Acenaphthylene	ug/L	<5	NA	NA	NA
Benzo(a)anthracene	ug/L	<1	NA	NA	NA
Benzo(a)pyrene	ug/L	<1	NA	NA	NA
Benzo(b)fluoranthene	ug/L	<1	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	<1	NA	NA	NA
Benzo(k)fluoranthene	ug/L	<1	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	<5	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	<5	NA	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	**5**	NA	NA	NA
Butyl benzylphthalate (BBP)	ug/L	<5	NA	NA	NA
Chrysene	ug/L	<1	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	<2	NA	NA	NA
Dibenzofuran	ug/L	<4	NA	NA	NA
Diethyl phthalate	ug/L	<5	NA	NA	NA
Dimethyl phthalate	ug/L	<5	NA	NA	NA
Di-n-butylphthalate (DBP)	ug/L	<5	NA	NA	NA
Di-n-octyl phthalate (DnOP)	ug/L	<5	NA	NA	NA
1,2-Diphenylhydrazine	ug/L	<5	NA	NA	NA
Fluoranthene	ug/L	<1	NA	NA	NA
Fluorene	ug/L	<5	NA	NA	NA
Hexachlorobenzene	ug/L	<5	NA	NA	NA
Hexachlorobutadiene	ug/L	<10	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	<5	NA	NA	NA
Hexachloroethane	ug/L	<5	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	<2	NA	NA	NA
Isophorone	ug/L	<5	NA	NA	NA
Nitrobenzene	ug/L	<5	NA	NA	NA
N-Nitrosodi-n-propylamine	ug/L	<5	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	<5	NA	NA	NA
Pentachlorophenol	ug/L	<5	NA	NA	NA
Phenanthrene	ug/L	<2	NA	NA	NA
Phenol	ug/L	<5	NA	NA	NA
Pyrene	ug/L	<5	NA	NA	NA

Table 1
Summary of Plant 3 Clarifier Sample Analytical Results
RACER Trust Plant 3 - Lansing, Michigan

Location ID: Sample Type: Date Collected:	Units	Clarifier Liquid 10/03/13	Clarifier Sludge 10/03/13	Waste Oil Storage Tank Liquid 10/03/13	Waste Oil Storage Tank Sludge 10/03/13
PCBs					
Total PCBs	ug/L (liquid) ug/kg (sludge)	<0.1	**500**	**0.2**	**1,100**
Aroclor-1016 (PCB-1016)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	<0.1	<1,000
Aroclor-1221 (PCB-1221)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	<0.1	<1,000
Aroclor-1232 (PCB-1232)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	<0.1	<1,000
Aroclor-1242 (PCB-1242)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	<0.1	<1,000
Aroclor-1248 (PCB-1248)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	**0.2**	**1,100**
Aroclor-1254 (PCB-1254)	ug/L (liquid) ug/kg (sludge)	<0.1	**500**	<0.1	<1,000
Aroclor-1260 (PCB-1260)	ug/L (liquid) ug/kg (sludge)	<0.1	<1,000	<0.1	<1,000
Inorganics					
Arsenic	mg/L	**0.002**	NA	NA	NA
Barium	mg/L	**0.069**	NA	NA	NA
Cadmium	mg/L	<0.0005	NA	NA	NA
Chromium	mg/L	<0.005	NA	NA	NA
Copper	mg/L	<0.005	NA	NA	NA
Lead	mg/L	<0.005	NA	NA	NA
Mercury	mg/L	<0.0002	NA	NA	NA
Selenium	mg/L	<0.005	NA	NA	NA
Silver	mg/L	<0.0005	NA	NA	NA
Zinc	mg/L	<0.005	NA	NA	NA

NA = Not Analyzed

Table 2
Summary of Plant 3 Clarifier Sample TCLP Analytical Results
RACER Trust Plant 3 - Lansing, Michigan

EPA HW No. [1]	Contaminant	CAS No. [2]	Units	Toxicity Characteristics Values (mg/L) (40 CFR 261.24)	Clarifier Sludge 10/03/13	Waste Oil Storage Tank Liquid 10/03/13	Waste Oil Storage Tank Sludge 10/03/13
General							
Flash Point			oF (liquid) mm/sec (sludge)	- -	ND	ND	ND
pH			STD Units	- -	7.15	7.29	7.40
Reactive Cyanide			mg/L (liquid) mg/kg (sludge)	- -	ND	ND	ND
Reactive Sulfide			mg/L (liquid) mg/kg (sludge)	- -	ND	ND	ND
Total Solids			%	- -	24	- -	86
TCLP							
D004	Arsenic	7440-38-2	mg/L	5	**0.04**	<0.02	<0.02
D005	Barium	7440-39-3	mg/L	100	**0.74**	<0.05	**0.05**
D006	Cadmium	7440-43-9	mg/L	1	<0.005	<0.005	<0.005
D007	Chromium	7440-47-3	mg/L	5	<0.05	<0.05	<0.05
D008	Lead	7439-92-1	mg/L	5	<0.05	<0.05	<0.05
D009	Mercury	7439-97-6	mg/L	0.2	<0.0002	<0.0002	<0.0002
D010	Selenium	7782-49-2	mg/L	1	<0.05	<0.05	<0.05
D011	Silver	7440-22-4	mg/L	5	<0.005	<0.005	<0.005
D018	Benzene	71-43-2	mg/L	0.5	<0.1	<0.1	<0.1
D019	Carbon tetrachloride	56-23-5	mg/L	0.5	<0.1	<0.1	<0.1
D021	Chlorobenzene	108-90-7	mg/L	100	<0.1	<0.1	<0.1
D022	Chloroform	67-66-3	mg/L	6	<0.1	<0.1	<0.1
D023	o-Cresol	95-48-7	mg/L	200 [4]	<1.0	<1.0	<1.0
D024	m-Cresol	108-39-4	mg/L	200 [4]	<1.0	<1.0	<1.0
D025	p-Cresol	106-44-5	mg/L	200 [4]	<1.0	<1.0	<1.0
D027	1,4-Dichlorobenzene	106-46-7	mg/L	7.5	<0.1	<0.1	<0.1
D028	1,2-Dichloroethane	107-06-2	mg/L	0.5	<0.1	<0.1	<0.1
D029	1,1-Dichloroethylene	75-35-4	mg/L	0.7	<0.1	<0.1	<0.1
D030	2,4-Dinitrotoluene	121-14-2	mg/L	.13 [3]	<0.09	<0.09	<0.09
D032	Hexachlorobenzene	118-74-1	mg/L	.13 [3]	<0.09	<0.09	<0.09
D033	Hexachlorobutadiene	87-68-3	mg/L	0.5	<0.1	<0.1	<0.1
D034	Hexachloroethane	67-72-1	mg/L	3	<0.1	<0.1	<0.1
D035	Methyl ethyl ketone	78-93-3	mg/L	200	<1	<1	<1
D036	Nitrobenzene	98-95-3	mg/L	2	<0.1	<0.1	<0.1
D037	Pentrachlorophenol	87-86-5	mg/L	100	<1	<1	<1
D038	Pyridine	110-86-1	mg/L	5 [3]	<0.1	<0.1	<0.1
D039	Tetrachloroethylene	127-18-4	mg/L	0.7	<0.1	<0.1	<0.1
D040	Trichloroethylene	79-01-6	mg/L	0.5	<0.1	<0.1	<0.1
D041	2,4,5-Trichlorophenol	95-95-4	mg/L	400	<1	<1	<1
D042	2,4,6-Trichlorophenol	88-06-2	mg/L	2	<1	<1	<1
D043	Vinyl chloride	75-01-4	mg/L	0.2	<0.1	<0.1	<0.1

1. Hazardous waste number.

2. Chemical abstracts service number.

3. Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

4. If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

Analytical Laboratory Report

Report ID: S63036.01(01)
Generated on 10/17/2014

Report to

Attention: Sean Jeric
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Report Summary

Lab Sample ID(s): S63036.01-S63036.04
Project: RACER Lansing B0064479
Collected Date: 10/03/2014
Submitted Date/Time: 10/03/2014 13:30
Sampled by: Filipiak/Cobern
P.O. #: B0064479

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
335.4/4500-CN-E	
4500-S2 D	
ASTMD3278 - 96	ASTM Method D3278 - 96(2011)
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
E608	EPA Method 608
N/A	Not Applicable
SM2540B	Standard Method 2540 B 20th Edition
SM4500-H+ B	Standard Method 4500 H + B 20th Edition
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9030B	SW 846 Method 9030B Revision 2 December 1996
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63036.01	Clarifier_100314	Liquid	10/03/2014 10:00
S63036.02	Clarifier_100314	Sludge	10/03/2014 11:00
S63036.03	Wost_100314	Liquid	10/03/2014 12:00
S63036.04	Wost_100314	Sludge	10/03/2014 12:10

Analytical Laboratory Report

Lab Sample ID: S63036.01
Sample Tag: Clarifier_100314
Collected Date/Time: 10/03/2014 10:00
Matrix: Liquid
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	14.8	IR
3	40ml Glass	HCL	Yes	14.8	IR
4	1L Amber	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
BNA Extraction	Completed			SW3510C	10/07/14 13:40	EMR		
Extraction, PCB	Completed			SW3510C	10/06/14 10:00	RGS		
Mercury Digestion	Completed			E245.1	10/07/14 10:50	CCM		
Metal Digestion	Completed			SW3015A	10/09/14 13:30	JRH		
pH check for VOCs	<2	STD Units		N/A	10/08/14 10:48	LBR		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	10/07/14 12:00	RGS	<140	
pH	7.89	STD Units	0.01	SM4500-H+ B	10/03/14 15:10	WAR	12.5	
Reactive Cyanide	Not detected	mg/L	0.5	335.4/4500-CN-E	10/13/14 11:40	JDP		
Reactive Sulfide	Not detected	mg/L	2.0	4500-S2 D	10/13/14 09:38	JDP		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	10/09/14 15:19	JRH		
Barium	0.069	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Cadmium	Not detected	mg/L	0.0005	E200.8	10/09/14 15:19	JRH		
Chromium	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Copper	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Lead	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Mercury	Not detected	mg/L	0.0002	E245.1	10/07/14 14:45	CCM		
Selenium	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Silver	Not detected	mg/L	0.0005	E200.8	10/09/14 15:19	JRH		
Zinc	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1221	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1232	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1242	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1248	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1254	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1260	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB, Total	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Acenaphthylene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Anthracene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Benzo(a)anthracene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(a)pyrene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroethyl)ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Ethylhexyl)phthalate	5	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Bromophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Butyl benzyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Chloroaniline	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
2-Chloronaphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Chloro-3-methylphenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Chlorophenol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Chrysene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
p,m-Cresol	Not detected	ug/L	20	SW8270D	10/10/14 05:47	PL	200,000	
o-Cresol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL	200,000	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Dibenzofuran	Not detected	ug/L	4	SW8270D	10/10/14 05:47	PL		
di-n-Butyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL	7,500	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4-Dichlorophenol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
Diethyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4-Dimethylphenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Dimethyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	SW8270D	10/10/14 05:47	PL		
2,4-Dinitrophenol	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
2,4-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	130	
2,6-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2-Diphenylhydrazine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
di-n-Octyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Fluorene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Hexachlorobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	130	
Hexachlorobutadiene	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL	500	
Hexachlorocyclopentadiene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Hexachloroethane	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	3,000	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Isophorone	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Methylnaphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Naphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
3-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
4-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
Nitrobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	2,000	

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2-Nitrophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Nitrophenol	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
N-Nitrosodiphenylamine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Pentachlorophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	100,000	
Phenanthrene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Phenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Pyrene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4,5-Trichlorophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	4	SW8270D	10/10/14 05:47	PL	2,000	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/07/14 19:08	WAT		
Acetone	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
Methyl iodide	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/07/14 19:08	WAT		
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/07/14 19:08	WAT	200,000	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Chloromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	200	
Bromomethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Chloroethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	700	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/07/14 19:08	WAT		
Chloroform	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	6,000	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
2-Hexanone	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
Benzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Dibromomethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Toluene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	700	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Chlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	100,000	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/07/14 19:08	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Styrene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Bromoform	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Bromobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	7,500	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT	3,000	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Naphthalene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		

Analytical Laboratory Report

Lab Sample ID: S63036.02
Sample Tag: Clarifier_100314
Collected Date/Time: 10/03/2014 11:00
Matrix: Sludge
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	10/07/14 10:00	RGS		
Mercury Digestion	Completed			SW7471B	10/15/14 12:00	CCM		
Metal Digestion	Completed			SW3015A	10/15/14 12:00	JRH		
TCLP Zero Headspace Ext.	Completed			SW1311	10/14/14 19:00	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/16/14 11:42	EMR		
TCLP Extraction								
Inital Sample pH	7.41			SW1311	10/14/14 19:00	WAR		
pH after 3.5 ml HCl	2.38			SW1311	10/14/14 19:00	WAR		
% Solids	22			SW1311	10/14/14 19:00	WAR		
Sample Used g	66			SW1311	10/14/14 19:00	WAR		
Final Volume mL	1,554			SW1311	10/14/14 19:00	WAR		
TCLP Extraction Fluid	1			SW1311	10/14/14 19:00	WAR		
Final Extract pH	6.54			SW1311	10/14/14 19:00	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/03/14 12:00	RGS		
pH/ Corrosivity	7.15	STD Units	0.1	SW9045D	10/15/14 14:22	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	0.4	335.4/4500-CN-E	10/13/14 11:48	JDP		
Reactive Sulfide	Not detected	mg/kg	10	SW9030B	10/13/14 09:46	JDP		1
Total Solids	24	%	1	SM2540B	10/05/14 18:55	ASB		
Metals								
Arsenic, TCLP	0.04	mg/L	0.02	SW6020A	10/15/14 15:15	JRH	5.0	
Barium, TCLP	0.74	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:15	JRH	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	5.0	
Lead, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/15/14 15:56	CCM	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:15	JRH	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1242	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1221	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1232	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1248	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1254	500	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		b
PCB-1260	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		

1-* Total Sulfide = 349 mg/kg
b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S63036.02 (continued)
Sample Tag: Clarifier_100314

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	SW8270D	10/16/14 20:32	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/16/14 20:32	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/16/14 20:32	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/16/14 14:37	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	200	

Analytical Laboratory Report

Lab Sample ID: S63036.03
Sample Tag: Wost_100314
Collected Date/Time: 10/03/2014 12:00
Matrix: Liquid
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	32oz Glass	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3510C	10/08/14 10:00	RGS		
Mercury Digestion	Completed			SW7471B	10/15/14 11:05	CCM		
Metal Digestion	Completed			SW3015A	10/15/14 12:00	JRH		
TCLP Zero Headspace Ext.	<5.0%			SW1311	10/09/14 19:00	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/16/14 11:42	EMR		
TCLP Extraction								
Inital Sample pH	<0.5%			SW1311	10/09/14 19:00	WAR		
pH after 3.5 ml HCl	<0.5%			SW1311	10/09/14 19:00	WAR		
% Solids	<0.5%			SW1311	10/09/14 19:00	WAR		
Sample Used g	<0.5%			SW1311	10/09/14 19:00	WAR		
Final Volume mL	<0.5%			SW1311	10/09/14 19:00	WAR		
TCLP Extraction Fluid	<0.5%			SW1311	10/09/14 19:00	WAR		
Final Extract pH	<0.5%			SW1311	10/09/14 19:00	WAR		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	10/07/14 12:00	RGS	<140	
pH/ Corrosivity	7.29	STD Units	0.1	SW9045D	10/15/14 14:22	WAR	12.5	
Reactive Cyanide	Not detected	mg/L	0.5	335.4/4500-CN-E	10/13/14 11:50	JDP		
Reactive Sulfide	Not detected	mg/L	2.0	4500-S2 D	10/13/14 09:48	JDP		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/15/14 15:18	JRH	5.0	
Barium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:18	JRH	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:18	JRH	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:18	JRH	5.0	
Lead, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:18	JRH	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/15/14 14:49	CCM	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:18	JRH	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:18	JRH	5.0	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB-1221	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB-1232	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB-1242	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB-1248	0.2	ug/L	0.1	E608	10/09/14 11:21	ADB		Q
PCB-1254	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB-1260	Not detected	ug/L	0.1	E608	10/09/14 11:21	ADB		
PCB, Total	0.2	ug/L	0.1	E608	10/09/14 11:21	ADB		

Q-Reported result represents most abundant aroclor

Lab Sample ID: S63036.03 (continued)
Sample Tag: Wost_100314

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	SW8270D	10/16/14 20:55	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:55	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:55	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:55	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:55	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/16/14 20:55	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/16/14 20:55	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/16/14 20:55	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/16/14 20:55	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/16/14 20:55	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/16/14 20:55	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/15/14 15:26	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/15/14 15:26	WAT	200	

Analytical Laboratory Report

Lab Sample ID: S63036.04
Sample Tag: Wost_100314
Collected Date/Time: 10/03/2014 12:10
Matrix: Sludge
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	10/07/14 10:00	RGS		
Mercury Digestion	Completed			SW7471B	10/15/14 12:00	CCM		
Metal Digestion	Completed			SW3015A	10/15/14 12:00	JRH		
TCLP Zero Headspace Ext.	Completed			SW1311	10/14/14 19:00	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/16/14 11:42	EMR		
TCLP Extraction								
Inital Sample pH	6.81			SW1311	10/14/14 19:00	WAR		
pH after 3.5 ml HCl	1.97			SW1311	10/14/14 19:00	WAR		
% Solids	100			SW1311	10/14/14 19:00	WAR		
Sample Used g	100			SW1311	10/14/14 19:00	WAR		
Final Volume mL	2,000			SW1311	10/14/14 19:00	WAR		
TCLP Extraction Fluid	1			SW1311	10/14/14 19:00	WAR		
Final Extract pH	4.94			SW1311	10/14/14 19:00	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/03/14 12:00	RGS		
pH/ Corrosivity	7.40	STD Units	0.1	SW9045D	10/15/14 14:22	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	0.4	335.4/4500-CN-E	10/13/14 11:52	JDP		
Reactive Sulfide	Not detected	mg/kg	10	SW9030B	10/13/14 09:50	JDP		1
Total Solids	86	%	1	SM2540B	10/05/14 18:55	ASB		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/15/14 15:20	JRH	5.0	
Barium, TCLP	0.05	mg/L	0.05	SW6020A	10/15/14 15:20	JRH	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:20	JRH	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:20	JRH	5.0	
Lead, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:20	JRH	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/15/14 15:58	CCM	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:20	JRH	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:20	JRH	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1242	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1221	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1232	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1248	1,100	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1254	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		
PCB-1260	Not detected	ug/kg	1,000	SW8082A	10/08/14 11:28	JAN		

1-* Total Sulfide = 390 mg/kg

Lab Sample ID: S63036.04 (continued)
Sample Tag: Wost_100314

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	SW8270D	10/16/14 21:18	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/16/14 21:18	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 21:18	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 21:18	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 21:18	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/16/14 21:18	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/16/14 21:18	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/16/14 21:18	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/16/14 21:18	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/16/14 21:18	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/16/14 21:18	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/16/14 14:59	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/16/14 14:59	WAT	200	

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

87206

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: SEAN JERIC
COMPANY: ARCADIS
ADDRESS: 28550 CABOT DR.
CITY: NOVI STATE: MI ZIP CODE: 48377
PHONE NO.: 248-994-2250 FAX NO.: 248-994-2241 P.O. NO.:
E-MAIL ADDRESS: SEAN.JERIC@ARCADIS-US.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER LANSING B00644791
SAMPLER(S) - PLEASE PRINT/SIGN NAME: FILIPIAK / COBERN

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TOTAL VOC'S	SVOC'S	PCB'S	PCI	TCLP VOC'S	TCLP SVOC'S	Ni 10 METALS	TCLP METALS
63036.01	10/3/14	1000	CLARIFIER_100314	L	8	X	X	X					X	X	X	X			X	
.02	"	1100	CLARIFIER_100314	SL	1	X									X	X	X	X		X
.03	"	1200	WOST_100314	L	3	X									X	X	X	X		X
.04	"	1210	WOST_100314	SL	1	X									X	X	X	X		X

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
Scott Filipiak		10.3.14	1330
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

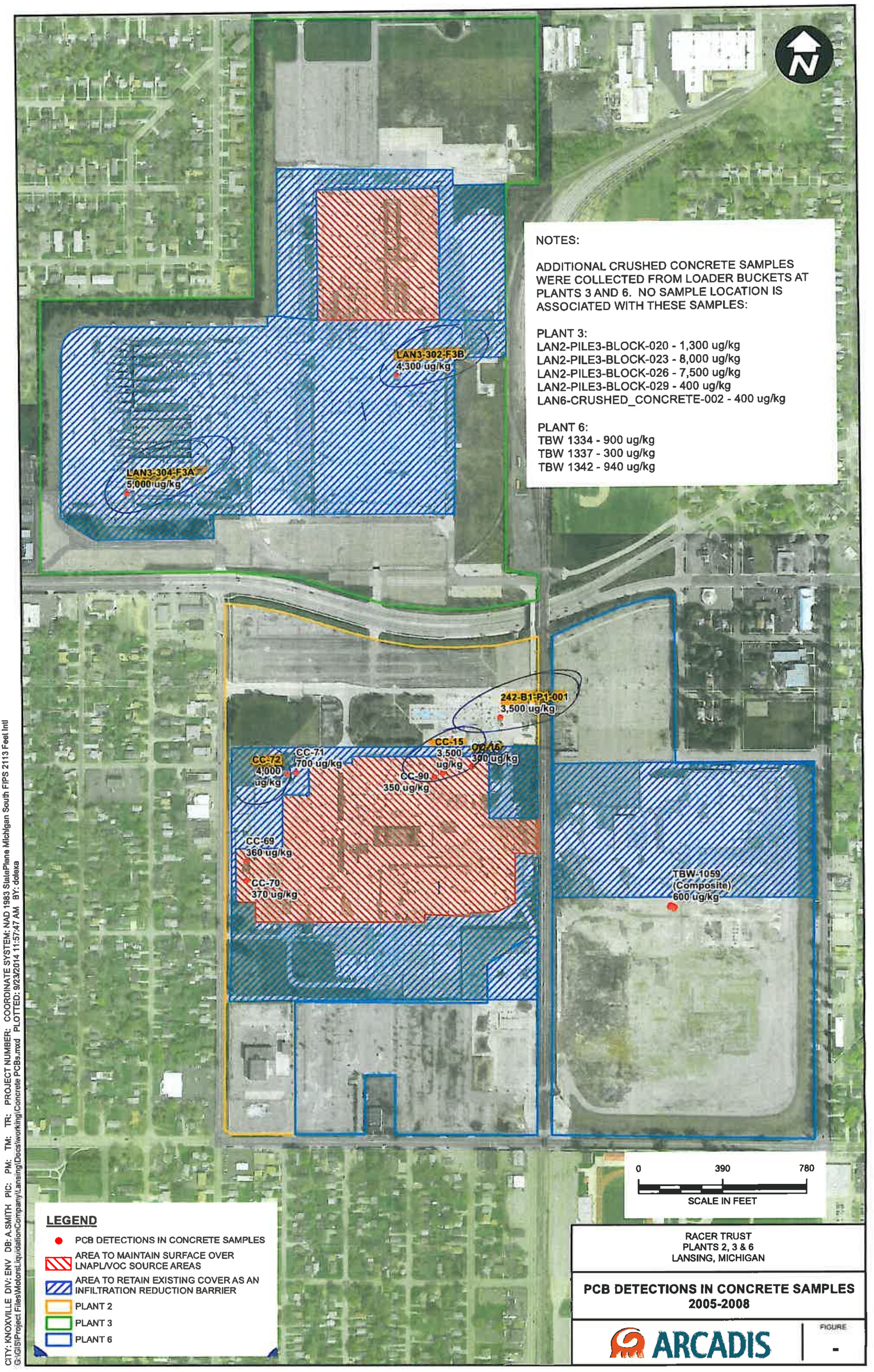
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	10/3/14	1330

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

NOTES: TEMP. ON ARRIVAL 14.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12



CITY: KNOXVILLE DIV: ENV DB: A.SMITH PIC: PM: TM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\GIS\Project Files\MotorsLiquidationCompany\Lansing\Docs\working\Concrete PCBs.mxd PLOTTED: 9/23/2014 11:57:47 AM BY: doleka

917-383 5432 Kelly w/NOA DCP from 2017
-21-327.

RACER Lansing - Concrete Samples with detections of PCBs

Plant Sampled	Description	Sample ID	Result (Total PCBs, ug/Kg)	Location Building # Column/Bay	Report Providing Description	Discussion of Sample Handling	Additonal Information
3	concrete core sample collected below areas with PCB impacted wood block flooring	LAN3-302-F3B	4,300 4.3 ppm	building 302	Deactivation Report	Powerwashed floors and removed wastewater from site	No documentation of wastewater removal (e.g. waste manifest)
3	concrete core sample collected below areas with PCB impacted wood block flooring	LAN3-304-F3A	5,000 5.0 ppm	building 304 bay b9	field notes Jan. 14, 2010	Concrete marked for removal, but no verification concrete was removed	No documentation stating sample area was addressed
2	concrete floor drill	242-B1-P1-001	3,500 3.5	building 242 bay B1 floor drain	Complete Final PCB Report 2006	Based on the P1 ring analytical results, the surrounding concrete is not impacted with PCBs	No documentation stating sample area was addressed
2	concrete core	CC15	3,500 3.5 ppm	building 207	LAN-2&3-RT	Cement originally planned to be crushed and used as fill by contractor; no confirmation of action. Concrete is still in place?	No documentation referencing disposal of impacted material
	concrete core	CC16	300	building 208			
	concrete core	CC69	360	building 240			
	concrete core	CC70	370	building 240			
	concrete core	CC71	700	building 227			
	concrete core	CC72	4,000 4.0 ppm	building 234			
	concrete core	CC90	350	building 207			
6	concrete flooring within drum storage room	TBW-1059	600	Building 22	Plant 6 Brick and Block Characterization Memo	Materials were segregated for off-site disposal by the Site's demolition conctractor, no confirmation of action	No documentation referencing disposal of impacted material
2	crushed concrete	LAN2-PILE3-BLOCK-020	1,300	Backfill to be used from Plant 2	Plant 2 Brick & Block Characterization Memo/field notes Nov. 29 2012	ARCADIS recommended that all brick and block material from Pile 3 (stored material on Plant 3, from Plant 2) be transported off-site for disposal	No documentation referencing disposal of impacted material
	crushed concrete	LAN2-PILE3-BLOCK-023	8,000				
	crushed concrete	LAN2-PILE3-BLOCK-026	7,500				
	crushed concrete	LAN2-PILE3-BLOCK-029	400				
6	crushed concrete later used as backfill	LAN6-CRUSHED_CONCRETE-002	400	Backfill to be used from Plant 6	field notes Nov. 29 2012	Crushed concrete stored from Plant 6 , stored on Plant 3. Piles from Plant 3 have been removed	Unclear if this was used as backfill
6	crushed concrete from loader buckets	TBW 1334	900	Loader bucket	Plant 6 Brick and Block Characterization Memo	Materials were segregated for off-site disposal by the Site's demolition contractor, no confirmation of action	No documentation referencing disposal of impacted material
		TBW 1337	300				
		TBW 1342	940				

- Site walk- determine previous sample locations + current conditions
- delineate Bulk Concrete contamination w/ core samples. no GRID → just verify/delineate
- determine area for wipe samples based upon the bulk contamination area previously completed
- Complete concrete wipe samples over the bulk contamination area to determine if Risk present Justifying remediation.
- Complete concrete wipe samples over the bulk contamination area to determine if Risk present Justifying remediation.
- Implement Deed Restriction IF PCB concentrations are >10 ppm but < 10.0 ppm (High Occupancy)
- Bulk + Wipe to determine options

Appendix B

PM ENVIRONMENTAL Environmental & Engineering Services

Analytical Laboratory Report

Report ID: S63897.01(01)
Generated on 12/15/2014

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63897.01-S63897.42
Project: Racer Plant 2 & 3 01-4172-5
Collected Date: 12/04/2014 - 12/05/2014
Submitted Date/Time: 12/08/2014 15:40
Sampled by: D Spencer/R Hikade
P.O. #: 01-4172-5

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (42 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63897.01	Plant-2-001-(A)	Solid	12/04/2014 09:05
S63897.02	Plant-2-001-(B)	Solid	12/04/2014 09:55
S63897.03	Plant-2-001-(C)	Solid	12/04/2014 09:35
S63897.04	Plant-2-001-(D)	Solid	12/04/2014 10:20
S63897.05	Plant-2-001-(E)	Solid	12/04/2014 10:35
S63897.06	Plant-2-001-(F)	Solid	12/04/2014 09:20
S63897.07	Plant-2-001-(G)	Solid	12/04/2014 10:45
S63897.08	Plant-2-001-(H)	Solid	12/04/2014 11:00
S63897.09	Plant-2-001-(I)	Solid	12/04/2014 11:10
S63897.10	Plant-2-CC15-(A)	Solid	12/04/2014 14:15
S63897.11	Plant-2-CC15-(B)	Solid	12/04/2014 14:25
S63897.12	Plant-2-CC15-(C)	Solid	12/04/2014 14:35
S63897.13	Plant-2-CC15-(D)	Solid	12/04/2014 14:45
S63897.14	Plant-2-CC15-(E)	Solid	12/04/2014 14:55
S63897.15	Plant-2-CC15-(F)	Solid	12/04/2014 15:05
S63897.16	Plant-2-CC15-(G)	Solid	12/04/2014 15:15
S63897.17	Plant-2-CC15-(H)	Solid	12/04/2014 15:25
S63897.18	Plant-2-CC15-(I)	Solid	12/04/2014 15:30
S63897.19	Plant-2-CC72-(B)	Solid	12/04/2014 16:00
S63897.20	Plant-2-CC72-(C)	Solid	12/05/2014 09:45
S63897.21	Plant-2-CC72-(E)	Solid	12/04/2014 16:05
S63897.22	Plant-2-CC72-(F)	Solid	12/05/2014 09:35
S63897.23	Plant-2-CC72-(G)	Solid	12/04/2014 16:20
S63897.24	Plant-2-CC72-(H)	Solid	12/05/2014 09:55
S63897.25	Plant-3-F3A-(A)	Solid	12/05/2014 10:40
S63897.26	Plant-3-F3A-(B)	Solid	12/05/2014 10:50
S63897.27	Plant-3-F3A-(C)	Solid	12/05/2014 10:55
S63897.28	Plant-3-F3A-(D)	Solid	12/05/2014 11:00
S63897.29	Plant-3-F3A-(E)	Solid	12/05/2014 11:10
S63897.30	Plant-3-F3A-(F)	Solid	12/05/2014 11:20
S63897.31	Plant-3-F3A-(G)	Solid	12/05/2014 11:35
S63897.32	Plant-3-F3A-(H)	Solid	12/05/2014 11:30
S63897.33	Plant-3-F3A-(I)	Solid	12/05/2014 11:45
S63897.34	Plant-3-F3B-(A)	Solid	12/05/2014 13:10
S63897.35	Plant-3-F3B-(B)	Solid	12/05/2014 13:20
S63897.36	Plant-3-F3B-(C)	Solid	12/05/2014 13:35
S63897.37	Plant-3-F3B-(D)	Solid	12/05/2014 13:40
S63897.38	Plant-3-F3B-(E)	Solid	12/05/2014 13:25
S63897.39	Plant-3-F3B-(F)	Solid	12/05/2014 13:55
S63897.40	Plant-3-F3B-(G)	Solid	12/05/2014 13:45
S63897.41	Plant-3-F3B-(H)	Solid	12/05/2014 13:50
S63897.42	Plant-3-F3B-(I)	Solid	12/05/2014 14:00

Analytical Laboratory Report

Lab Sample ID: S63897.01
Sample Tag: Plant-2-001-(A)
Collected Date/Time: 12/04/2014 09:05
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.02
Sample Tag: Plant-2-001-(B)
Collected Date/Time: 12/04/2014 09:55
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.03
Sample Tag: Plant-2-001-(C)
Collected Date/Time: 12/04/2014 09:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.04
Sample Tag: Plant-2-001-(D)
Collected Date/Time: 12/04/2014 10:20
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.05
Sample Tag: Plant-2-001-(E)
Collected Date/Time: 12/04/2014 10:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	12672-29-6	
PCB-1254	700	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.06
Sample Tag: Plant-2-001-(F)
Collected Date/Time: 12/04/2014 09:20
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.07
Sample Tag: Plant-2-001-(G)
Collected Date/Time: 12/04/2014 10:45
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	12672-29-6	
PCB-1254	240	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.08
Sample Tag: Plant-2-001-(H)
Collected Date/Time: 12/04/2014 11:00
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.09
Sample Tag: Plant-2-001-(I)
Collected Date/Time: 12/04/2014 11:10
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	12674-11-2	Y
PCB-1242	1,700	ug/kg	500	SW8082A	12/11/14 16:05	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63897.10
Sample Tag: Plant-2-CC15-(A)
Collected Date/Time: 12/04/2014 14:15
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.11
Sample Tag: Plant-2-CC15-(B)
Collected Date/Time: 12/04/2014 14:25
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.12
Sample Tag: Plant-2-CC15-(C)
Collected Date/Time: 12/04/2014 14:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.13
Sample Tag: Plant-2-CC15-(D)
Collected Date/Time: 12/04/2014 14:45
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.14
Sample Tag: Plant-2-CC15-(E)
Collected Date/Time: 12/04/2014 14:55
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.15
Sample Tag: Plant-2-CC15-(F)
Collected Date/Time: 12/04/2014 15:05
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.16
Sample Tag: Plant-2-CC15-(G)
Collected Date/Time: 12/04/2014 15:15
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.17
Sample Tag: Plant-2-CC15-(H)
Collected Date/Time: 12/04/2014 15:25
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.18
Sample Tag: Plant-2-CC15-(I)
Collected Date/Time: 12/04/2014 15:30
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.19
Sample Tag: Plant-2-CC72-(B)
Collected Date/Time: 12/04/2014 16:00
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.20
Sample Tag: Plant-2-CC72-(C)
Collected Date/Time: 12/05/2014 09:45
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.21
Sample Tag: Plant-2-CC72-(E)
Collected Date/Time: 12/04/2014 16:05
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.22
Sample Tag: Plant-2-CC72-(F)
Collected Date/Time: 12/05/2014 09:35
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.23
Sample Tag: Plant-2-CC72-(G)
Collected Date/Time: 12/04/2014 16:20
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.24
Sample Tag: Plant-2-CC72-(H)
Collected Date/Time: 12/05/2014 09:55
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.25
Sample Tag: Plant-3-F3A-(A)
Collected Date/Time: 12/05/2014 10:40
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.26
Sample Tag: Plant-3-F3A-(B)
Collected Date/Time: 12/05/2014 10:50
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	12672-29-6	
PCB-1254	1,200	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.27
Sample Tag: Plant-3-F3A-(C)
Collected Date/Time: 12/05/2014 10:55
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.28
Sample Tag: Plant-3-F3A-(D)
Collected Date/Time: 12/05/2014 11:00
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.29
Sample Tag: Plant-3-F3A-(E)
Collected Date/Time: 12/05/2014 11:10
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	12672-29-6	
PCB-1254	250	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.30
Sample Tag: Plant-3-F3A-(F)
Collected Date/Time: 12/05/2014 11:20
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.31
Sample Tag: Plant-3-F3A-(G)
Collected Date/Time: 12/05/2014 11:35
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	12672-29-6	
PCB-1254	1,500	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.32
Sample Tag: Plant-3-F3A-(H)
Collected Date/Time: 12/05/2014 11:30
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	12672-29-6	
PCB-1254	220	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.33
Sample Tag: Plant-3-F3A-(I)
Collected Date/Time: 12/05/2014 11:45
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.34
Sample Tag: Plant-3-F3B-(A)
Collected Date/Time: 12/05/2014 13:10
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.35
Sample Tag: Plant-3-F3B-(B)
Collected Date/Time: 12/05/2014 13:20
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.36
Sample Tag: Plant-3-F3B-(C)
Collected Date/Time: 12/05/2014 13:35
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.37
Sample Tag: Plant-3-F3B-(D)
Collected Date/Time: 12/05/2014 13:40
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.38
Sample Tag: Plant-3-F3B-(E)
Collected Date/Time: 12/05/2014 13:25
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.39
Sample Tag: Plant-3-F3B-(F)
Collected Date/Time: 12/05/2014 13:55
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.40
Sample Tag: Plant-3-F3B-(G)
Collected Date/Time: 12/05/2014 13:45
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.41
Sample Tag: Plant-3-F3B-(H)
Collected Date/Time: 12/05/2014 13:50
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.42
Sample Tag: Plant-3-F3B-(I)
Collected Date/Time: 12/05/2014 14:00
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11096-82-5	

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C.O.C. PAGE # 1 OF 4

84820

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☑ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	*
63897.01	12/4/14	0905	Plant-2-001-(A)	SD	1	1							X	*Concrete powder samples*
.02		0955	Plant-2-001-(B)		1	1							X	
.03		0935	Plant-2-001-(C)		1	1							X	
.04		1020	Plant-2-001-(D)		1	1							X	
.05		1035	Plant-2-001-(E)		1	1							X	
.06		0920	Plant-2-001-(F)		1	1							X	
.07		1045	Plant-2-001-(G)		1	1							X	
.08		1100	Plant-2-001-(H)		1	1							X	
.09		1110	Plant-2-001-(I)		1	1							X	
.10		1415	Plant-2-CC15-(A)		1	1							X	
.11		1425	Plant-2-CC15-(B)		1	1							X	
.12		1435	Plant-2-CC15-(C)		1	1							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM Env	☑ Sampler	DATE 12/5/14	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage		DATE 12/5/14	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE 12/8/14	TIME 1500

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/8/14	TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michelle Dunkman	DATE 12/08/14	TIME 1540

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 2 OF 4

84821

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

☑ SAME

CONTACT NAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63887.13	12/4/14	1445	Plant-2-CC15-(D)	SD	1	1							X
.14	12/4/14	1455	Plant-2-CC15-(E)		1	1							X
.15	12/4/14	1505	Plant-2-CC15-(F)		1	1							X
.16	12/4/14	1515	Plant-2-CC15-(G)		1	1							X
.17	12/4/14	1525	Plant-2-CC15-(H)		1	1							X
.18	12/4/14	1530	Plant-2-CC15-(I)		1	1							X
	12/4/14		Plant-2-CC72-(A)		1	1							X
.19	12/4/14	1600	Plant-2-CC72-(B)		1	1							X
.20	12/5/14	0945	Plant-2-CC72-(C)		1	1							X
	12/4/14		Plant-2-CC72-(D)		1	1							X
.21	12/4/14	1605	Plant-2-CC72-(E)		1	1							X
.22	12/5/14	0935	Plant-2-CC72-(F)		1	1							X

☑ Sampler

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM ENV	12/5/14	1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	12/5/14	1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM/Storage		
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature] / Intel	12-8-14	1500

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature] / Intel	12-8-14	1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michelle Dunkman	12/08/14	1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 4

84822

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☑ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikad

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63897.23	12/4/14	1620	Plant-2-CC77-(G)	SD	1	1							X
.24	12/5/14	0955	Plant-2-CC72-(H)		1	1							X
.25		1040	Plant-3-F3A-(A)		1	1							X
.26		1050	Plant-3-F3A-(B)		1	1							X
.27		1055	Plant-3-F3A-(C)		1	1							X
.28		1100	Plant-3-F3A-(D)		1	1							X
.29		1110	Plant-3-F3A-(E)		1	1							X
.30		1120	Plant-3-F3A-(F)		1	1							X
.31		1135	Plant-3-F3A-(G)		1	1							X
.32		1730	Plant-3-F3A-(H)		1	1							X
.33		1145	Plant-3-F3A-(I)		1	1							X
.34		1310	Plant-3-F3B-(A)		1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Env. ☐ Sampler	DATE 12/5/14	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 12/5/14	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	MLT	DATE 12-8-14	TIME 820

RELINQUISHED BY: SIGNATURE/ORGANIZATION	MLT	DATE 12-8-14	TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 12/08/14	TIME 1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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84823

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Raad
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 2+3 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63897.35	12/5/14	1320	Plant-3-F3B-(B)	SD	1	1							X
.36		1335	Plant-3-F3B-(C)		1	1							X
.37		1340	Plant-3-F3B-(D)		1	1							X
.38		1325	Plant-3-F3B-(E)		1	1							X
.39		1355	Plant-3-F3B-(F)		1	1							X
.40		1345	Plant-3-F3B-(G)		1	1							X
.41		1350	Plant-3-F3B-(H)		1	1							X
.42		1400	Plant-3-F3B-(I)		1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Doug Spencer / PM Env. ☑ Sampler DATE 12/5/14 TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION: PM Storage DATE 12/5/14 TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION: PM Storage DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 12-5-14 TIME 1500

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE 12-8-14 TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION: Michelle Dunkman DATE 12/08/14 TIME 1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S65061.01(01)
Generated on 04/01/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65061.01-S65061.06
Project: RACER Plant-2 / 01-4173-6
Collected Date: 03/30/2015
Submitted Date/Time: 03/31/2015 15:20
Sampled by: Doug Spencer
P.O. #: 01-4173-6

Table of Contents

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Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65061.01	Plant-2-001 (J)	Solid	03/30/2015 09:55
S65061.02	Plant-2-001 (K)	Solid	03/30/2015 10:05
S65061.03	Plant-2-001 (L)	Solid	03/30/2015 10:15
S65061.04	Plant-2-001 (M)	Solid	03/30/2015 10:25
S65061.05	Plant-2-001 (N)	Solid	03/30/2015 10:35
S65061.06	Plant-2-001 (O)	Solid	03/30/2015 10:45

Analytical Laboratory Report

Lab Sample ID: S65061.01
Sample Tag: Plant-2-001 (J)
Collected Date/Time: 03/30/2015 09:55
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.02
Sample Tag: Plant-2-001 (K)
Collected Date/Time: 03/30/2015 10:05
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.03
Sample Tag: Plant-2-001 (L)
Collected Date/Time: 03/30/2015 10:15
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.04
Sample Tag: Plant-2-001 (M)
Collected Date/Time: 03/30/2015 10:25
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.05
Sample Tag: Plant-2-001 (N)
Collected Date/Time: 03/30/2015 10:35
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.06
Sample Tag: Plant-2-001 (O)
Collected Date/Time: 03/30/2015 10:45
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11096-82-5	

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C.O.C. PAGE # 1 OF 1

84061

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: (517) 321-3331 FAX NO: (877) 884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER PLANT-2/01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
650061.01	3/30/15	09:55	Plant-2-001 (J)	SD	1	1							X
.02		10:05	Plant-2-001 (K)	SD	1	1							X
.03		10:15	Plant-2-001 (L)	SD	1	1							X
.04		10:25	Plant-2-001 (M)	SD	1	1							X
.05		10:35	Plant-2-001 (N)	SD	1	1							X
.06		10:45	Plant-2-001 (O)	SD	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM Env. ☐ Sampler	DATE 3/30/15	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/30/15	TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA	DATE 3/31/15	TIME 15:20
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 03/31/15	TIME 1520

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/31/15	TIME 12:45
RECEIVED BY: SIGNATURE/ORGANIZATION	RMA	DATE 3/31/15	TIME 12:45

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

NOTES: TEMP. ON ARRIVAL 15.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S65062.01(01)
Generated on 04/02/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65062.01-S65062.07
Project: RACER Plant 3 / 01-4173-6
Collected Date: 03/30/2015
Submitted Date/Time: 03/31/2015 15:20
Sampled by: Doug Spencer
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65062.01	Plant-3-F3A (J)	Solid	03/30/2015 11:15
S65062.02	Plant-3-F3A (K)	Solid	03/30/2015 11:25
S65062.03	Plant-3-F3A (L)	Solid	03/30/2015 11:35
S65062.04	Plant-3-F3A (M)	Solid	03/30/2015 11:45
S65062.05	Plant-3-F3A (N)	Solid	03/30/2015 11:55
S65062.06	Plant-3-F3A (O)	Solid	03/30/2015 12:05
S65062.07	Plant-3-F3A (P)	Solid	03/30/2015 12:15

Analytical Laboratory Report

Lab Sample ID: S65062.01
Sample Tag: Plant-3-F3A (J)
Collected Date/Time: 03/30/2015 11:15
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.02
Sample Tag: Plant-3-F3A (K)
Collected Date/Time: 03/30/2015 11:25
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.03
Sample Tag: Plant-3-F3A (L)
Collected Date/Time: 03/30/2015 11:35
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	12672-29-6	Y
PCB-1254	1,800	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S65062.04
Sample Tag: Plant-3-F3A (M)
Collected Date/Time: 03/30/2015 11:45
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	12672-29-6	Y
PCB-1254	3,800	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S65062.05
Sample Tag: Plant-3-F3A (N)
Collected Date/Time: 03/30/2015 11:55
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.06
Sample Tag: Plant-3-F3A (O)
Collected Date/Time: 03/30/2015 12:05
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.07
Sample Tag: Plant-3-F3A (P)
Collected Date/Time: 03/30/2015 12:15
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11096-82-5	

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C.O.C. PAGE # 1 OF 1

84060

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: (517) 321-3331 FAX NO.: (877) 884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER PLANT 3/01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
65062.01	3/30/15	11:15	Plant-3-F3A (J)	SD	1	1							X
.02		11:25	Plant-3-F3A (K)	SD	1	1							X
.03		11:35	Plant-3-F3A (L)	SD	1	1							X
.04		11:45	Plant-3-F3A (M)	SD	1	1							X
.05		11:55	Plant-3-F3A (N)	SD	1	1							X
.06		12:05	Plant-3-F3A (O)	SD	1	1							X
.07		12:15	Plant-3-F3A (P)	SD	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer/PM ENV. ☑ Sampler	DATE 3/30/15	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/30/15	TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 3/31/15	TIME 15:30
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 03/31/15	TIME 1520

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/31/15	TIME 12:45
RECEIVED BY: SIGNATURE/ORGANIZATION	RMS	DATE 3/31/15	TIME 12:45

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

NOTES: TEMP. ON ARRIVAL 15.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Appendix B
(Clarifier)

PM ENVIRONMENTAL Environmental & Engineering Services

Analytical Laboratory Report

Report ID: S69058.01(01)
Generated on 10/28/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S69058.01-S69058.02
Project: 01-4173-6
Collected Date: 10/12/2015
Submitted Date/Time: 10/22/2015 12:25
Sampled by: RH
P.O. #: 01-4173-6

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Laboratory Certifications (Page 3)
Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
SM2540B	Standard Method 2540 B 20th Edition
SM4500-S2 D	Standard Method 4450 S2 DC 20th Edition
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S69058.01	MH-1	Soil	10/12/15 00:01
S69058.02	MH-3	Soil	10/12/15 00:01

Analytical Laboratory Report

Lab Sample ID: S69058.01
Sample Tag: MH-1
Collected Date/Time: 10/12/2015 00:01
Matrix: Soil
COC Reference: 90778

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	10/26/15 11:15	PLB		
Mercury Digestion	Completed			SW7471B	10/27/15 13:00	RGS		
Metal Digestion	Completed			SW3015A	10/27/15 09:00	CCM		
TCLP Zero Headspace Ext.	Completed			SW1311	10/26/15 17:30	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/27/15 13:36	EMR		
TCLP Extraction								
Inital Sample pH	8.55			SW1311	10/26/15 17:30-10/27	WAR		
pH after 3.5 ml HCl	2.83			SW1311	10/26/15 17:30-10/27	WAR		
% Solids	100			SW1311	10/26/15 17:30-10/27	WAR		
Sample Used g	100			SW1311	10/26/15 17:30-10/27	WAR		
Final Volume mL	2,000			SW1311	10/26/15 17:30-10/27	WAR		
TCLP Extraction Fluid	1			SW1311	10/26/15 17:30-10/27	WAR		
Final Extract pH	6.50			SW1311	10/26/15 17:30-10/27	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/22/15 21:16	PL		
pH/ Corrosivity	7.93	STD Units	0.1	SW9045D	10/27/15 12:18	ASB	2-12.5	
Reactive Cyanide	Not detected	mg/kg	0.2	E335.4/SM4500-CN	10/27/15 11:26	JDP		F
Reactive Sulfide	Not detected	mg/kg	45	SM4500-S2 D	10/27/15 09:52	JDP		F1
Total Solids	74	%	1	SM2540B	10/22/15 21:00	WAR		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/27/15 12:00	CCM	5.0	
Barium, TCLP	0.28	mg/L	0.05	SW6020A	10/27/15 12:00	CCM	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/27/15 11:58	CCM	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/27/15 11:58	CCM	5.0	
Lead, TCLP	Not detected	mg/L	0.03	SW6020A	10/27/15 11:58	CCM	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/27/15 16:00	RGS	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/27/15 11:58	CCM	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/27/15 11:58	CCM	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1242	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1221	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1232	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1248	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1254	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		
PCB-1260	Not detected	ug/kg	330	SW8082A	10/26/15 16:26	JAN		

F-Analysis run outside of holding time
1-* Total Sulfide = 44 mg/kg

Lab Sample ID: S69058.01 (continued)
Sample Tag: MH-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:23	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:23	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:23	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:23	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:23	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/27/15 20:23	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/27/15 20:23	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/27/15 20:23	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/27/15 20:23	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/27/15 20:23	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/27/15 20:23	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/27/15 12:59	LBR	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/27/15 12:59	LBR	200	

Analytical Laboratory Report

Lab Sample ID: S69058.02
Sample Tag: MH-3
Collected Date/Time: 10/12/2015 00:01
Matrix: Soil
COC Reference: 90778

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	10/26/15 11:15	PLB		
Mercury Digestion	Completed			SW7471B	10/27/15 13:00	RGS		
Metal Digestion	Completed			SW3015A	10/27/15 09:00	CCM		
TCLP Zero Headspace Ext.	Completed			SW1311	10/26/15 17:30	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/27/15 13:36	EMR		
TCLP Extraction								
Inital Sample pH	9.43			SW1311	10/26/15 17:30-10/27	WAR		
pH after 3.5 ml HCl	2.39			SW1311	10/26/15 17:30-10/27	WAR		
% Solids	100			SW1311	10/26/15 17:30-10/27	WAR		
Sample Used g	100			SW1311	10/26/15 17:30-10/27	WAR		
Final Volume mL	2,000			SW1311	10/26/15 17:30-10/27	WAR		
TCLP Extraction Fluid	1			SW1311	10/26/15 17:30-10/27	WAR		
Final Extract pH	6.35			SW1311	10/26/15 17:30-10/27	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/22/15 21:16	PL		
pH/ Corrosivity	8.11	STD Units	0.1	SW9045D	10/27/15 12:35	ASB	2-12.5	
Reactive Cyanide	Not detected	mg/kg	0.1	E335.4/SM4500-CN	10/27/15 11:28	JDP		F
Reactive Sulfide	Not detected	mg/kg	0.4	SM4500-S2 D	10/27/15 09:54	JDP		F
Total Solids	89	%	1	SM2540B	10/22/15 21:00	WAR		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/27/15 12:02	CCM	5.0	
Barium, TCLP	0.19	mg/L	0.05	SW6020A	10/27/15 12:02	CCM	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/27/15 12:02	CCM	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/27/15 12:02	CCM	5.0	
Lead, TCLP	0.80	mg/L	0.03	SW6020A	10/27/15 12:02	CCM	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/27/15 16:04	RGS	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/27/15 12:02	CCM	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/27/15 12:02	CCM	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1242	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1221	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1232	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1248	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1254	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		
PCB-1260	Not detected	ug/kg	330	SW8082A	10/26/15 16:37	JAN		

F-Analysis run outside of holding time

Lab Sample ID: S69058.02 (continued)
Sample Tag: MH-3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:44	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:44	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:44	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:44	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/27/15 20:44	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/27/15 20:44	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/27/15 20:44	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/27/15 20:44	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/27/15 20:44	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/27/15 20:44	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/27/15 20:44	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/27/15 13:19	LBR	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/27/15 13:19	LBR	200	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

90778

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Env.
ADDRESS: 3340 Ranger Road
CITY: Canton STATE: MI ZIP CODE: 48906
PHONE NO.: 321 3331 FAX NO.: — P.O. NO.: 01-4173-6
E-MAIL ADDRESS: armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: KH

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCLP VOC	TCLP SVOC	TCLP RCRA 8	RCI/RS	pH	Flash	PCB			
69058.01	10/12		MH-1	S	2	2							X	X	X	X	X	X	X			
.02	10/12		MH-3	S	2	2							X	X	X	X	X	X	X			

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Sampler	DATE 10/21/15	TIME 1600
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 10/22/	TIME 1157
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/22/	TIME 1157

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10-22-15	TIME 1225
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 6.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S69317.01(01)
Generated on 11/06/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S69317.01-S69317.09
Project: 01-4173-6 / Racer P.3
Collected Date: 11/04/2015
Submitted Date/Time: 11/05/2015 14:08
Sampled by: Robert Hikade
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
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'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S69317.01	Clarifier (A)	Solid	11/04/15 14:50
S69317.02	Clarifier (B)	Solid	11/04/15 14:45
S69317.03	Clarifier (C)	Solid	11/04/15 14:40
S69317.04	Clarifier (D)	Solid	11/04/15 14:35
S69317.05	Clarifier (E)	Solid	11/04/15 14:30
S69317.06	Clarifier (F)	Solid	11/04/15 14:25
S69317.07	Clarifier (G)	Solid	11/04/15 14:20
S69317.08	Clarifier (H)	Solid	11/04/15 14:15
S69317.09	Clarifier (I)	Solid	11/04/15 14:10

Analytical Laboratory Report

Lab Sample ID: S69317.01
Sample Tag: Clarifier (A)
Collected Date/Time: 11/04/2015 14:50
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 13:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.02
Sample Tag: Clarifier (B)
Collected Date/Time: 11/04/2015 14:45
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 13:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.03
Sample Tag: Clarifier (C)
Collected Date/Time: 11/04/2015 14:40
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 13:53	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.04
Sample Tag: Clarifier (D)
Collected Date/Time: 11/04/2015 14:35
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 14:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.05
Sample Tag: Clarifier (E)
Collected Date/Time: 11/04/2015 14:30
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	12674-11-2	Y
PCB-1242	2,100	ug/kg	500	SW8082A	11/06/15 14:50	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	11/06/15 14:50	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S69317.06
Sample Tag: Clarifier (F)
Collected Date/Time: 11/04/2015 14:25
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	12674-11-2	
PCB-1242	330	ug/kg	330	SW8082A	11/06/15 15:00	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 15:00	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.07
Sample Tag: Clarifier (G)
Collected Date/Time: 11/04/2015 14:20
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 15:11	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.08
Sample Tag: Clarifier (H)
Collected Date/Time: 11/04/2015 14:15
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 15:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69317.09
Sample Tag: Clarifier (I)
Collected Date/Time: 11/04/2015 14:10
Matrix: Solid
COC Reference: 89523

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/06/15 10:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/06/15 15:36	JAN	11096-82-5	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

89523

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3340 RANGER DR
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX: 517.394.6775 P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.COM ☒ SAME
COMPANY:
ADDRESS:
CITY: C = CONCRETE. STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-41736 RACER P.3
SAMPLER(S) - PLEASE PRINT/SIGN NAME: ROBERT HIRANE, PMA

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PLB'S w/ clean ups
93717.01	11/4	1450	CLARIFIER (A)	C	1	1							X
.02		1445	CLARIFIER (B)		1	1							X
.03		1440	CLARIFIER (C)		1	1							X
.04		1435	CLARIFIER (D)		1	1							X
.05		1430	CLARIFIER (E)		1	1							X
.06		1425	CLARIFIER (F)		1	1							X
.07		1420	CLARIFIER (G)		1	1							X
.08		1415	CLARIFIER (H)		1	1							X
.09		1410	CLARIFIER (I)		1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION ☐ Sampler DATE 11/4/15 TIME 1600
RECEIVED BY: SIGNATURE/ORGANIZATION DATE 11-5 TIME 1315
RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE 11-5-15 TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE 11-5-15 TIME 14:08
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S69841.01(01)
Generated on 11/23/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S69841.01-S69841.05
Project: 01-4173-6 (Clarifier)
Collected Date: 11/20/2015
Submitted Date/Time: 11/20/2015 12:00
Sampled by: Robert Hikade
P.O. #: 01-4173-6

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S69841.01	E-0	Solid	11/20/15 09:50
S69841.02	E-1	Solid	11/20/15 09:45
S69841.03	E-2	Solid	11/20/15 09:29
S69841.04	E-3	Solid	11/20/15 09:20
S69841.05	E-4	Solid	11/20/15 09:35

Analytical Laboratory Report

Lab Sample ID: S69841.01
Sample Tag: E-0
Collected Date/Time: 11/20/2015 09:50
Matrix: Solid
COC Reference: 89521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/15 13:52	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	12674-11-2	
PCB-1242	1,200	ug/kg	330	SW8082A	11/20/15 17:32	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/15 17:32	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69841.02
Sample Tag: E-1
Collected Date/Time: 11/20/2015 09:45
Matrix: Solid
COC Reference: 89521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/15 13:52	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	12674-11-2	
PCB-1242	900	ug/kg	330	SW8082A	11/20/15 17:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/15 17:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69841.03
Sample Tag: E-2
Collected Date/Time: 11/20/2015 09:29
Matrix: Solid
COC Reference: 89521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/15 13:52	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	12674-11-2	
PCB-1242	400	ug/kg	330	SW8082A	11/20/15 17:53	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/15 17:53	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69841.04
Sample Tag: E-3
Collected Date/Time: 11/20/2015 09:20
Matrix: Solid
COC Reference: 89521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/15 13:52	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/15 18:03	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S69841.05
Sample Tag: E-4
Collected Date/Time: 11/20/2015 09:35
Matrix: Solid
COC Reference: 89521

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	11/20/15 13:52	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	12674-11-2	
PCB-1242	1,200	ug/kg	330	SW8082A	11/20/15 18:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	11/20/15 18:14	JAN	11096-82-5	

Merit Laboratories, Inc.
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C.O.C. PAGE # 1 OF 1

89521

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3346 RANGER RD
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: 877.884.6775 P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.COM ☒ SAME
COMPANY:
ADDRESS: C = CONCRETE (DESTRUCTIVE)
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-6 (CLARIFIER)
SAMPLER(S) - PLEASE PRINT/SIGN NAME: ROBERT HILLADE

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER RUSH

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PLBS
69841.01	11/20	0950	E-0	C	1	1							X
.02		0945	E-1	C	1	1							X
.03		0929	E-2	C	1	1							X
.04		0920	E-3	C	1	1							X
.05	↓	0935	E-4	C	1	1							X

			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PMA	☐ Sampler	11/20	1100
RECEIVED BY: SIGNATURE/ORGANIZATION	PM STORAGE		11/20	1100
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage		11/20	1100
RECEIVED BY: SIGNATURE/ORGANIZATION	Isaac Mc		11/20	1100

			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Isaac Mc			
RECEIVED BY: SIGNATURE/ORGANIZATION	John Jr		11-20-15	12:06

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

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S63036.01(01)
Generated on 10/17/2014

Report to

Attention: Sean Jeric
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2250 FAX: 248-994-2241
Email: sean.jeric@arcadis-us.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63036.01-S63036.04
Project: RACER Lansing B0064479
Collected Date: 10/03/2014
Submitted Date/Time: 10/03/2014 13:30
Sampled by: Filipiak/Cobern
P.O. #: B0064479

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
335.4/4500-CN-E	
4500-S2 D	
ASTMD3278 - 96	ASTM Method D3278 - 96(2011)
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
E608	EPA Method 608
N/A	Not Applicable
SM2540B	Standard Method 2540 B 20th Edition
SM4500-H+ B	Standard Method 4500 H + B 20th Edition
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9030B	SW 846 Method 9030B Revision 2 December 1996
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63036.01	Clarifier_100314	Liquid	10/03/2014 10:00
S63036.02	Clarifier_100314	Sludge	10/03/2014 11:00
S63036.03	Wost_100314	Liquid	10/03/2014 12:00
S63036.04	Wost_100314	Sludge	10/03/2014 12:10

Analytical Laboratory Report

Lab Sample ID: S63036.01
Sample Tag: Clarifier_100314
Collected Date/Time: 10/03/2014 10:00
Matrix: Liquid
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	14.8	IR
3	40ml Glass	HCL	Yes	14.8	IR
4	1L Amber	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
BNA Extraction	Completed			SW3510C	10/07/14 13:40	EMR		
Extraction, PCB	Completed			SW3510C	10/06/14 10:00	RGS		
Mercury Digestion	Completed			E245.1	10/07/14 10:50	CCM		
Metal Digestion	Completed			SW3015A	10/09/14 13:30	JRH		
pH check for VOCs	<2	STD Units		N/A	10/08/14 10:48	LBR		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	10/07/14 12:00	RGS	<140	
pH	7.89	STD Units	0.01	SM4500-H+ B	10/03/14 15:10	WAR	12.5	
Reactive Cyanide	Not detected	mg/L	0.5	335.4/4500-CN-E	10/13/14 11:40	JDP		
Reactive Sulfide	Not detected	mg/L	2.0	4500-S2 D	10/13/14 09:38	JDP		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	10/09/14 15:19	JRH		
Barium	0.069	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Cadmium	Not detected	mg/L	0.0005	E200.8	10/09/14 15:19	JRH		
Chromium	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Copper	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Lead	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Mercury	Not detected	mg/L	0.0002	E245.1	10/07/14 14:45	CCM		
Selenium	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Silver	Not detected	mg/L	0.0005	E200.8	10/09/14 15:19	JRH		
Zinc	Not detected	mg/L	0.005	E200.8	10/09/14 15:19	JRH		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1221	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1232	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1242	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1248	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1254	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB-1260	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
PCB, Total	Not detected	ug/L	0.1	E608	10/06/14 13:10	ADB		
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Acenaphthylene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Anthracene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Benzo(a)anthracene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Benzo(a)pyrene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroethyl)ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
bis(2-Ethylhexyl)phthalate	5	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Bromophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Butyl benzyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Chloroaniline	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
2-Chloronaphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Chloro-3-methylphenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Chlorophenol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Chrysene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
p,m-Cresol	Not detected	ug/L	20	SW8270D	10/10/14 05:47	PL	200,000	
o-Cresol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL	200,000	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Dibenzofuran	Not detected	ug/L	4	SW8270D	10/10/14 05:47	PL		
di-n-Butyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL	7,500	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4-Dichlorophenol	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL		
Diethyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4-Dimethylphenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Dimethyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	SW8270D	10/10/14 05:47	PL		
2,4-Dinitrophenol	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
2,4-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	130	
2,6-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2-Diphenylhydrazine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
di-n-Octyl phthalate	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Fluoranthene	Not detected	ug/L	1	SW8270D	10/10/14 05:47	PL		
Fluorene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Hexachlorobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	130	
Hexachlorobutadiene	Not detected	ug/L	10	SW8270D	10/10/14 05:47	PL	500	
Hexachlorocyclopentadiene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Hexachloroethane	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	3,000	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Isophorone	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Methylnaphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Naphthalene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
3-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
4-Nitroaniline	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
Nitrobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	2,000	

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2-Nitrophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
4-Nitrophenol	Not detected	ug/L	25	SW8270D	10/10/14 05:47	PL		
N-Nitrosodiphenylamine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Pentachlorophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	100,000	
Phenanthrene	Not detected	ug/L	2	SW8270D	10/10/14 05:47	PL		
Phenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
Pyrene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL		
2,4,5-Trichlorophenol	Not detected	ug/L	5	SW8270D	10/10/14 05:47	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	4	SW8270D	10/10/14 05:47	PL	2,000	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/07/14 19:08	WAT		
Acetone	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
Methyl iodide	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/07/14 19:08	WAT		
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/07/14 19:08	WAT	200,000	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Chloromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	200	
Bromomethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Chloroethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	700	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/07/14 19:08	WAT		
Chloroform	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	6,000	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
2-Hexanone	Not detected	ug/L	50	SW8260C	10/07/14 19:08	WAT		
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
Benzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	500	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Dibromomethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Toluene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		

Lab Sample ID: S63036.01 (continued)
Sample Tag: Clarifier_100314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	700	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Chlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	100,000	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/07/14 19:08	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Styrene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Bromoform	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Bromobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT	7,500	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/07/14 19:08	WAT		
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT	3,000	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
Naphthalene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/07/14 19:08	WAT		

Analytical Laboratory Report

Lab Sample ID: S63036.02
Sample Tag: Clarifier_100314
Collected Date/Time: 10/03/2014 11:00
Matrix: Sludge
COC Reference: 87206

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	14.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	10/07/14 10:00	RGS		
Mercury Digestion	Completed			SW7471B	10/15/14 12:00	CCM		
Metal Digestion	Completed			SW3015A	10/15/14 12:00	JRH		
TCLP Zero Headspace Ext.	Completed			SW1311	10/14/14 19:00	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/16/14 11:42	EMR		
TCLP Extraction								
Inital Sample pH	7.41			SW1311	10/14/14 19:00	WAR		
pH after 3.5 ml HCl	2.38			SW1311	10/14/14 19:00	WAR		
% Solids	22			SW1311	10/14/14 19:00	WAR		
Sample Used g	66			SW1311	10/14/14 19:00	WAR		
Final Volume mL	1,554			SW1311	10/14/14 19:00	WAR		
TCLP Extraction Fluid	1			SW1311	10/14/14 19:00	WAR		
Final Extract pH	6.54			SW1311	10/14/14 19:00	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/03/14 12:00	RGS		
pH/ Corrosivity	7.15	STD Units	0.1	SW9045D	10/15/14 14:22	WAR	12.5	
Reactive Cyanide	Not detected	mg/kg	0.4	335.4/4500-CN-E	10/13/14 11:48	JDP		
Reactive Sulfide	Not detected	mg/kg	10	SW9030B	10/13/14 09:46	JDP		1
Total Solids	24	%	1	SM2540B	10/05/14 18:55	ASB		
Metals								
Arsenic, TCLP	0.04	mg/L	0.02	SW6020A	10/15/14 15:15	JRH	5.0	
Barium, TCLP	0.74	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:15	JRH	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	5.0	
Lead, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/15/14 15:56	CCM	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/15/14 15:15	JRH	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/15/14 15:15	JRH	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1242	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1221	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1232	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1248	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		
PCB-1254	500	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		b
PCB-1260	Not detected	ug/kg	1,000	SW8082A	10/07/14 14:03	JAN		

1-* Total Sulfide = 349 mg/kg
b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S63036.02 (continued)
Sample Tag: Clarifier_100314

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	SW8270D	10/16/14 20:32	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/16/14 20:32	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/16/14 20:32	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/16/14 20:32	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/16/14 20:32	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/16/14 14:37	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/16/14 14:37	WAT	200	

Analytical Laboratory Report

Report ID: S68606.01(01)
Generated on 10/07/2015

Report to

Attention: Casey Armstrong
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Report Summary

Lab Sample ID(s): S68606.01
Project: 01-4173-6
Collected Date: 10/02/2015
Submitted Date/Time: 10/02/2015 13:45
Sampled by: RMH
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
ASTMD3278 - 96	ASTM Method D3278 - 96(2011)
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
E608	EPA Method 608
N/A	Not Applicable
SM4500-S2 D	Standard Method 4450 S2 DC 20th Edition
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S68606.01	PS-1	Water	10/02/15 12:20

Analytical Laboratory Report

Lab Sample ID: S68606.01
Sample Tag: PS-1
Collected Date/Time: 10/02/2015 12:20
Matrix: Water
COC Reference: 89528

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
5	1L Amber	None	Yes	17.4	IR
3	40ml Glass	HCL	Yes	17.4	IR
1	125ml Plastic	HNO3	Yes	17.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
BNA Extraction	Completed			SW3510C	10/06/15 10:40	EMR		
Extraction, PCB	Completed			SW3510C	10/05/15 11:58	PLB		
Mercury Digestion	Completed			E245.1	10/05/15 12:30	RGS		
Mercury Digestion	Completed			SW7471B	10/07/15 11:30	RGS		
Metal Digestion	Completed			SW3015A	10/07/15 10:15	CCM		
Metal Digestion	Completed			SW3015A	10/07/15 10:15	CCM		
pH check for VOCs	<2	STD Units		N/A	10/06/15 15:00	LBR		
TCLP Zero Headspace Ext.	<0.5%			SW1311	10/05/15 19:00	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/06/15 11:13	EMR		
TCLP Extraction								
Inital Sample pH	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
pH after 3.5 ml HCl	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
% Solids	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
Sample Used g	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
Final Volume mL	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
TCLP Extraction Fluid	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
Final Extract pH	<0.5%			SW1311	10/05/15 19:00-10/06	WAR		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	10/07/15 0:19	PL	<140	
pH/ Corrosivity	8.36	STD Units	0.1	SW9045D	10/07/15 16:21	ASB	2-12.5	
Reactive Cyanide	Not detected	mg/L	0.01	E335.4/SM4500-CN	10/06/15 12:54	JDP		
Reactive Sulfide	Not detected	mg/L	0.04	SM4500-S2 D	10/06/15 10:22	JDP		
Metals								
Arsenic, Dissolved	0.004	mg/L	0.002	E200.8	10/07/15 11:50	CCM		
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/07/15 11:39	CCM	5.0	
Barium, Dissolved	0.080	mg/L	0.005	E200.8	10/07/15 11:50	CCM		
Barium, TCLP	0.09	mg/L	0.05	SW6020A	10/07/15 11:39	CCM	100.0	
Cadmium, Dissolved	Not detected	mg/L	0.0005	E200.8	10/07/15 11:50	CCM		
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/07/15 11:39	CCM	1.0	
Chromium, Dissolved	Not detected	mg/L	0.005	E200.8	10/07/15 11:50	CCM		
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/07/15 11:39	CCM	5.0	
Copper, Dissolved	Not detected	mg/L	0.005	E200.8	10/07/15 11:50	CCM		
Copper, TCLP	Not detected	mg/L	0.05	SW6020A	10/07/15 11:39	CCM		
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/07/15 11:50	CCM		
Lead, TCLP	Not detected	mg/L	0.03	SW6020A	10/07/15 11:39	CCM	5.0	
Mercury, Dissolved	Not detected	mg/L	0.0002	E245.1	10/05/15 17:06	RGS		
Mercury, TCLP	Not detected	mg/L	0.003	SW7471B	10/07/15 15:02	CCM	0.2	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	10/07/15 11:50	CCM		

Lab Sample ID: S68606.01 (continued)
Sample Tag: PS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Metals (continued)								
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/07/15 11:39	CCM	1.0	
Silver, Dissolved	Not detected	mg/L	0.0005	E200.8	10/07/15 11:50	CCM		
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/07/15 11:39	CCM	5.0	
Zinc, Dissolved	0.011	mg/L	0.005	E200.8	10/07/15 11:50	CCM		
Zinc, TCLP	Not detected	mg/L	0.05	SW6020A	10/07/15 11:39	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1221	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1232	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1242	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1248	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1254	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB-1260	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
PCB, Total	Not detected	ug/L	0.1	E608	10/05/15 15:03	JAN		
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Acenaphthylene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Anthracene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Benzo(a)anthracene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
Benzo(a)pyrene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
bis(2-Chloroethyl)ether	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
4-Bromophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Butyl benzyl phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
4-Chloroaniline	Not detected	ug/L	10	SW8270D	10/07/15 12:55	PL		
2-Chloronaphthalene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
4-Chloro-3-methylphenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
2-Chlorophenol	Not detected	ug/L	10	SW8270D	10/07/15 12:55	PL		
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Chrysene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
p,m-Cresol	Not detected	ug/L	20	SW8270D	10/07/15 12:55	PL	200,000	
o-Cresol	Not detected	ug/L	10	SW8270D	10/07/15 12:55	PL	200,000	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270D	10/07/15 12:55	PL		
Dibenzofuran	Not detected	ug/L	4	SW8270D	10/07/15 12:55	PL		
di-n-Butyl phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL	7,500	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
2,4-Dichlorophenol	Not detected	ug/L	10	SW8270D	10/07/15 12:55	PL		
Diethyl phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		

Lab Sample ID: S68606.01 (continued)
Sample Tag: PS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
2,4-Dimethylphenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Dimethyl phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	SW8270D	10/07/15 12:55	PL		
2,4-Dinitrophenol	Not detected	ug/L	25	SW8270D	10/07/15 12:55	PL		
2,4-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	130	
2,6-Dinitrotoluene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
1,2-Diphenylhydrazine	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
di-n-Octyl phthalate	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Fluoranthene	Not detected	ug/L	1	SW8270D	10/07/15 12:55	PL		
Fluorene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Hexachlorobenzene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	130	
Hexachlorobutadiene	Not detected	ug/L	10	SW8270D	10/07/15 12:55	PL	500	
Hexachlorocyclopentadiene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Hexachloroethane	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	3,000	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270D	10/07/15 12:55	PL		
Isophorone	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
2-Methylnaphthalene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Naphthalene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
2-Nitroaniline	Not detected	ug/L	25	SW8270D	10/07/15 12:55	PL		
3-Nitroaniline	Not detected	ug/L	25	SW8270D	10/07/15 12:55	PL		
4-Nitroaniline	Not detected	ug/L	25	SW8270D	10/07/15 12:55	PL		
Nitrobenzene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	2,000	
2-Nitrophenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
4-Nitrophenol	Not detected	ug/L	25	SW8270D	10/07/15 12:55	PL		
N-Nitrosodiphenylamine	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Pentachlorophenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	100,000	
Phenanthrene	Not detected	ug/L	2	SW8270D	10/07/15 12:55	PL		
Phenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
Pyrene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL		
2,4,5-Trichlorophenol	Not detected	ug/L	5	SW8270D	10/07/15 12:55	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	4	SW8270D	10/07/15 12:55	PL	2,000	
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	SW8270D	10/06/15 22:59	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/06/15 22:59	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/06/15 22:59	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/06/15 22:59	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/06/15 22:59	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/06/15 22:59	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/06/15 22:59	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/06/15 22:59	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/06/15 22:59	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/06/15 22:59	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/06/15 22:59	PL	5,000	

Lab Sample ID: S68606.01 (continued)
Sample Tag: PS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	500	
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/06/15 00:31	LBR	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/06/15 00:31	LBR	200	
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/06/15 00:31	LBR		
Acetone	Not detected	ug/L	50	SW8260C	10/06/15 00:31	LBR		
Methyl iodide	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/06/15 00:31	LBR		
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/06/15 00:31	LBR	200,000	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Chloromethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	200	
Bromomethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Chloroethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	700	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/06/15 00:31	LBR		
Chloroform	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	6,000	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/06/15 00:31	LBR		
2-Hexanone	Not detected	ug/L	50	SW8260C	10/06/15 00:31	LBR		
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	500	
Benzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	500	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	500	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	500	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Dibromomethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Toluene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	700	

Lab Sample ID: S68606.01 (continued)
Sample Tag: PS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Chlorobenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	100,000	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/06/15 00:31	LBR		
o-Xylene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Styrene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Bromoform	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Bromobenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR	7,500	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/06/15 00:31	LBR		
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR	3,000	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
Naphthalene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/06/15 00:31	LBR		

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 1

89528

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PMENVIRONMENTAL
ADDRESS: 3340 RANGER Rd
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: 877.884.6775 P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.com QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.com SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Robert FLAADE

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC's	PCB	SVOC's	MI-10	TCLP - VOC	TCLP - SVOC	TCLP - MI-10	Reactive Cyanide/Sulfide	PH.	FLASH POINT	Special Instructions
686061	10/2	1220	PS-1	W	9	5	3	1					X	X	X	X	X	X	X	X	X	X	PUMP STATION SAMPLE

RELINQUISHED BY: SIGNATURE/ORGANIZATION: RMA ☐ Sampler DATE: 10/2 TIME: 1345
RECEIVED BY: SIGNATURE/ORGANIZATION: Karin Yaeger DATE: 10/2/15 TIME: 1345
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 17.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S69112.01(01)
Generated on 10/29/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S69112.01
Project: 01-4173-6
Collected Date: 10/22/2015
Submitted Date/Time: 10/26/2015 14:15
Sampled by: RMH
P.O. #: 01-4173-6

Table of Contents

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
SM2540B	Standard Method 2540 B 20th Edition
SM4500-S2 D	Standard Method 4450 S2 DC 20th Edition
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8260C/5035A	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9045D	SW 846 Method 9045D Revision 4 November 2004

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S69112.01	PSS-1	Soil	10/22/15 15:45

Analytical Laboratory Report

Lab Sample ID: S69112.01
Sample Tag: PSS-1
Collected Date/Time: 10/22/2015 15:45
Matrix: Soil
COC Reference: 89526

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	8oz Glass	None	Yes	5.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
BNA Extraction	Completed			SW3550C	10/28/15 13:51	EMR		
Extraction, PCB	Completed			SW3550C	10/28/15 11:45	PLB		
Mercury Digestion	Completed			SW7471B	10/28/15 13:00	RGS		
Mercury Digestion	Completed			SW7471B	10/28/15 13:00	RGS		
Metal Digestion	Completed			SW3050B	10/29/15 08:30	CCM		
Metal Digestion	Completed			SW3015A	10/28/15 08:30	CCM		
TCLP Zero Headspace Ext.	Completed			SW1311	10/27/15 18:45	WAR		
TCLP/SPLP BNA Extraction	Completed			SW3510C	10/27/15 14:00	EMR		
TCLP Extraction								
Inital Sample pH	8.74			SW1311	10/27/15 18:45-10/28	WAR		
pH after 3.5 ml HCl	2.36			SW1311	10/27/15 18:45-10/28	WAR		
% Solids	100			SW1311	10/27/15 18:45-10/28	WAR		
Sample Used g	100			SW1311	10/27/15 18:45-10/28	WAR		
Final Volume mL	2,000			SW1311	10/27/15 18:45-10/28	WAR		
TCLP Extraction Fluid	1			SW1311	10/27/15 18:45-10/28	WAR		
Final Extract pH	6.30			SW1311	10/27/15 18:45-10/28	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	10/27/15 22:04	PL		
pH/ Corrosivity	8.21	STD Units	0.1	SW9045D	10/29/15 16:55	ASB	2-12.5	
Reactive Cyanide	Not detected	mg/kg	0.2	E335.4/SM4500-CN	10/27/15 11:10	JDP		
Reactive Sulfide	Not detected	mg/kg	0.5	SM4500-S2 D	10/27/15 09:38	JDP		
Total Solids	79	%	1	SM2540B	10/27/15 12:30	WAR		
Metals								
Arsenic	1.01	mg/kg	0.20	SW6020A	10/29/15 10:47	CCM		
Barium	11.0	mg/kg	1.0	SW6020A	10/29/15 10:47	CCM		
Cadmium	0.24	mg/kg	0.20	SW6020A	10/29/15 10:47	CCM		
Chromium	3.93	mg/kg	0.50	SW6020A	10/29/15 10:47	CCM		
Copper	46.5	mg/kg	0.50	SW6020A	10/29/15 12:08	CCM		
Lead	10.7	mg/kg	0.30	SW6020A	10/29/15 10:47	CCM		
Mercury	Not detected	mg/kg	0.050	SW7471B	10/28/15 16:58	RGS		
Selenium	Not detected	mg/kg	0.40	SW6020A	10/29/15 10:47	CCM		
Silver	Not detected	mg/kg	0.20	SW6020A	10/29/15 10:47	CCM		
Zinc	60.6	mg/kg	0.50	SW6020A	10/29/15 12:08	CCM		
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	10/28/15 14:47	CCM	5.0	
Barium, TCLP	0.21	mg/L	0.05	SW6020A	10/28/15 12:06	CCM	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	10/28/15 12:06	CCM	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	10/28/15 12:06	CCM	5.0	
Copper, TCLP	Not detected	mg/L	0.05	SW6020A	10/28/15 12:06	CCM		
Lead, TCLP	Not detected	mg/L	0.03	SW6020A	10/28/15 12:06	CCM	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	10/28/15 15:48	RGS	0.2	

Lab Sample ID: S69112.01 (continued)
Sample Tag: PSS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Metals (continued)								
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	10/28/15 12:06	CCM	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	10/28/15 12:06	CCM	5.0	
Zinc, TCLP	1.01	mg/L	0.05	SW6020A	10/28/15 12:06	CCM		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1242	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1221	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1232	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1248	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1254	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
PCB-1260	Not detected	ug/kg	330	SW8082A	10/28/15 13:48	JAN		
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Acenaphthylene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Anthracene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Benzo(a)anthracene	520	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Benzo(b)fluoranthene	1,050	ug/kg	330	SW8270D	10/28/15 14:16	PL		p
Benzo(k)fluoranthene	1,120	ug/kg	330	SW8270D	10/28/15 14:16	PL		p
Benzo(ghi)perylene	380	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Benzo(a)pyrene	540	ug/kg	330	SW8270D	10/28/15 14:16	PL		
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Butyl benzyl phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
4-Chloroaniline	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2-Chloronaphthalene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
4-Chloro-3-methylphenol	Not detected	ug/kg	280	SW8270D	10/28/15 14:16	PL		
2-Chlorophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Chrysene	600	ug/kg	330	SW8270D	10/28/15 14:16	PL		
p,m-Cresol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
o-Cresol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Dibenzofuran	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
di-n-Butyl phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
1,2-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
1,3-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
1,4-Dichlorobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	SW8270D	10/28/15 14:16	PL		
2,4-Dichlorophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Diethyl phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2,4-Dimethylphenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Dimethyl phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Lab Sample ID: S69112.01 (continued)
Sample Tag: PSS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
2,4-Dinitrophenol	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
2,4-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2,6-Dinitrotoluene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
1,2-Diphenylhydrazine	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
di-n-Octyl phthalate	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Fluoranthene	1,530	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Fluorene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Hexachlorobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Hexachlorobutadiene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Hexachlorocyclopentadiene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Hexachloroethane	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Indeno(1,2,3-cd)pyrene	340	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Isophorone	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Naphthalene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
3-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
4-Nitroaniline	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
Nitrobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2-Nitrophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
4-Nitrophenol	Not detected	ug/kg	830	SW8270D	10/28/15 14:16	PL		
N-Nitrosodiphenylamine	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Pentachlorophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Phenanthrene	960	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Phenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
Pyrene	1,220	ug/kg	330	SW8270D	10/28/15 14:16	PL		
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2,4,5-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
2,4,6-Trichlorophenol	Not detected	ug/kg	330	SW8270D	10/28/15 14:16	PL		
TCLP Semi Volatiles								
o-Cresol	Not detected	ug/L	1,000	SW8270D	10/28/15 13:30	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	10/28/15 13:30	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	10/28/15 13:30	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/28/15 13:30	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	10/28/15 13:30	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	10/28/15 13:30	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	10/28/15 13:30	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	10/28/15 13:30	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	10/28/15 13:30	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	10/28/15 13:30	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	10/28/15 13:30	PL	5,000	
Organics - Volatiles								
TCLP Volatiles								
Benzene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	500	
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	500	

Lab Sample ID: S69112.01 (continued)
Sample Tag: PSS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Organics - Volatiles (continued)								
TCLP Volatiles (continued)								
Chlorobenzene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	100,000	
Chloroform	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	500	
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	SW8260C	10/28/15 17:56	LBR	200,000	
Tetrachloroethene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	700	
Trichloroethene	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	500	
Vinyl chloride	Not detected	ug/L	100	SW8260C	10/28/15 17:56	LBR	200	
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	10/28/15 09:11	LBR		x
Acetone	Not detected	ug/kg	2,000	SW8260C/5035A	10/28/15 09:11	LBR		x
Methyl iodide	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
Carbon disulfide	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR		x
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	10/28/15 09:11	LBR		x
Acrylonitrile	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260C/5035A	10/28/15 09:11	LBR		x
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR		x
Chloromethane	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR		x
Vinyl chloride	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/28/15 09:11	LBR		x
Chloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR		x
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Methylene chloride	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260C/5035A	10/28/15 09:11	LBR		x
Chloroform	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Bromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260C/5035A	10/28/15 09:11	LBR		x
2-Hexanone	Not detected	ug/kg	4,000	SW8260C/5035A	10/28/15 09:11	LBR		x
Carbon tetrachloride	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Benzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Trichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Bromodichloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR		x
Dibromomethane	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR		x
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Toluene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
Tetrachloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR		x

x-Preserved from bulk sample

Lab Sample ID: S69112.01 (continued)
Sample Tag: PSS-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech Limits	Flags
Organics - Volatiles (continued)							
Volatile Organics 5035 (continued)							
Dibromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	10/28/15 09:11	LBR	xM
Chlorobenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
Ethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
p,m-Xylene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
o-Xylene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
Styrene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
Isopropylbenzene	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR	x
Bromoform	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
n-Propylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
Bromobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,3,5-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
tert-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2,4-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
sec-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2,3-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
n-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/28/15 09:11	LBR	x
Hexachloroethane	Not detected	ug/kg	500	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2,4-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	10/28/15 09:11	LBR	x
1,2,3-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	10/28/15 09:11	LBR	x
Naphthalene	Not detected	ug/kg	400	SW8260C/5035A	10/28/15 09:11	LBR	x
2-Methylnaphthalene	Not detected	ug/kg	200	SW8260C/5035A	10/28/15 09:11	LBR	x

x-Preserved from bulk sample
M-Result reported to MDL not RDL

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 1 OF 1

89526

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3340 RANGER RD
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: 877.884.6775 P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.COM ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: PMM

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	PCB	SVOC's	MI-10	TCLP-VOC	TCLP-SVOC	TCLP-MI-10	REACTIVE CYANIDE/SULFIDE	PH	FLASH POINT	Special Instructions
69112.01	10/22	1545	PSS-1	S	4	4							X	X	X	X	X	X	X	X	X	X	SEDIMENT.

RELINQUISHED BY: SIGNATURE/ORGANIZATION: PMM ☒ Sampler DATE: 10/22 TIME: 1430
RECEIVED BY: SIGNATURE/ORGANIZATION: KM STORAGE DATE: 10/22 TIME: 1430

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 10/25 TIME: 1200

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: 10-26-12 TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 10-26-12 TIME: 14:15

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

NOTES: TEMP. ON ARRIVAL 5.5

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S70221.01(01)
Generated on 12/11/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S70221.01-S70221.05
Project: 01-4173-6 / Racer Clarifier
Collected Date: 12/10/2015
Submitted Date/Time: 12/10/2015 13:25
Sampled by: Doug Spencer
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S70221.01	Vault-(J)	Solid	12/10/15 11:30
S70221.02	Vault-(K)	Solid	12/10/15 11:35
S70221.03	Vault-(L)	Solid	12/10/15 11:40
S70221.04	Vault-(M)	Solid	12/10/15 11:45
S70221.05	Vault-(N)	Solid	12/10/15 11:50

Analytical Laboratory Report

Lab Sample ID: S70221.01
Sample Tag: Vault-(J)
Collected Date/Time: 12/10/2015 11:30
Matrix: Solid
COC Reference: 79861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	12.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/15 12:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/15 12:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S70221.02
Sample Tag: Vault-(K)
Collected Date/Time: 12/10/2015 11:35
Matrix: Solid
COC Reference: 79861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	12.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/15 12:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/15 13:17	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S70221.03
Sample Tag: Vault-(L)
Collected Date/Time: 12/10/2015 11:40
Matrix: Solid
COC Reference: 79861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	12.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/15 12:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/15 13:27	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S70221.04
Sample Tag: Vault-(M)
Collected Date/Time: 12/10/2015 11:45
Matrix: Solid
COC Reference: 79861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	12.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/15 12:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/15 13:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S70221.05
Sample Tag: Vault-(N)
Collected Date/Time: 12/10/2015 11:50
Matrix: Solid
COC Reference: 79861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	12.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/15 12:00	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/15 13:48	JAN	11096-82-5	

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www.meritlabs.com

C.O.C. PAGE # 1 OF 1

79861

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: (517) 321-3331 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@pmenv.com ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-6 / Racer Clarifier
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer

TURNAROUND TIME REQUIRED: ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	Special Instructions
70221.01	12/10/15	11:30	Vault-(J)	SD	1	1							X	
.02		11:35	Vault-(K)	SD	1	1							X	* Concrete powder (pulverized with a drill)
.03		11:40	Vault-(L)	SD	1	1							X	
.04		11:45	Vault-(M)	SD	1	1							X	
.05		11:50	Vault-(N)	SD	1	1							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM Envi ☑ Sampler	DATE 12/10/15	TIME 13:00
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	Karen Monge	DATE 12/10/15	TIME 1325
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 12.3
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Appendix B
(Concrete)

PM ENVIRONMENTAL Environmental & Engineering Services

Analytical Laboratory Report

Report ID: S63897.01(01)
Generated on 12/15/2014

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63897.01-S63897.42
Project: Racer Plant 2 & 3 01-4172-5
Collected Date: 12/04/2014 - 12/05/2014
Submitted Date/Time: 12/08/2014 15:40
Sampled by: D Spencer/R Hikade
P.O. #: 01-4172-5

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (42 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63897.01	Plant-2-001-(A)	Solid	12/04/2014 09:05
S63897.02	Plant-2-001-(B)	Solid	12/04/2014 09:55
S63897.03	Plant-2-001-(C)	Solid	12/04/2014 09:35
S63897.04	Plant-2-001-(D)	Solid	12/04/2014 10:20
S63897.05	Plant-2-001-(E)	Solid	12/04/2014 10:35
S63897.06	Plant-2-001-(F)	Solid	12/04/2014 09:20
S63897.07	Plant-2-001-(G)	Solid	12/04/2014 10:45
S63897.08	Plant-2-001-(H)	Solid	12/04/2014 11:00
S63897.09	Plant-2-001-(I)	Solid	12/04/2014 11:10
S63897.10	Plant-2-CC15-(A)	Solid	12/04/2014 14:15
S63897.11	Plant-2-CC15-(B)	Solid	12/04/2014 14:25
S63897.12	Plant-2-CC15-(C)	Solid	12/04/2014 14:35
S63897.13	Plant-2-CC15-(D)	Solid	12/04/2014 14:45
S63897.14	Plant-2-CC15-(E)	Solid	12/04/2014 14:55
S63897.15	Plant-2-CC15-(F)	Solid	12/04/2014 15:05
S63897.16	Plant-2-CC15-(G)	Solid	12/04/2014 15:15
S63897.17	Plant-2-CC15-(H)	Solid	12/04/2014 15:25
S63897.18	Plant-2-CC15-(I)	Solid	12/04/2014 15:30
S63897.19	Plant-2-CC72-(B)	Solid	12/04/2014 16:00
S63897.20	Plant-2-CC72-(C)	Solid	12/05/2014 09:45
S63897.21	Plant-2-CC72-(E)	Solid	12/04/2014 16:05
S63897.22	Plant-2-CC72-(F)	Solid	12/05/2014 09:35
S63897.23	Plant-2-CC72-(G)	Solid	12/04/2014 16:20
S63897.24	Plant-2-CC72-(H)	Solid	12/05/2014 09:55
S63897.25	Plant-3-F3A-(A)	Solid	12/05/2014 10:40
S63897.26	Plant-3-F3A-(B)	Solid	12/05/2014 10:50
S63897.27	Plant-3-F3A-(C)	Solid	12/05/2014 10:55
S63897.28	Plant-3-F3A-(D)	Solid	12/05/2014 11:00
S63897.29	Plant-3-F3A-(E)	Solid	12/05/2014 11:10
S63897.30	Plant-3-F3A-(F)	Solid	12/05/2014 11:20
S63897.31	Plant-3-F3A-(G)	Solid	12/05/2014 11:35
S63897.32	Plant-3-F3A-(H)	Solid	12/05/2014 11:30
S63897.33	Plant-3-F3A-(I)	Solid	12/05/2014 11:45
S63897.34	Plant-3-F3B-(A)	Solid	12/05/2014 13:10
S63897.35	Plant-3-F3B-(B)	Solid	12/05/2014 13:20
S63897.36	Plant-3-F3B-(C)	Solid	12/05/2014 13:35
S63897.37	Plant-3-F3B-(D)	Solid	12/05/2014 13:40
S63897.38	Plant-3-F3B-(E)	Solid	12/05/2014 13:25
S63897.39	Plant-3-F3B-(F)	Solid	12/05/2014 13:55
S63897.40	Plant-3-F3B-(G)	Solid	12/05/2014 13:45
S63897.41	Plant-3-F3B-(H)	Solid	12/05/2014 13:50
S63897.42	Plant-3-F3B-(I)	Solid	12/05/2014 14:00

Analytical Laboratory Report

Lab Sample ID: S63897.01
Sample Tag: Plant-2-001-(A)
Collected Date/Time: 12/04/2014 09:05
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.02
Sample Tag: Plant-2-001-(B)
Collected Date/Time: 12/04/2014 09:55
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:05	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.03
Sample Tag: Plant-2-001-(C)
Collected Date/Time: 12/04/2014 09:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.04
Sample Tag: Plant-2-001-(D)
Collected Date/Time: 12/04/2014 10:20
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.05
Sample Tag: Plant-2-001-(E)
Collected Date/Time: 12/04/2014 10:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	12672-29-6	
PCB-1254	700	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:16	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.06
Sample Tag: Plant-2-001-(F)
Collected Date/Time: 12/04/2014 09:20
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 16:26	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.07
Sample Tag: Plant-2-001-(G)
Collected Date/Time: 12/04/2014 10:45
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	12672-29-6	
PCB-1254	240	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 18:26	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.08
Sample Tag: Plant-2-001-(H)
Collected Date/Time: 12/04/2014 11:00
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/09/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 18:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.09
Sample Tag: Plant-2-001-(I)
Collected Date/Time: 12/04/2014 11:10
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	12674-11-2	Y
PCB-1242	1,700	ug/kg	500	SW8082A	12/11/14 16:05	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	12672-29-6	Y
PCB-1254	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	12/11/14 16:05	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63897.10
Sample Tag: Plant-2-CC15-(A)
Collected Date/Time: 12/04/2014 14:15
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:33	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.11
Sample Tag: Plant-2-CC15-(B)
Collected Date/Time: 12/04/2014 14:25
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:43	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.12
Sample Tag: Plant-2-CC15-(C)
Collected Date/Time: 12/04/2014 14:35
Matrix: Solid
COC Reference: 84820

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:54	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.13
Sample Tag: Plant-2-CC15-(D)
Collected Date/Time: 12/04/2014 14:45
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:04	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.14
Sample Tag: Plant-2-CC15-(E)
Collected Date/Time: 12/04/2014 14:55
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:15	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.15
Sample Tag: Plant-2-CC15-(F)
Collected Date/Time: 12/04/2014 15:05
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 15:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.16
Sample Tag: Plant-2-CC15-(G)
Collected Date/Time: 12/04/2014 15:15
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 12:45	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.17
Sample Tag: Plant-2-CC15-(H)
Collected Date/Time: 12/04/2014 15:25
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 12:56	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.18
Sample Tag: Plant-2-CC15-(I)
Collected Date/Time: 12/04/2014 15:30
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:06	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.19
Sample Tag: Plant-2-CC72-(B)
Collected Date/Time: 12/04/2014 16:00
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.20
Sample Tag: Plant-2-CC72-(C)
Collected Date/Time: 12/05/2014 09:45
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:30	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.21
Sample Tag: Plant-2-CC72-(E)
Collected Date/Time: 12/04/2014 16:05
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:40	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.22
Sample Tag: Plant-2-CC72-(F)
Collected Date/Time: 12/05/2014 09:35
Matrix: Solid
COC Reference: 84821

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 13:51	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.23
Sample Tag: Plant-2-CC72-(G)
Collected Date/Time: 12/04/2014 16:20
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/10/14 10:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/11/14 14:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.24
Sample Tag: Plant-2-CC72-(H)
Collected Date/Time: 12/05/2014 09:55
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:26	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.25
Sample Tag: Plant-3-F3A-(A)
Collected Date/Time: 12/05/2014 10:40
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:36	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.26
Sample Tag: Plant-3-F3A-(B)
Collected Date/Time: 12/05/2014 10:50
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	12672-29-6	
PCB-1254	1,200	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:19	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.27
Sample Tag: Plant-3-F3A-(C)
Collected Date/Time: 12/05/2014 10:55
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 16:14	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.28
Sample Tag: Plant-3-F3A-(D)
Collected Date/Time: 12/05/2014 11:00
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:37	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.29
Sample Tag: Plant-3-F3A-(E)
Collected Date/Time: 12/05/2014 11:10
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	12672-29-6	
PCB-1254	250	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:48	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.30
Sample Tag: Plant-3-F3A-(F)
Collected Date/Time: 12/05/2014 11:20
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.31
Sample Tag: Plant-3-F3A-(G)
Collected Date/Time: 12/05/2014 11:35
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	12672-29-6	
PCB-1254	1,500	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:24	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.32
Sample Tag: Plant-3-F3A-(H)
Collected Date/Time: 12/05/2014 11:30
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	12672-29-6	
PCB-1254	220	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11097-69-1	b
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:36	JAN	11096-82-5	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S63897.33
Sample Tag: Plant-3-F3A-(I)
Collected Date/Time: 12/05/2014 11:45
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 16:25	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.34
Sample Tag: Plant-3-F3B-(A)
Collected Date/Time: 12/05/2014 13:10
Matrix: Solid
COC Reference: 84822

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:48	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.35
Sample Tag: Plant-3-F3B-(B)
Collected Date/Time: 12/05/2014 13:20
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 14:09	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.36
Sample Tag: Plant-3-F3B-(C)
Collected Date/Time: 12/05/2014 13:35
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 12:59	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.37
Sample Tag: Plant-3-F3B-(D)
Collected Date/Time: 12/05/2014 13:40
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 11:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.38
Sample Tag: Plant-3-F3B-(E)
Collected Date/Time: 12/05/2014 13:25
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:10	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.39
Sample Tag: Plant-3-F3B-(F)
Collected Date/Time: 12/05/2014 13:55
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.40
Sample Tag: Plant-3-F3B-(G)
Collected Date/Time: 12/05/2014 13:45
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	12672-29-6	
PCB-1254	500	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:31	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.41
Sample Tag: Plant-3-F3B-(H)
Collected Date/Time: 12/05/2014 13:50
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/15/14 13:42	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S63897.42
Sample Tag: Plant-3-F3B-(I)
Collected Date/Time: 12/05/2014 14:00
Matrix: Solid
COC Reference: 84823

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	12/11/14 09:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	12/12/14 12:09	JAN	11096-82-5	

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C.O.C. PAGE # 1 OF 4

84820

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☑ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	*
63897.01	12/4/14	0905	Plant-2-001-(A)	SD	1	1							X	*Concrete powder samples*
.02		0955	Plant-2-001-(B)		1	1							X	
.03		0935	Plant-2-001-(C)		1	1							X	
.04		1020	Plant-2-001-(D)		1	1							X	
.05		1035	Plant-2-001-(E)		1	1							X	
.06		0920	Plant-2-001-(F)		1	1							X	
.07		1045	Plant-2-001-(G)		1	1							X	
.08		1100	Plant-2-001-(H)		1	1							X	
.09		1110	Plant-2-001-(I)		1	1							X	
.10		1415	Plant-2-CC15-(A)		1	1							X	
.11		1425	Plant-2-CC15-(B)		1	1							X	
.12		1435	Plant-2-CC15-(C)		1	1							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM Env	☑ Sampler	DATE 12/5/14	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage		DATE 12/5/14	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE 12/8/14	TIME 1500

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 12/8/14	TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michelle Dunkman	DATE 12/08/14	TIME 1540

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 4

84821

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

☑ SAME

CONTACT NAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63887.13	12/4/14	1445	Plant-2-CC15-(D)	SD	1	1							X
.14	12/4/14	1455	Plant-2-CC15-(E)		1	1							X
.15	12/4/14	1505	Plant-2-CC15-(F)		1	1							X
.16	12/4/14	1515	Plant-2-CC15-(G)		1	1							X
.17	12/4/14	1525	Plant-2-CC15-(H)		1	1							X
.18	12/4/14	1530	Plant-2-CC15-(I)		1	1							X
	12/4/14		Plant-2-CC72-(A)		1	1							X
.19	12/4/14	1600	Plant-2-CC72-(B)		1	1							X
.20	12/5/14	0945	Plant-2-CC72-(C)		1	1							X
	12/4/14		Plant-2-CC72-(D)		1	1							X
.21	12/4/14	1605	Plant-2-CC72-(E)		1	1							X
.22	12/5/14	0935	Plant-2-CC72-(F)		1	1							X

☑ Sampler

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM ENV	12/5/14	1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	12/5/14	1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM/Storage		
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature] / Intel	12-8-14	1500

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature] / Intel	12-8-14	1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michelle Dunkman	12/08/14	1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 4

84822

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☑ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 263 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikad

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63897.23	12/4/14	1620	Plant-2-CC77-(G)	SD	1	1							X
.24	12/5/14	0955	Plant-2-CC72-(H)		1	1							X
.25		1040	Plant-3-F3A-(A)		1	1							X
.26		1050	Plant-3-F3A-(B)		1	1							X
.27		1055	Plant-3-F3A-(C)		1	1							X
.28		1100	Plant-3-F3A-(D)		1	1							X
.29		1110	Plant-3-F3A-(E)		1	1							X
.30		1120	Plant-3-F3A-(F)		1	1							X
.31		1135	Plant-3-F3A-(G)		1	1							X
.32		1730	Plant-3-F3A-(H)		1	1							X
.33		1145	Plant-3-F3A-(I)		1	1							X
.34		1310	Plant-3-F3B-(A)		1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Env. ☐ Sampler	DATE 12/5/14	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 12/5/14	TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	MLT	DATE 12-8-14	TIME 820

RELINQUISHED BY: SIGNATURE/ORGANIZATION	MLT	DATE 12-8-14	TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 12/08/14	TIME 1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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84823

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Raad
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: 517-321-3331 FAX NO.: 877-884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: Racer Plant 2+3 01-4172-5
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer / Robert Hikade

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☑ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
63897.35	12/5/14	1320	Plant-3-F3B-(B)	SD	1	1							X
.36		1335	Plant-3-F3B-(C)		1	1							X
.37		1340	Plant-3-F3B-(D)		1	1							X
.38		1325	Plant-3-F3B-(E)		1	1							X
.39		1355	Plant-3-F3B-(F)		1	1							X
.40		1345	Plant-3-F3B-(G)		1	1							X
.41		1350	Plant-3-F3B-(H)		1	1							X
.42		1400	Plant-3-F3B-(I)		1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Doug Spencer / PM Env. ☑ Sampler DATE 12/5/14 TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION: PM Storage DATE 12/5/14 TIME 1700
RELINQUISHED BY: SIGNATURE/ORGANIZATION: PM Storage DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE 12-5-14 TIME 1500

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE 12-8-14 TIME 1540
RECEIVED BY: SIGNATURE/ORGANIZATION: Michelle Dunkman DATE 12/08/14 TIME 1540

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

NOTES: TEMP. ON ARRIVAL 5.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S65061.01(01)
Generated on 04/01/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65061.01-S65061.06
Project: RACER Plant-2 / 01-4173-6
Collected Date: 03/30/2015
Submitted Date/Time: 03/31/2015 15:20
Sampled by: Doug Spencer
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65061.01	Plant-2-001 (J)	Solid	03/30/2015 09:55
S65061.02	Plant-2-001 (K)	Solid	03/30/2015 10:05
S65061.03	Plant-2-001 (L)	Solid	03/30/2015 10:15
S65061.04	Plant-2-001 (M)	Solid	03/30/2015 10:25
S65061.05	Plant-2-001 (N)	Solid	03/30/2015 10:35
S65061.06	Plant-2-001 (O)	Solid	03/30/2015 10:45

Analytical Laboratory Report

Lab Sample ID: S65061.01
Sample Tag: Plant-2-001 (J)
Collected Date/Time: 03/30/2015 09:55
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:01	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.02
Sample Tag: Plant-2-001 (K)
Collected Date/Time: 03/30/2015 10:05
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 12:02	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.03
Sample Tag: Plant-2-001 (L)
Collected Date/Time: 03/30/2015 10:15
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:21	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.04
Sample Tag: Plant-2-001 (M)
Collected Date/Time: 03/30/2015 10:25
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:34	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.05
Sample Tag: Plant-2-001 (N)
Collected Date/Time: 03/30/2015 10:35
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 12:13	ADB	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65061.06
Sample Tag: Plant-2-001 (O)
Collected Date/Time: 03/30/2015 10:45
Matrix: Solid
COC Reference: 84061

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:47	JAN	11096-82-5	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

84061

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: (517) 321-3331 FAX NO: (877) 884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: RACER PLANT-2/01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☑ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
650061.01	3/30/15	09:55	Plant-2-001 (J)	SD	1	1							X
.02		10:05	Plant-2-001 (K)	SD	1	1							X
.03		10:15	Plant-2-001 (L)	SD	1	1							X
.04		10:25	Plant-2-001 (M)	SD	1	1							X
.05		10:35	Plant-2-001 (N)	SD	1	1							X
.06		10:45	Plant-2-001 (O)	SD	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer / PM Env. ☐ Sampler	DATE 3/30/15	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/30/15	TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA	DATE 3/31/15	TIME 15:20
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 03/31/15	TIME 1520

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/31/15	TIME 12:45
RECEIVED BY: SIGNATURE/ORGANIZATION	RMA	DATE 3/31/15	TIME 12:45

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

NOTES: TEMP. ON ARRIVAL 15.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S65062.01(01)
Generated on 04/02/2015

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65062.01-S65062.07
Project: RACER Plant 3 / 01-4173-6
Collected Date: 03/30/2015
Submitted Date/Time: 03/31/2015 15:20
Sampled by: Doug Spencer
P.O. #: 01-4173-6

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
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Report Narrative

There is no additional narrative for this analytical report

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Authority	Certification ID
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DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65062.01	Plant-3-F3A (J)	Solid	03/30/2015 11:15
S65062.02	Plant-3-F3A (K)	Solid	03/30/2015 11:25
S65062.03	Plant-3-F3A (L)	Solid	03/30/2015 11:35
S65062.04	Plant-3-F3A (M)	Solid	03/30/2015 11:45
S65062.05	Plant-3-F3A (N)	Solid	03/30/2015 11:55
S65062.06	Plant-3-F3A (O)	Solid	03/30/2015 12:05
S65062.07	Plant-3-F3A (P)	Solid	03/30/2015 12:15

Analytical Laboratory Report

Lab Sample ID: S65062.01
Sample Tag: Plant-3-F3A (J)
Collected Date/Time: 03/30/2015 11:15
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	12672-29-6	
PCB-1254	400	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 15:35	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.02
Sample Tag: Plant-3-F3A (K)
Collected Date/Time: 03/30/2015 11:25
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/01/15 13:58	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.03
Sample Tag: Plant-3-F3A (L)
Collected Date/Time: 03/30/2015 11:35
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/01/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	12672-29-6	Y
PCB-1254	1,800	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	400	SW8082A	04/02/15 14:02	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S65062.04
Sample Tag: Plant-3-F3A (M)
Collected Date/Time: 03/30/2015 11:45
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	12674-11-2	Y
PCB-1242	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	53469-21-9	Y
PCB-1221	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11104-28-2	Y
PCB-1232	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11141-16-5	Y
PCB-1248	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	12672-29-6	Y
PCB-1254	3,800	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11097-69-1	Y
PCB-1260	Not detected	ug/kg	500	SW8082A	04/02/15 13:25	JAN	11096-82-5	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S65062.05
Sample Tag: Plant-3-F3A (N)
Collected Date/Time: 03/30/2015 11:55
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 11:23	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.06
Sample Tag: Plant-3-F3A (O)
Collected Date/Time: 03/30/2015 12:05
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 12:38	JAN	11096-82-5	

Analytical Laboratory Report

Lab Sample ID: S65062.07
Sample Tag: Plant-3-F3A (P)
Collected Date/Time: 03/30/2015 12:15
Matrix: Solid
COC Reference: 84060

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	15.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	04/02/15 08:00	RGS		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	12672-29-6	
PCB-1254	1,000	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/02/15 12:18	JAN	11096-82-5	

Merit Laboratories, Inc.

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C.O.C. PAGE # 1 OF 1

84060

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Casey Armstrong
COMPANY: PM Environmental
ADDRESS: 3340 Ranger Road
CITY: Lansing STATE: MI ZIP CODE: 48906
PHONE NO.: (517) 321-3331 FAX NO.: (877) 884-6775 P.O. NO.:
E-MAIL ADDRESS: Armstrong@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: RACER PLANT 3/01-4173-6
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Doug Spencer

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB
65062.01	3/30/15	11:15	Plant-3-F3A (J)	SD	1	1							X
.02		11:25	Plant-3-F3A (K)	SD	1	1							X
.03		11:35	Plant-3-F3A (L)	SD	1	1							X
.04		11:45	Plant-3-F3A (M)	SD	1	1							X
.05		11:55	Plant-3-F3A (N)	SD	1	1							X
.06		12:05	Plant-3-F3A (O)	SD	1	1							X
.07		12:15	Plant-3-F3A (P)	SD	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Doug Spencer/PM ENV. ☑ Sampler	DATE 3/30/15	TIME 15:00
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/30/15	TIME 15:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 3/31/15	TIME 15:30
RECEIVED BY: SIGNATURE/ORGANIZATION	Michael Dunkman	DATE 03/31/15	TIME 1520

RELINQUISHED BY: SIGNATURE/ORGANIZATION	PM Storage	DATE 3/31/15	TIME 12:45
RECEIVED BY: SIGNATURE/ORGANIZATION	RMS	DATE 3/31/15	TIME 12:45

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

NOTES: TEMP. ON ARRIVAL 15.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Supplemental Report

Report ID: S74228.01(02)
Generated on 06/22/2016
Replaces report S74228.01(01) generated on 06/22/2016

Report to

Attention: Casey Armstrong
PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

Phone: 517-325-9866 FAX: 323-7228
Email: armstrong@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S74228.01-S74228.27
Project: 01-4173-7
Collected Date: 06/20/2016
Submitted Date/Time: 06/20/2016 17:01
Sampled by: Unknown
P.O. #: 01-4173-7

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Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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 reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

All analyses completed

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (27 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S74228.01	S-1 (Area-8)	Soil	06/20/16 12:30
S74228.02	S-2 (Area-8)	Soil	06/20/16 12:32
S74228.03	S-3 (Area-8)	Soil	06/20/16 12:34
S74228.04	S-4 (Area-8)	Soil	06/20/16 12:36
S74228.05	S-5 (Area-8)	Soil	06/20/16 12:38
S74228.06	S-6 (Area-8)	Soil	06/20/16 12:40
S74228.07	S-7 (Area-8)	Soil	06/20/16 12:42
S74228.08	S-8 (Area-8)	Soil	06/20/16 12:44
S74228.09	S-9 (Area-8)	Soil	06/20/16 12:46
S74228.10	S-1 (Area-11)	Soil	06/20/16 13:00
S74228.11	S-2 (Area-11)	Soil	06/20/16 13:02
S74228.12	S-3 (Area-11)	Soil	06/20/16 13:04
S74228.13	S-4 (Area-11)	Soil	06/20/16 13:06
S74228.14	S-5 (Area-11)	Soil	06/20/16 13:08
S74228.15	S-6 (Area-11)	Soil	06/20/16 13:10
S74228.16	S-7 (Area-11)	Soil	06/20/16 13:12
S74228.17	S-8 (Area-11)	Soil	06/20/16 13:14
S74228.18	S-9 (Area-11)	Soil	06/20/16 13:15
S74228.19	S-10 (Area-11)	Soil	06/20/16 13:16
S74228.20	S-11 (Area-11)	Soil	06/20/16 13:18
S74228.21	S-12 (Area-11)	Soil	06/20/16 13:20
S74228.22	A-1 (Area-8)	Soil	06/20/16 00:01
S74228.23	A-1 (Area-11)	Soil	06/20/16 00:01
S74228.24	Plant-3-F3A-(Q)	Solid	06/20/16 13:30
S74228.25	Plant-3-F3A-(R)	Solid	06/20/16 13:40
S74228.26	Plant-3-F3A-(S)	Solid	06/20/16 13:50
S74228.27	Plant-3-F3A-(T)	Solid	06/20/16 14:00

Lab Sample ID: S74228.01
Sample Tag: S-1 (Area-8)
Collected Date/Time: 06/20/2016 12:30
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	95	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 11:06	JAN	11096-82-5	

Lab Sample ID: S74228.02
Sample Tag: S-2 (Area-8)
Collected Date/Time: 06/20/2016 12:32
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	96	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 11:17	JAN	11096-82-5	

Lab Sample ID: S74228.03
Sample Tag: S-3 (Area-8)
Collected Date/Time: 06/20/2016 12:34
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	97	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 11:28	JAN	11096-82-5	

Lab Sample ID: S74228.04
Sample Tag: S-4 (Area-8)
Collected Date/Time: 06/20/2016 12:36
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	93	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 11:39	JAN	11096-82-5	

Lab Sample ID: S74228.05
Sample Tag: S-5 (Area-8)
Collected Date/Time: 06/20/2016 12:38
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	95	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 11:51	JAN	11096-82-5	

Lab Sample ID: S74228.06
Sample Tag: S-6 (Area-8)
Collected Date/Time: 06/20/2016 12:40
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	96	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:02	JAN	11096-82-5	

Lab Sample ID: S74228.07
Sample Tag: S-7 (Area-8)
Collected Date/Time: 06/20/2016 12:42
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	91	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:13	JAN	11096-82-5	

Lab Sample ID: S74228.08
Sample Tag: S-8 (Area-8)
Collected Date/Time: 06/20/2016 12:44
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	94	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:24	JAN	11096-82-5	

Lab Sample ID: S74228.09
Sample Tag: S-9 (Area-8)
Collected Date/Time: 06/20/2016 12:46
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	93	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:35	JAN	11096-82-5	

Lab Sample ID: S74228.10
Sample Tag: S-1 (Area-11)
Collected Date/Time: 06/20/2016 13:00
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	85	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:17	JAN	11096-82-5	

Lab Sample ID: S74228.11
Sample Tag: S-2 (Area-11)
Collected Date/Time: 06/20/2016 13:02
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	90	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:28	JAN	11096-82-5	

Lab Sample ID: S74228.12
Sample Tag: S-3 (Area-11)
Collected Date/Time: 06/20/2016 13:04
Matrix: Soil
COC Reference: 097856

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	85	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:48	JAN	11096-82-5	

Lab Sample ID: S74228.13
Sample Tag: S-4 (Area-11)
Collected Date/Time: 06/20/2016 13:06
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	90	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 16:35	JAN	11096-82-5	

Lab Sample ID: S74228.14
Sample Tag: S-5 (Area-11)
Collected Date/Time: 06/20/2016 13:08
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	89	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:03	JAN	11096-82-5	

Lab Sample ID: S74228.15
Sample Tag: S-6 (Area-11)
Collected Date/Time: 06/20/2016 13:10
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	93	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 16:40	JAN	11096-82-5	

Lab Sample ID: S74228.16
Sample Tag: S-7 (Area-11)
Collected Date/Time: 06/20/2016 13:12
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	91	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 16:51	JAN	11096-82-5	

Lab Sample ID: S74228.17
Sample Tag: S-8 (Area-11)
Collected Date/Time: 06/20/2016 13:14
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	88	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 12:58	JAN	11096-82-5	

Lab Sample ID: S74228.18
Sample Tag: S-9 (Area-11)
Collected Date/Time: 06/20/2016 13:15
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	91	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 16:45	JAN	11096-82-5	

Lab Sample ID: S74228.19
Sample Tag: S-10 (Area-11)
Collected Date/Time: 06/20/2016 13:16
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	62	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:38	JAN	11096-82-5	

Lab Sample ID: S74228.20
Sample Tag: S-11 (Area-11)
Collected Date/Time: 06/20/2016 13:18
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	89	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:09	JAN	11096-82-5	

Lab Sample ID: S74228.21
Sample Tag: S-12 (Area-11)
Collected Date/Time: 06/20/2016 13:20
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	88	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 14:05	JAN	11096-82-5	

Lab Sample ID: S74228.22
Sample Tag: A-1 (Area-8)
Collected Date/Time: 06/20/2016 00:01
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	96	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:31	JAN	11096-82-5	

Lab Sample ID: S74228.23
Sample Tag: A-1 (Area-11)
Collected Date/Time: 06/20/2016 00:01
Matrix: Soil
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Inorganics								
Total Solids	85	%	1	SM2540B	06/21/16 11:10	JBL		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:43	JAN	11096-82-5	

Lab Sample ID: S74228.24
Sample Tag: Plant-3-F3A-(Q)
Collected Date/Time: 06/20/2016 13:30
Matrix: Solid
COC Reference: 097857

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:54	JAN	11096-82-5	

Lab Sample ID: S74228.25
Sample Tag: Plant-3-F3A-(R)
Collected Date/Time: 06/20/2016 13:40
Matrix: Solid
COC Reference: 097858

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 13:49	JAN	11096-82-5	

Lab Sample ID: S74228.26
Sample Tag: Plant-3-F3A-(S)
Collected Date/Time: 06/20/2016 13:50
Matrix: Solid
COC Reference: 097858

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 16:56	JAN	11096-82-5	

Lab Sample ID: S74228.27
Sample Tag: Plant-3-F3A-(T)
Collected Date/Time: 06/20/2016 14:00
Matrix: Solid
COC Reference: 097858

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	6.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	06/21/16 13:27	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	06/22/16 17:02	JAN	11096-82-5	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

097856

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3340 RANGER RD
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.COM SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173 SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 24 HOUR RUSH

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PUBS
74228.01	6/20	1230	S-1 (AREA-8)	S	1	1							X
.02		1232	S-2 (AREA-8)	S	1	1							X
.03		1234	S-3 (AREA-8)	S	1	1							X
.04		1236	S-4 (AREA-8)	S	1	1							X
.05		1238	S-5 (AREA-8)	S	1	1							X
.06		1240	S-6 (AREA-8)	S	1	1							X
.07		1242	S-7 (AREA-8)	S	1	1							X
.08		1244	S-8 (AREA-8)	S	1	1							X
.09		1246	S-9 (AREA-8)	S	1	1							X
.10		1300	S-1 (AREA-11)	S	1	1							X
.11		1302	S-2 (AREA-11)	S	1	1							X
.12		1304	S-3 (AREA-11)	S	1	1							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION: RMA ☐ Sampler DATE: 6/20 TIME: 1500
RECEIVED BY: SIGNATURE/ORGANIZATION: PM STORAGE DATE: 6/20 TIME: 1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION: RMA DATE: 6/20 TIME: 1750
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: 6/20/16 TIME: 17:01

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Merit Fedex DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: Megan Delcode DATE: 6/21/16 TIME: 800

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

NOTES: TEMP. ON ARRIVAL 16.5 6.0 MC

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

097857

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3340 RANGER RD
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: — P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: AP@PMENV.COM ☑ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-4173-7
SAMPLER(S) - PLEASE PRINT/SIGN NAME: RMA

TURNAROUND TIME REQUIRED ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 24 Hour Rush

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PLOTS	Special Instructions
74228.13	6/20	1306	S-4 (AREA-11)	S	1	1							X	
.14		1308	S-5 (AREA-11)	S	1	1							X	
.15		1310	S-6 (AREA-11)	S	1	1							X	
.16		1312	S-7 (AREA-11)	S	1	1							X	
.17		1314	S-8 (AREA-11)	S	1	1							X	
.18		1315	S-9 (AREA-11)	S	1	1							X	
.19		1316	S-10 (AREA-11)	S	1	1							X	
.20		1318	S-11 (AREA-11)	S	1	1							X	
.21		1320	S-12 (AREA-11)	S	1	1							X	
.22		—	A-1 (AREA-8)	S	1	1							X	
.23		—	A-1 (AREA-11)	S	1	1							X	
.24		1330	PLANT-3-F3A-(C9)	C	1	1							X	DECONSTRUCTIVE CONCRETE

RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA ☒ Sampler	DATE 6/20	TIME 1500
RECEIVED BY: SIGNATURE/ORGANIZATION	PM STORAGE	DATE 6/20	TIME 1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA	DATE 6/20	TIME 1700
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 6/20	TIME 17:01

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit Freezer	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	Megan Chilcote	DATE 6/21/16	TIME 800

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

NOTES: TEMP. ON ARRIVAL 16.5 mc 6.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 3 OF 3

097858

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: CASEY ARMSTRONG
COMPANY: PM ENVIRONMENTAL
ADDRESS: 3340 RANGER RD
CITY: LANSING STATE: MI ZIP CODE: 48906
PHONE NO.: 517.321.3331 FAX NO.: — P.O. NO.:
E-MAIL ADDRESS: ARMSTRONG@PMENV.COM QUOTE NO.:

INVOICE TO

CONTACT NAME: APP@PMENV.COM NAME:
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-41737 SAMPLER(S) - PLEASE PRINT/SIGN NAME: RMA

TURNAROUND TIME REQUIRED: ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER 24 HOUR RUSH

DELIVERABLES REQUIRED: ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

Special Instructions: C= CONCRETE

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB's
74228.25	6/20	1340	PLANT-3- F3A-(R)	C	1	1							X
.26	↓	1350	PLANT-3- F3A-(S)	C	1	1							X
.27	↓	1400	PLANT-3- F3A-(T)	C	1	1							X

			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA	☒ Sampler	6/20	1500
RECEIVED BY: SIGNATURE/ORGANIZATION	PM STORAGE		6/20	1500
RELINQUISHED BY: SIGNATURE/ORGANIZATION	RMA		6/20	1700
RECEIVED BY: SIGNATURE/ORGANIZATION			6/20/16	17:04

			DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Merit Freezer			
RECEIVED BY: SIGNATURE/ORGANIZATION	Megan Delcoate		6/21/16	800

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

NOTES: TEMP. ON ARRIVAL: 4.5 mc 6.0

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Appendix C
(Clarifier - Water)

PM ENVIRONMENTAL Environmental & Engineering Services

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: MIR000002527
2. Page 1 of
3. Emergency Response Phone: 800-678-9236
4. Manifest Tracking Number: 007988775 FLE

GENERATOR

5. Generator's Name and Mailing Address
Beaver Plants 2 & 3
3000-3001 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PUMPER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111239563

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

8. Designated Facility Name and Site Address
PUMPER'S ENVIRONMENTAL SERVICES
10075 SEARAC INDUSTRIAL
BYRON CENTER, MI 49315
616-877-9230
U.S. EPA ID Number: MIR111239563
Facility's Phone:

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. OTHER WASTE	1	TT	3500	G	
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	
	3. STORM SEWER CLEANOUTS	1	TT		G	
	4.	0				

14. Special Handling Instructions and Additional Information

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

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

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

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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-878-3956
4. Manifest Tracking Number: 007989029 FLE

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111225561

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

8. Designated Facility Name and Site Address
PLUMER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315
616-877-3930
U.S. EPA ID Number: MIK111225560

Facility's Phone:

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. OTHER WASTE	1	TT	12,000 10000	G	035L
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	035L
	3. STORM SEWER CLEANOUTS	1	TT		G	035L
	4.					

14. Special Handling Instructions and Additional Information
Contaminated 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: A Robert Himme
Signature:
Month: 7 Day: 30 Year: 15

TRANSPORTER 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.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brad Smith
Signature:
Month: 7 Day: 30 Year: 15

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.

DESIGNATED FACILITY'S 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
MIK 111 229 563		800-678-3996	00797925 FLE

GENERATOR

5. Generator's Name and Mailing Address

Plummer's Environmental Serv.
10075 Sedroc Industrial Dr. SW
Byron Center MI 49315

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name 800-678-3996

Plummer's Environmental Services

U.S. EPA ID Number

MIK111229563

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Plummer's Environmental Services, Inc.
10075 Sedroc Industrial Dr.
Byron Center MI 49315

U.S. EPA ID Number

MIK111229563

Facility's Phone:

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. OTHER WASTES	1	TT	3,000	G	0251
	2. FLOOR DRAIN/PIT CLEANOUTS	1	TT		G	0251
	3. STORM SEWER CLEANOUTS	1	TT		G	0251
	4.					

14. Special Handling Instructions and Additional Information

181 Contaminated Rain water / Sludge

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: John Lasley

Signature

Month 12 Day 4 Year 15

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: John Lasley

Signature

Month 12 Day 4 Year 15

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: Dan Schuitman

Signature

Month 12 Day 14 Year 15

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
MIR000007377		800 424 9300	007994988 FLE

GENERATOR

5. Generator's Name and Mailing Address
Roser Plants 2 & 3
2500-2801 WEST SAGINAW ST
Lansing MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
PLUMBER'S ENVIRONMENTAL SERVICES

U.S. EPA ID Number
MIR000003363

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
19975 SEROC INDUSTRIAL
BIRCH RUN, MI 48415 616-877-3950

U.S. EPA ID Number
MIR000003363

Facility's Phone:

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. OTHER WASTE	1	TT	G		129L
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		129L
	3. STORM SEWER CLEANOUTS	1	TT	G		129L
	4. #41519 Plumb M. Inlet Well	0				

14. Special Handling Instructions and Additional Information
10,000

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 12 | Day 8 | Year 15

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: Doug Dennis | Signature | Month 12 | Day 8 | Year 15

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: MIDSW700827
2. Page 1 of
3. Emergency Response Phone: 800-678-3936
4. Manifest Tracking Number: 007994990 FLE

GENERATOR

5. Generator's Name and Mailing Address: Moore Plants 2 & 3, 2800-3801 WEST SAGINAW ST, Lansing, MI 48917
Generator's Site Address (if different than mailing address)
Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES, 10075 SEROC INDUSTRIAL, EATON CENTER, MI 49315
U.S. EPA ID Number: MIR111229563
Facility's Phone: 616-877-3930

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. OTHER WASTE	1	TF	G		028L
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TF	G		028L
	3. STORM SEWER CLEANOUTS	1	TF	G		031L
	4.	0				

14. Special Handling Instructions and Additional Information
10,000

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

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

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

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 [illegible] 2. Page 1 of 3. Emergency Response Phone [illegible] 4. Manifest Tracking Number **007994989 FLE**

5. Generator's Name and Mailing Address [illegible]
3950-2601 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name ENVIRONMENTAL SERVICES — U.S. EPA ID Number MIR111239563

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

8. Designated Facility Name and Site Address [illegible]
10875 SUNOC INDUSTRIAL
DIXON CENTER, MI 48215 616-877-3930 — U.S. EPA ID Number MIR111239563

Facility's Phone:

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. OTHER WASTE	1	TT	5000	G	D39L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	5000	G	D39L		
	3. OTHER SEWER CLEANOUTS	1	TT	5000	G	D39L		
	4.							

14. Special Handling Instructions and Additional Information

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 [illegible] Signature [illegible] Month Day Year

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

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

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
MIR000178327			007988452 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number: MIR111233563

8. Designated Facility Name and Site Address
PLUMMER'S ENVIRONMENTAL SERVICES
10075 SEDROC INDUSTRIAL
BYRON CENTER, MI 49315

U.S. EPA ID Number: MIR111233563

Facility's Phone: 616-877-3830

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. OTHER WASTE	1		10,000 FT	G	029L
	2. FLOOR DRAIN/ PIT CLEANOUTS	1		FT	G	029L
	3. STORM SEWER CLEANOUTS	1		FT	G	031L
	4.	0				

14. Special Handling Instructions and Additional Information
98.1 Contaminated Rain 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: X ROBERT HILLHOUSE — Signature: [signature] — Month: 10 Day: 22 Year: 15

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: John Lasher — Signature: [signature] — Month: 10 Day: 22 Year: 15

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: DAN SCHLICTMAN — Signature: [signature] — Month: 10 Day: 22 Year: 15

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
MIV000700627		800-878-9956	007988453 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111225563

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 SELKOC INDUSTRIAL
BYRON CENTER, MI 49315 — 616-877-9930
U.S. EPA ID Number: MIK111225563

Facility's Phone:

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. OTHER WASTE	1	TF	1400	G	999
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TF		G	999
	3. STORM SEWER CLEANOUTS	1	TF		G	999
	4.	0				

14. Special Handling Instructions and Additional Information
Form for TSI Containment Ram Wash

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: Chris McMahon Agent Lacee Trust — Signature — Month 10 Day 21 Year 15

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: John Nelson — Signature — Month 10 Day 21 Year 15

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: Ken Hendrickson — Signature — Month 10 Day 21 Year 15

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: MIDS97700827 | 2. Page 1 of | 3. Emergency Response Phone: 800-578-3996 | 4. Manifest Tracking Number: 007988456 FLE

GENERATOR

5. Generator's Name and Mailing Address
Moore Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111329563

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

8. Designated Facility Name and Site Address
PLUMMER'S ENVIRONMENTAL SERVICES
10075 SIBROC INDUSTRIAL
BYRON CENTER, MI 49315
Facility's Phone: 616-877-3930
U.S. EPA ID Number: MIK111329563

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. OTHER WASTE	1	TT	1000	G	D29L
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	D29L
	3. STORM SEWER CLEANOUTS	1	TT		G	D29L
	4.	0				

14. Special Handling Instructions and Additional Information
From line 9B.1 CONTAMINATED RAW 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: ROBERT LIMPOS — Signature: [signature] — Month: 10 Day: 22 Year: 15

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: DANIEL N. [illegible] — Signature: [signature] — Month: 10 Day: 22 Year: 15

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: DAN SCHULTMAN — Signature: [signature] — Month: 10 Day: 22 Year: 15

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
MIDS80700827		800-375-3996	007988582 FLE

GENERATOR

5. Generator's Name and Mailing Address
Lacer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
FLEMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number
MIR111225563

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

8. Designated Facility Name and Site Address
FLEMER'S ENVIRONMENTAL SERVICES
10075 SHIRAC INDUSTRIAL
BYRON CENTER, MI 49315
616-877-3930
U.S. EPA ID Number
MIK111225563

Facility's Phone:

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. OTHER WASTE	1	TBOO	G		D251
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		D39
	3. STORM SEWER CLEANOUTS	1	TT	G		D511
	4. 3,000	0				

14. Special Handling Instructions and Additional Information
From Bldg 78.1 CONTAMINATED RAIN 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 | Signature | Month 10 | Day 27 | Year 15

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: DAVE NILAND | Signature | Month 10 | Day 27 | Year 15

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 10 | Day 27 | Year 15

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

DESIGNATED FACILITY TO GENERATOR

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
MIR000162627		616-372-9555	007988645 FLE

GENERATOR

5. Generator's Name and Mailing Address
Kwal Plants 2 & 3
3800-3801 WEST SHERMAN ST
Lansing MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
Robert's Environmental Services

U.S. EPA ID Number
MIR000125583

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Robert's Environmental Services
1000 Scenic Industrial
Sturgis Center MI 49093
616-477-9550

U.S. EPA ID Number
MIR000125583

Facility's Phone:

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. OTHER WASTE	1		2000		
	2. FLOOR DRAIN/ PIT CLEANOUTS	2				
	3. STORM SEWER CLEANOUTS	1				
	4.					

14. Special Handling Instructions and Additional Information
981 CONTAMINATED 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	Signature	Month	Day	Year
Robert Wilcox		12	2	15

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
Dave Richards		12	2	15
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
Dan Schuitema		12	2	15

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: MIDS80700827
2. Page 1 of
3. Emergency Response Phone: 800-678-5936
4. Manifest Tracking Number: 007988907 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEAROC INDUSTRIAL
BIRCH CENTER, MI 48415 616-877-3930
U.S. EPA ID Number: MIR111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000	G	D29L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	D29L		
	3. STORM SEWER CLEANOUTS	1	TT		G	D31L		
	4.	0						

14. Special Handling Instructions and Additional Information
9B1 NON HAZARDOUS CONTACT RAIN 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: K ROBERT PHILLIPS
Signature:
Month: 9 Day: 28 Year: 15

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: ROBERT CLARK
Signature:
Month: 9 Day: 28 Year: 15

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: DAN SCHMITMAN
Signature:
Month: 9 Day: 28 Year: 15

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

DESIGNATED FACILITY'S 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
	MIDS987006827		800-678-9336	007988908 FLE

GENERATOR

5. Generator's Name and Mailing Address
Razor Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930
Facility's Phone:
U.S. EPA ID Number: MIR111229563

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. OTHER WASTE	1	TT	10,000 G		029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		029L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
9131 NON HAZARDOUS CONTACT RAIN 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: X ROBERT HILLMER — Signature — Month 9 Day 28 Year 15

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: ROBERT CLAFLIN — Signature — Month 9 Day 28 Year 15

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: DAN SCHUITMAN — Signature — Month 9 Day 28 Year 15

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

DESIGNATED FACILITY'S 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
MID980700627		800-878-3326	007988909 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 3 & 3
3500-3801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
PLUMMER'S ENVIRONMENTAL SERVICES
10075 SELKIC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3550

U.S. EPA ID Number: MIR111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000	G	029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	029L		
	3. STORM SEWER CLEANOUTS	1	TT		G	051L		
	4.	0						

14. Special Handling Instructions and Additional Information
9B4 NON HAZARDOUS CONTACT RAIN 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: X ROBERT HILLMAN — Signature — Month 9 Day 28 Year 15

INTL

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: ROBERT CHAPLIN — Signature — Month 9 Day 29 Year 15

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 9 Day 9 Year 15

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
MID980700827		800-678-3936	007988910 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2900-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111223563

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

8. Designated Facility Name and Site Address: PLUMMER'S ENVIRONMENTAL SERVICES
10075 BERLOC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930 — U.S. EPA ID Number: MIR111223563

Facility's Phone:

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. OTHER WASTE	1	TT	6,000		~~023L~~		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT			023L		
	3. STORM SEWER CLEANOUTS	1	TT			031L		
	4.	0						

14. Special Handling Instructions and Additional Information

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: ROBERT HILLMAN — Signature — Month: 09 Day: 23 Year: 15

INTL

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: M PLUMMER — Signature — Month: 09 Day: 28 Year: 15

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: JON HENDRICKSON — Signature — Month: 10 Day: 18 Year: 15

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

DESIGNATED FACILITY'S 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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-378-3525
4. Manifest Tracking Number: 007988911 FLE

5. Generator's Name and Mailing Address: Racer Plants 2 & 3, 2800-2801 WEST SAGINAW ST, Lansing, MI 48917
Generator's Site Address (if different than mailing address)
Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111229569

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES, 10075 SEDRO INDUSTRIAL, BYRON CENTER, MI 49315, 616-877-3330
U.S. EPA ID Number: MIK111229569
Facility's Phone:

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. OTHER WASTE	1	TT	1000 G		029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		029L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
From line 7B.1 CONTAMINATED RAIN 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: ROBERT HAYNOR
Signature
Month: 09 Day: 29 Year: 15

INTL

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: DANE WILLIAMS
Signature
Month: 9 Day: 29 Year: 15
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: DAN SCHLITTLER
Signature
Month: 9 Day: 29 Year: 15

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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-678-5326
4. Manifest Tracking Number: 007988912 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 SEMAC INDUSTRIAL
WHITE CLOUD, MI 49515
616-877-3930
U.S. EPA ID Number: MIK111229563

Facility's Phone:

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. OTHER WASTE	1	TT	600 G		029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		029L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
From Ins 7B-1 CONTAMINATED RAIN 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: ROBERT WILHOIT
Signature
Month: 9 Day: 30 Year: 15

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: DAVE WILLIAMS
Signature
Month: 9 Day: 30 Year: 15

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: Tim Hamilton
Signature
Month: 9 Day: 30 Year: 15

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

DESIGNATED FACILITY'S 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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-878-5996
4. Manifest Tracking Number: 007988913 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
3800-3801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111329563

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 BYROC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-9930
Facility's Phone:
U.S. EPA ID Number: MIK111329563

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. OTHER WASTE	1	TT	1000 G		028L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	6		028L		
	3. STORM SEWER CLEANOUTS	1	TT	6		028L		
	4.	0						

14. Special Handling Instructions and Additional Information
From Plant 7B-1 CONTAMINATED RAW 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: [illegible] Signature: [signature] Month: 9 Day: 29 Year: 15

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: [illegible] Signature: [signature] Month: 9 Day: 29 Year: 15
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: DAN SCHUITMAN Signature: [signature] Month: 9 Day: 29 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY'S COPY

total 305,000 gallons

7600

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
MID980700627		800-878-3926	007988914 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2600-2601 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111225563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
EATON CENTER, MI 49315 616-877-3550 — U.S. EPA ID Number: MIR111225563

Facility's Phone:

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. OTHER WASTE	1	TT	1000 G		035L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		035L		
	3. STORM SEWER CLEANOUTS	1	TT	G		035L		
	4.	0						

14. Special Handling Instructions and Additional Information
from the TBT CONTAMINATED RAIN 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: ROBERT HAMADE — Signature — Month / Day / Year

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: [illegible] — Signature — Month: 9 Day: 28 Year: 15

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: DAN SCHMITMAN — Signature — Month: 9 Day: 28 Year: 15

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
MIDR00700527		800-878-3326	007988915 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: PLUMMER'S ENVIRONMENTAL SERVICES
10075 SEDROC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-9530
U.S. EPA ID Number: MIK111229563
Facility's Phone:

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. OTHER WASTE	1	TT	1000 G		0211		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		0211		
	3. STORM SEWER CLEANOUTS	1	TT	G		0211		
	4.	0						

14. Special Handling Instructions and Additional Information
From Line 9B-1 Contaminated Rail Ballast

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: [illegible] — Signature — Month — Day — Year

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
[illegible]		7	28	15
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
Dan Schuitema		7	28	15

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

DESIGNATED FACILITY'S 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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-678-3926
4. Manifest Tracking Number: 007988916 FLE

GENERATOR

5. Generator's Name and Mailing Address
Kaiser Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: FLEGER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: FLEGER'S ENVIRONMENTAL SERVICES
10075 SELKOC INDUSTRIAL
BYRON CENTER, MI 49315
616-877-3930
U.S. EPA ID Number: MIK111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000	G	029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT			029L		
	3. STORM SEWER CLEANOUTS	1	TT			031L		
	4.	0						

14. Special Handling Instructions and Additional Information
931 NON HAZARDOUS CONTACT RAW 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: Robert Hawk
Signature:
Month: 9 Day: 30 Year: 15

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: ROBERT CRAIG
Signature:
Month: 9 Day: 30 Year: 15

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: Tom Leahy
Signature:
Month: 9 Day: 30 Year: 15

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

DESIGNATED FACILITY'S 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
MID980700827		800-678-9996	007988917 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-3601 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES
10075 SERVICE INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930
U.S. EPA ID Number: MIR111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000 G		023L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		023L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
023L NON HAZARDOUS CONTACT RAW 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: Brian Hilyard — Signature — Month: 9 Day: 30 Year: 15

TRANSPORTER / 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.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ROBERT CURTIS — Signature — Month: 9 Day: 30 Year: 15

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: Dan Hamilton — Signature — Month: 9 Day: 30 Year: 15

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

DESIGNATED FACILITY'S 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
MID980700627		800-678-1335	007988918 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229560

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 SEMCO INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3350 — U.S. EPA ID Number: MIK111229560

Facility's Phone:

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. OTHER WASTE	1	TT	10,000		039L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	1		039L		
	3. STORM SEWER CLEANOUTS	1	TT	1		039L		
	4.	0						

14. Special Handling Instructions and Additional Information
934 NON HAZARDOUS CONTACT RAIN 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: ROBERT [illegible] — Signature — Month 10 Day 1 Year 15

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: ROBERT CLAFLIN — Signature — Month 10 Day 1 Year 15

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: DAN SCHLITTMAN — Signature — Month 10 Day 1 Year 15

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

DESIGNATED FACILITY'S 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: MID980700627
2. Page 1 of
3. Emergency Response Phone: 800-878-3996
4. Manifest Tracking Number: 007988919 FLE

GENERATOR

5. Generator's Name and Mailing Address
Motor Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111223563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315
Facility's Phone: 616-877-3550
U.S. EPA ID Number: MIK111223563

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. OTHER WASTE	1	TT	1000 G		022L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		022L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
Farm Inc 78-1 CONTAINATED RAIN 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: ROBERT HIKADE
Signature:
Month: 10 Day: 1 Year: 15

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: DAVE NELSON
Signature:
Month: 10 Day: 1 Year: 15

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: DAN SCHUITMAN
Signature:
Month: 10 Day: 1 Year: 15

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

DESIGNATED FACILITY'S 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: MIDR507000827
2. Page 1 of
3. Emergency Response Phone: 800-578-9996
4. Manifest Tracking Number: 007988920 FLE

5. Generator's Name and Mailing Address
Reser Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315
616-977-3950
U.S. EPA ID Number: MIK111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000	G	~~029L~~		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	0	G	029L		
	3. STORM SEWER CLEANOUTS	1	TT	0	G	031L		
	4.	0						

14. Special Handling Instructions and Additional Information
981 Contaminated Rain 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: Robert Wilmot
Signature
Month: 9 Day: 29 Year: 15

INTL

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: Brad Smith
Signature
Month: 9 Day: 29 Year: 15
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: Dan Schweitzer
Signature
Month: 9 Day: 29 Year: 15

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

DESIGNATED FACILITY'S 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
MIDS80706827		800-878-3295	007988921 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2900-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address: PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEXTON INDUSTRIAL
BYRON CENTER, MI 49315 — U.S. EPA ID Number: MIR111229563

Facility's Phone: 616-877-3330

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. OTHER WASTE	1	TT	10000		023L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		025L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
From Pit 78-1 CONTAMINATED RAIN 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: RAPAT HIWARE — Signature — Month 7 Day 30 Year 15

INTL

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: DAVE N. NASH — Signature — Month 7 Day 30 Year 15

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: Tom Hamilton — Signature — Month 7 Day 30 Year 15

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

DESIGNATED FACILITY'S 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
MID980700627		800-678-3936	007988945 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
PLUMMER'S ENVIRONMENTAL SERVICES
10075 SEBRO INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930
U.S. EPA ID Number: MIR111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10000 G		WASL		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		033L		
	3. STORM SEWER CLEANOUTS	1	TT	G		031L		
	4.	0						

14. Special Handling Instructions and Additional Information
From Bldg 981 CONTAMINATED RAW 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: ROBERT WRIGHT — Signature — Month 10 Day 1 Year 15

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: DAVE WILLIAMS — Signature — Month 10 Day 1 Year 15

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: DAVID SCHULTMAN — Signature — Month 10 Day 1 Year 15

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

DESIGNATED FACILITY'S 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
	MID980700827		800-878-5555	007988946 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIX111229563

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

8. Designated Facility Name and Site Address
PLUMMER'S ENVIRONMENTAL SERVICES
10075 SEARCC INDUSTRIAL
BYRON CENTER, MI 49315 — 616-877-3330
U.S. EPA ID Number: MIX111229563

Facility's Phone:

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. OTHER WASTE	1	TT	1000 G		D29L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		D29L		
	3. STORM SEWER CLEANOUTS	1	TT	G		D29L		
	4.	0						

14. Special Handling Instructions and Additional Information
From Line 7B-1 CONTAMINATED RAIN 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: [illegible] — Signature — Month 10 Day 1 Year 15

INTL

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: DAVE NEIL — Signature — Month 10 Day 1 Year 15

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: DAN SCHUITEMAN — Signature — Month 10 Day 1 Year 15

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

DESIGNATED FACILITY'S 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
MIR000010827		800-878-5996	007988947 FLE

GENERATOR

5. Generator's Name and Mailing Address: Racer Plants 2 & 3, 2800-2801 WEST SAGINAW ST, Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: ENVIRONMENTAL SERVICES, 10075 SEIBOC INDUSTRIAL, BYRON CENTER, MI 49315, 616-877-3930 — U.S. EPA ID Number: MIK111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10 000 G		0171		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	G		0191		
	3. STORM SEWER CLEANOUTS	1	TT	G		051L		
	4.	0						

14. Special Handling Instructions and Additional Information

9131 UN HAZARDOUS CONTACT RAW 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: Robert Wilcox — Signature — Month 10 Day 1 Year 15

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: ROBERT CLAYTON — Signature — Month 10 Day 1 Year 15

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: Dan Schuitman — Signature — Month 10 Day 1 Year 15

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

DESIGNATED FACILITY'S 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: MIR000700627
2. Page 1 of
3. Emergency Response Phone: 800-878-3936
4. Manifest Tracking Number: 007988948 FLE

5. Generator's Name and Mailing Address
Razor Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEMAC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930
Facility's Phone:
U.S. EPA ID Number: MIR111229563

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. OTHER WASTE	1	TT	10,000	G	03M		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	03M		
	3. STORM SEWER CLEANOUTS	1	TT		G	03M		
	4.	0						

14. Special Handling Instructions and Additional Information
9B2 NON HAZARDOUS CONTRACTED 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: Robert Hikade
Signature:
Month: 10 Day: 2 Year: 15

INTL
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: ROBERT CLAPPER
Signature:
Month: 10 Day: 2 Year: 15
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: Dan Schmitmann
Signature:
Month: 10 Day: 2 Year: 15

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

DESIGNATED FACILITY'S 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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-678-3926
4. Manifest Tracking Number: 007988949 FLE

5. Generator's Name and Mailing Address
Kaiser Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUNKER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
PLUNKER'S ENVIRONMENTAL SERVICES
10075 SERVICE INDUSTRIAL
BYRON CENTER, MI 49315
616-877-3330
U.S. EPA ID Number: MIR111229563

Facility's Phone:

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. OTHER WASTE	1	TT	10000	G	0251		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	0251		
	3. STORM SEWER CLEANOUTS	1	TT		G	0251		
	4.	0						

14. Special Handling Instructions and Additional Information
ORL NON HAZARDOUS OUTFALL RAIN 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: Robert Hinde
Signature:
Month: 10 Day: 2 Year: 15

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: ROBERT CRATTY
Signature:
Month: 10 Day: 2 Year: 15

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: Dan Schuitmaker
Signature:
Month: 10 Day: 2 Year: 15

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
MID980700827		800-878-3356	007988953 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: PLUMMER'S ENVIRONMENTAL SERVICES
10073 SEAROC INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3950
U.S. EPA ID Number: MIK111229563

Facility's Phone:

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. OTHER WASTE	1	TT	1000	G	028L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	028L		
	3. STORM SEWER CLEANOUTS	1	TT		G	028L		
	4.	0						

14. Special Handling Instructions and Additional Information
028L NON HAZARDOUS CONTACT RAIN 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: ROBERT HAVENS — Signature — Month: 9 — Day: 29 — Year: 15

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: ROBERT CHAPLIN — Signature — Month: 9 — Day: 29 — Year: 15

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: STEVE WOLF — Signature — Month: 9 — Day: 29 — Year: 15

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

DESIGNATED FACILITY'S 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
	MIDR070827		800-878-5555	007988954 FLE

GENERATOR

5. Generator's Name and Mailing Address
Nexer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111235563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEGER INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3330
U.S. EPA ID Number: MIR111235563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000		0281
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT	0		0281
	3. STORM SEWER CLEANOUTS	1	TT	0		0311
	4.	0				

14. Special Handling Instructions and Additional Information
9B4 NON HAZARDOUS CONTACT RAW 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: Robert Hunt — Signature — Month 9 Day 29 Year 15

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: ROBERT CHATOU — Signature — Month 9 Day 29 Year 15

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: Steve Ives — Signature — Month 1 Day 29 Year 15

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

DESIGNATED FACILITY'S 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: MIR000007237
2. Page 1 of
3. Emergency Response Phone: 800-592-2626
4. Manifest Tracking Number: 007988975 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2901 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIK111222563

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

8. Designated Facility Name and Site Address
PLUMER'S ENVIRONMENTAL SERVICES
10075 SEMCO INDUSTRIAL
BYRON CENTER, MI 49315
Facility's Phone: 616-877-3930
U.S. EPA ID Number: MIK111222563

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. OTHER WASTE	1	TT	13000		029L		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT			039L		
	3. STORM SEWER CLEANOUTS	1	TT			031L		
	4.	0						

14. Special Handling Instructions and Additional Information
NON HAZ CONTAINED RAIN 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: Robert Hilbert
Signature:
Month: 10 Day: 1 Year: 15

INTL

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: DAN WHITPY
Signature:
Month: 10 Day: 1 Year: 15
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: DAN SCHUITMAN
Signature:
Month: 10 Day: 1 Year: 15

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

DESIGNATED FACILITY'S 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
MID980700827		800-678-9935	007989021 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111223563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315 — 616-877-3950
U.S. EPA ID Number: MIK111223563

Facility's Phone:

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. OTHER WASTE	1	TT	10,000	G	0231
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	0231
	3. STORM SEWER CLEANOUTS	1	TT		G	0311
	4.	1	9			

14. Special Handling Instructions and Additional Information
NON Hazardous Solid Paint Waste

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: Robert Hilmer — Signature — Month 9 Day 29 Year 15

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 9 Day 29 Year 15

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 9 Year

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

DESIGNATED FACILITY'S 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: MID980700627 | 2. Page 1 of | 3. Emergency Response Phone: 800-678-1996 | 4. Manifest Tracking Number: 007989022 FLE

GENERATOR

5. Generator's Name and Mailing Address: [illegible]
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: [illegible] ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111225563

7. Transporter 2 Company Name: [illegible] ENVIRONMENTAL SERVICES — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: [illegible] ENVIRONMENTAL SERVICES
10075 SEMCO INDUSTRIAL
BYRON CENTER, MI 49315 616-877-3930 — U.S. EPA ID Number: MIR111225563

Facility's Phone:

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. OTHER WASTE	1	TT	1000	G	0291		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	0291		
	3. STORM SEWER CLEANOUTS	1	TT		G	0311		
	4.	0						

14. Special Handling Instructions and Additional Information

Form Line 28-1 CONTAMINATED RAW 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: Robert Hannah — Signature: [signature] — Month 7 Day 30 Year 15

INTL

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: [illegible] — Signature: [signature] — Month 7 Day 30 Year 15

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: [illegible] — Signature: [signature] — Month 7 Day 30 Year 15

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

DESIGNATED FACILITY'S 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
MID980700827		800-878-9556	007989023 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229363

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 SEAROC INDUSTRIAL
BYRON CENTER, MI 49315 — 616-877-9330
U.S. EPA ID Number: MIK111229363

Facility's Phone:

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. OTHER WASTE	1	TT	12,000	G	D239		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	D39L		
	3. STORM SEWER CLEANOUTS	1	TT		G	D39L		
	4.	0						

14. Special Handling Instructions and Additional Information
Contaminated Rain 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: Ken Oberle III — Signature — Month: 7 Day: 30 Year: 15

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: Brad Smith — Signature — Month: 7 Day: 30 Year: 15

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: 7 Day: 30 Year: 15

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

DESIGNATED FACILITY'S 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
	MID980700827		800-878-5996	007989024 FLE

5. Generator's Name and Mailing Address
Power Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
PLUMBER'S ENVIRONMENTAL SERVICES

U.S. EPA ID Number
MIK111233563

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SIBLEY INDUSTRIAL
BYRON CENTER, MI 49315

U.S. EPA ID Number
MIK111233563

Facility's Phone: 616-877-3550

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. OTHER WASTE	1	TT	500	G	D2RU
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	D2RU
	3. STORM SEWER CLEANOUTS	1	TT		G	D2RU
	4.	0				

14. Special Handling Instructions and Additional Information
Form Line 9B-1 CONTAMINATED RAIN 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: DAVID HIVNOR
Signature:
Month: 10 Day: 2 Year: 15

INTL
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: DAVE NILES
Signature:
Month: 10 Day: 2 Year: 15

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: DAN SCHUITMAN
Signature:
Month: 10 Day: 2 Year: 15

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

DESIGNATED FACILITY'S 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 MIDS80704827	2. Page 1 of	3. Emergency Response Phone 800-878-3996	4. Manifest Tracking Number 007989026 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111223563

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

8. Designated Facility Name and Site Address: PLUMER'S ENVIRONMENTAL SERVICES
10075 SEROC INDUSTRIAL
BYRON CENTER, MI 49315 — U.S. EPA ID Number: MIR111223563

Facility's Phone: 616-877-3930

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. OTHER WASTE	1	TT	6000	G	0221		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	0221		
	3. STORM SEWER CLEANOUTS	1	TT		G	0311		
	4.	0						

14. Special Handling Instructions and Additional Information
From Line 9B-1 CONTAMINATED RAIN 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: Robert H. Wade — Signature: [signature] — Month: 10 — Day: 12 — Year: 15

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: Dan Schuitman — Signature: [signature] — Month: 10 — Day: 12 — Year: 15

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: Dan Schuitman — Signature: [signature] — Month: 10 — Day: 12 — Year: 15

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
	MIDS80700837		800-592-3924	007989028 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PLUMBER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address
PLUMBER'S ENVIRONMENTAL SERVICES
10075 SELKOC INDUSTRIAL
BYRON CENTER, MI 49315
Facility's Phone: 616-877-3930
U.S. EPA ID Number: MIK111229563

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. OTHER WASTE	1	TT	13,000		0291		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TT		G	0291		
	3. STORM SEWER CLEANOUTS	1	TT		G	0511		
	4.	0						

14. Special Handling Instructions and Additional Information
Non Hazardous Rain 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: [illegible] — Signature: [signature] — Month: 9 — Day: 30 — Year: 15

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: Daryl Heiney — Signature: [signature] — Month: 9 — Day: 30 — Year: 15

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: [illegible] — Signature: [signature] — Month: 9 — Day: 30 — Year: 15

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

DESIGNATED FACILITY'S COPY

Appendix C
(Clarifier - Sediment)

PM ENVIRONMENTAL Environmental & Engineering Services

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
MIR000040337		800-482-7931	007994545 FLE

5. Generator's Name and Mailing Address
Asset Plants 2 & 3
2929-2601 WEST SAGINAW ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PUROLATOR ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR000159749

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

8. Designated Facility Name and Site Address
EQ DETROIT INC
1923 FRONTAGE ST.
DETROIT, MI 48211

U.S. EPA ID Number: MID048239359

Facility's Phone:

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 Hazardous Non Regulated Liquid Waste	1	CM	1440	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #1385100ET

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 11 Day 10 Year 14

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 11 Day 10 Year 14

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

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
MID980700827		800-878-3396	007995057 FLE

GENERATOR

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address
EQ DETROIT INC
1923 FREDERICK ST,
DETROIT, MI 48211
Facility's Phone: — 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 Hazardous Non Regulaed Liquid Waste	1	TT CM	800	G	029L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #1152050DET
9B1 Contaminated Water/ Sludge

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: X Doug Spencer On Behalf of RacerTrust — Signature — Month 12 Day 10 Year 15

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: John Lastovy — Signature — Month 12 Day 10 Year 15
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. LW 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: Joseph Kosky — Signature — Month 12 Day 10 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

8741470

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: MID980700827
2. Page 1 of: 1
3. Emergency Response Phone: 800-878-3996
4. Manifest Tracking Number: 007988586 FLE

5. Generator's Name and Mailing Address: Racer Plants 2 & 3, 2800-2801 WEST SAGINAW ST, Lansing, MI 48917
Generator's Site Address (if different than mailing address)
Generator's Phone:

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address: EQ DETROIT INC, 1923 FREDERICK ST, DETROIT, MI 48211 — U.S. EPA ID Number: MID980991566
Facility's Phone: 313-347-1300

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 Hazardous Non Regulated Liquid Waste (RQ)	1	FT	3000	G	029L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #J1158050ET

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: ROBERT HIKADE — Signature: [signature] — Month 10 Day 29 Year 15

INTL
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

TRANSPORTER
Transporter signature (for exports only):
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ROBERT CLAFLIN — Signature: [signature] — Month 10 Day 30 Year 15
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. H141 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: Joseph Koski — Signature: [signature] — Month 10 Day 30 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

8630254

Invoice: 184114 Receipt 21-00 1098975 Manifest 007988587FLE

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: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-678-3996
4. Manifest Tracking Number: 007988587 FLE

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIK111229563

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

8. Designated Facility Name and Site Address
EQ DETROIT INC
1923 FREDERICK ST,
DETROIT, MI 48211
Facility's Phone: 313 347-1300
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 Hazardous, Non-Regulated Material	1	TT	3500	G	0292
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #J15805DET

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: Robert Hilgade — Signature — Month 10 Day 29 Year 15

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robert Claflin — Signature — Month 11 Day 3 Year 15
Transporter 2 Printed/Typed Name — Signature — Month Day Year

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. HW 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: Joseph Kosky — Signature — Month 11 Day 3 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

8637474

Form Approved. OMB No. 2050-0039

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: MID980700827
2. Page 1 of
3. Emergency Response Phone: 800-878-3996
4. Manifest Tracking Number: 007988588 FLE

5. Generator's Name and Mailing Address
Racer Plants 2 & 3
2800-2801 WEST SAGINAW ST
Lansing, MI 48917 800-878-3996
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLUMMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIR111229563

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

8. Designated Facility Name and Site Address
EQ DETROIT INC
1923 FREDERICK ST,
DETROIT, MI 48211
Facility's Phone: 313-347-1900
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 Hazardous, Non-Regulated material [redacted]	1	TT	3000	G	029L
	2. [redacted]					
	3. [redacted]					
	4.					

14. Special Handling Instructions and Additional Information
Approval #I158050ET

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: ROBERT HICKADE
Signature:
Month 10 Day 29 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ROBERT CHEEK III
Signature:
Month 11 Day 4 Year 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

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

Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)

Facility's Phone:
Month Day Year

18c. Signature of Alternate Facility (or Generator)

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

1.	2.	3.	4.
L1W			

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: Joseph Kosky
Signature:
Month 11 Day 4 Year 15

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR | TRANSPORTER INT'L | TRANSPORTER | DESIGNATED FACILITY

8643759

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: MIDS987987
2. Page 1 of
3. Emergency Response Phone: 800-678-5555
4. Manifest Tracking Number: 007988589 FLE

5. Generator's Name and Mailing Address
Zoox Plastics 3 A 5
2800-3301 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: FLEMMER'S ENVIRONMENTAL SERVICES
U.S. EPA ID Number: MIA1123563

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

8. Designated Facility Name and Site Address
U.S. EPA ID Number
Facility's Phone:

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. OTHER WASTE	1	TF	G		
	2. FLOOR DRAIN/ PIT CLEANOUTS	1	TF	G		
	3. STEAM CLEANOUTS	1	TF	G		
	4.	0	3,600			

14. Special Handling Instructions and Additional Information
Approval #: 13-0005-DET

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: ROBERT WILSON
Signature
Month Day Year

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: ROBERT CLIFTON
Signature
Month: 11 Day: 4 Year: 13

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

THESE NEED TO GO TO CASEY OR ROBERT

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
[illegible]		[illegible]	007988826 FLE

GENERATOR

5. Generator's Name and Mailing Address [illegible]

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name [illegible] U.S. EPA ID Number [illegible]

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

8. Designated Facility Name and Site Address [illegible] U.S. EPA ID Number [illegible]

Facility's Phone:

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. [illegible]	[illegible]		[illegible]	[illegible]	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information [illegible]

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 ROBERT [illegible] Signature [illegible] Month 11 Day 15 Year 15

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 [illegible] Signature [illegible] Month 11 Day 15 Year 15

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

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MIR000010827		800-618-3216	007989827 FLE

GENERATOR

5. Generator's Name and Mailing Address
Gasket Plastics LLC
2300-2301 WEST SAGINAW ST
Lansing, MI 48917
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: PLANET 9 ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MDR111239587

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

8. Designated Facility Name and Site Address: ALLIED INC
1500 FREDERICK ST.
DETROIT, MI 48211
Facility's Phone: — U.S. EPA ID Number: MID980991565

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 Hazardous Non Regulated Liquid Waste	1	CT		G	
	2.					
	3.					
	4.	3,500				

14. Special Handling Instructions and Additional Information
Approval #1139050ET

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: Kathy Nicole — Signature — Month: 10 — Day: 10 — Year: 15

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: Chris Garcia — Signature — Month: 10 — Day: 10 — Year: 15

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

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number [illegible]
2. Page 1 of
3. Emergency Response Phone [illegible]
4. Manifest Tracking Number 007988828 FLE

GENERATOR

5. Generator's Name and Mailing Address [illegible]
2200-2201 West Stroop St
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name [illegible] U.S. EPA ID Number [illegible]

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

8. Designated Facility Name and Site Address [illegible]
1555 Fredrick St.
Detroit, MI 48211

U.S. EPA ID Number [illegible]

Facility's Phone:

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 Hazardous Non Regulated Liquid Waste	1	DF	3,500	G	[illegible]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information [illegible]

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 [illegible] Signature [illegible] Month Day Year [illegible]

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 [illegible] Signature [illegible] Month Day Year [illegible]

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: [illegible]
2. Page 1 of
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 007988829 FLE

GENERATOR

5. Generator's Name and Mailing Address: [illegible] Plastic [illegible]
[illegible] West Saginaw St
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PIONEER ENVIRONMENTAL SERVICES
U.S. EPA ID Number: [illegible]

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

8. Designated Facility Name and Site Address: [illegible]
1500 FEDERICK ST,
DETROIT, MI 48211
U.S. EPA ID Number: MID991991556

Facility's Phone:

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 Hazardous Gas Sampled Liquid Paint	1	[illegible]	3,420	G	[illegible]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: Approved #[illegible]DET

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: Robert Hizade
Signature:
Month: 1 Day: 12 Year: 15

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: Robert Clarke
Signature:
Month: 1 Day: 12 Year: 15

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

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
	[illegible]		800-[illegible]	007988830 FLE

GENERATOR

5. Generator's Name and Mailing Address
Ford Plastics #3
4000-2901 WEST VERNOR ST
Lansing, MI 48917

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
PLANET'S ENVIRONMENTAL SERVICES

U.S. EPA ID Number
MIA[illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
[illegible] INC
1923 PATRICK ST.
DETROIT, MI 48211

U.S. EPA ID Number
MI[illegible]

Facility's Phone:

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 Hazardous Non Regulated Liquid Waste	1	[illegible]	[illegible]	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #[illegible]DET

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 [illegible] Signature [signature] Month 10 Day 13 Year 15

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 [illegible] Signature [signature] Month 10 Day 13 Year 15

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
MIR000162627		800-592-5555	007988831 FLE

GENERATOR

5. Generator's Name and Mailing Address
Meese Plants 2 & 3
2800-3601 WEST GRAND ST
Ludington, MI 49431

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: PUROIL'S ENVIRONMENTAL SERVICES — U.S. EPA ID Number: MIR111029993

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

8. Designated Facility Name and Site Address
EQ DETROIT INC
1923 FRONTAGE ST.
DETROIT, MI 48211

U.S. EPA ID Number: MID980991956

Facility's Phone:

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 Hazardous for Regulated Liquid Waste	1	DM	3,950	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Approval #158850GEF

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: Robert Reade — Signature — Month: 04 Day: 13 Year: 13

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: Robert Oare — Signature — Month: 04 Day: 13 Year: 13

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

Appendix C
(Concrete)

PM ENVIRONMENTAL Environmental & Engineering Services

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3084078

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of 1

d. Generator's Name and Location:	e. Generator's Mailing Address:
RACER TRUST PROPERTY (FMR PLANT 2&3) 2800 AND 2801 WEST SAGINAW ST. f. Phone: LANSING, MI 48911 734-879-9525	500 WOODWARD AVE SUITE 2650 g. Phone: DETROIT, MI 48226
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
a. 5007 16 8829 ACCT 262	5/20/2017	BROKEN CONCRETE W/PCBs	1	T	40	Y
B.					APPROVED	
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
ROBERT HIKADE (PER RACER)	[signature]	6/21/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
E.T. MACKENZIE COMPANY 517-627-8408
4248 WEST SAGINAW HWY
GRAND LEDGE, MI 48837
Truck # 10055
b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Ken Stebleton	[signature]	6/21/16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
C&C LANDFILL 14800 P. DR. NORTH MARSHALL, MI 49068 269-781-9742 b.		1045815

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
[illegible]	[signature]	6/21/16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	MACSS 8:50 pickup d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'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.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3084079

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
		1

d. Generator's Name and Location:	e. Generator's Mailing Address:
RACER TRUST PROPERTY (FMR PLANT 2&3) 2800 AND 2801 WEST SAGINAW ST. LANSING, MI 48911 f. Phone: 734-879-9525	500 WOODWARD AVE SUITE 2650 DETROIT, MI 48226 g. Phone:
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
a. 5007 16 8829 ACCT 262	5/20/2017	BROKEN CONCRETE W/PCBs	1	T	40	Y
B.						
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
ROBERT HIKADE (PER RACER)		6/21/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
E.T. MACKENZIE COMPANY 517-627-8408
4248 WEST SAGINAW HWY
GRAND LEDGE, MI 48837
b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Lynn Farell	Lynn Farell	6/21/16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
C&C LANDFILL 14800 P. DR. NORTH MARSHALL, MI 49068 269-781-9742 b.		104824

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
		6/21/16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	11994 d. Phone: 11967

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'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.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REV 01/14

RETURN TO GENERATOR

RS-F11A

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3084080

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of 1
d. Generator's Name and Location: RACER TRUST PROPERTY (FMR PLANT 2&3) 2800 AND 2801 WEST SAGINAW ST. LANSING, MI 48911 f. Phone: 734-879-9525	e. Generator's Mailing Address: 500 WOODWARD AVE SUITE 2650 DETROIT, MI 48226 g. Phone:	
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:	

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
a. 5007 16 8829 ACCT 262	5/20/2017	BROKEN CONCRETE W/PCBs	1	T	40	4
B.						
C.					44.73	TN

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
ROBERT HIKADE (PER RACER)		6/21/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
E.T. MACKENZIE COMPANY 517-627-8408
4248 WEST SAGINAW HWY
GRAND LEDGE, MI 48837
Truck #10055
b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Ken Stebleton		6/21/16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
C&C LANDFILL 14800 P. DR. NORTH MARSHALL, MI 49068 269-781-9742 b.		1045885

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
		6/21/16

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address: b. Phone:	c. Responsible Agency Name and Address: d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'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.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

REPUBLIC SERVICES

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

3084081

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
		1

d. Generator's Name and Location:	e. Generator's Mailing Address:
RACER TRUST PROPERTY (FMR PLANT 2&3) 2800 AND 2801 WEST SAGINAW ST. LANSING, MI 48911 f. Phone: 734-879-9525	500 WOODWARD AVE SUITE 2650 DETROIT, MI 48226 g. Phone:
If owner of the generating facility differs from the generator, provide:	
h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
a. 5007 16 8829 ACCT 262	5/20/2017	BROKEN CONCRETE W/PCBs	1	T	20	Y
B.					1585	
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
ROBERT W. KADE (PER RACER)		6/21/16

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
E.T. MACKENZIE COMPANY 517-627-8408
4248 WEST SAGINAW HWY
GRAND LEDGE, MI 48837
Truck #10052
b. Phone:

c. Driver Name (Print)	d. Signature	e. Date
Lynn Forell	Lynn Forell	6/21/16

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
C&C LANDFILL 14800 P. DR. NORTH MARSHALL, MI 49068 269-781-9742 b.		1045895

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
		6/21/16

V. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Operator's Name and Address:	c. Responsible Agency Name and Address:
e:	d. Phone:

l Handling Instructions and Additional Information:

e ☐ Non-Friable ☐ Both % Friable % Non-Friable

'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name sified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and rnmental regulations.

Name and Title (Print)	h. Signature	i. Date

rs to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or eration or both

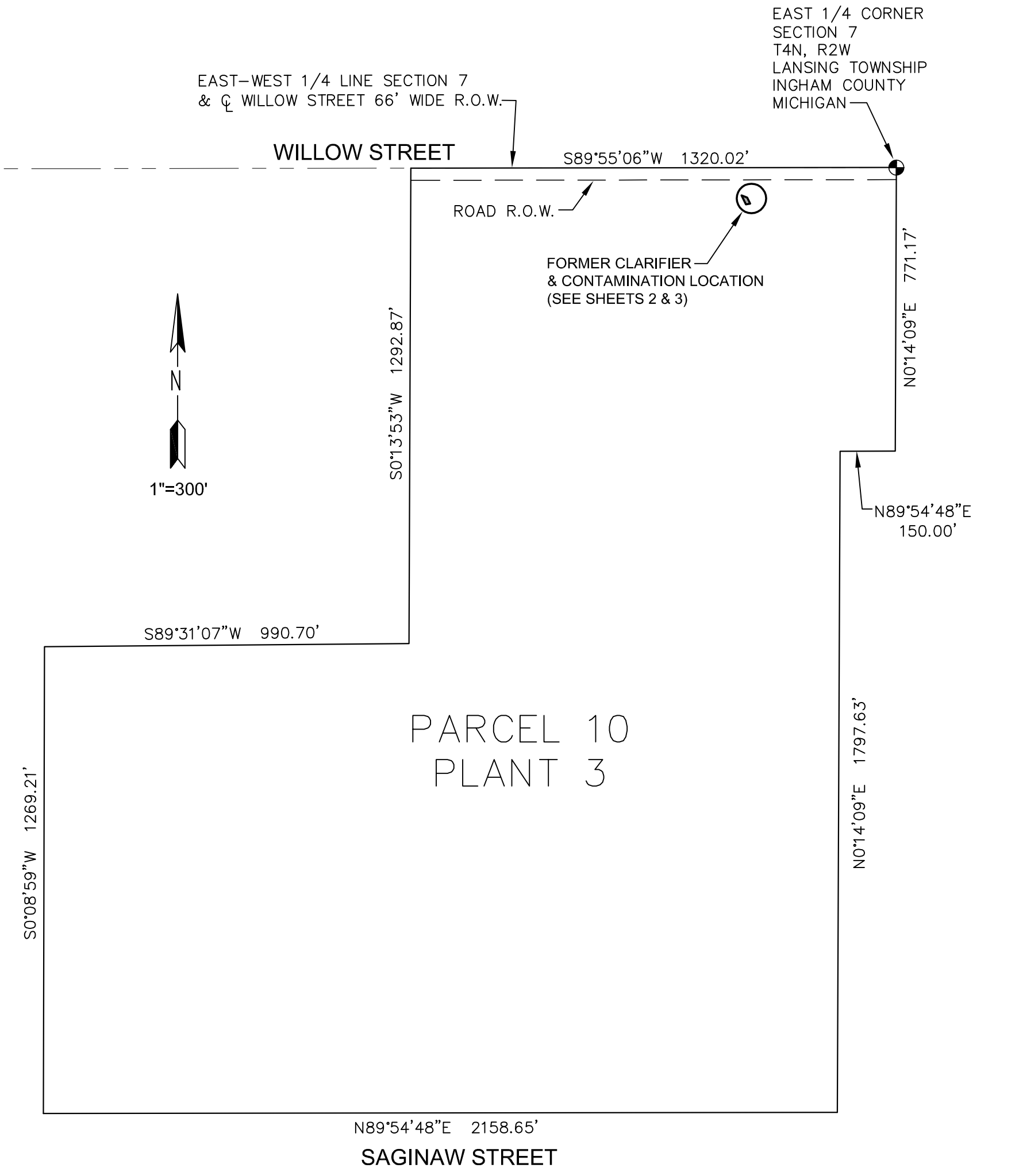
RETURN TO GENERATOR

RS-F11A

Appendix D

PM ENVIRONMENTAL Environmental & Engineering Services

OVERALL MAP



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Eng™
Engineering & Surveying
4063 Grand Oak Drive
Suite A109
Lansing, MI 48911
T: 517.887.1100
F: 517.887.6335
engdot.com

PROJECT: CLARIFIER REMOVAL WORK
LOCATION: GM RACER LANSING PLANTS
CLIENT: PM ENVIRONMENTAL, INC.
PROJECT NO.: 13046
DATE: OCTOBER 17, 2016

SHEET 1 OF 3

MAP OF DESCRIPTION

CONTAMINATED CONCRETE AREA-

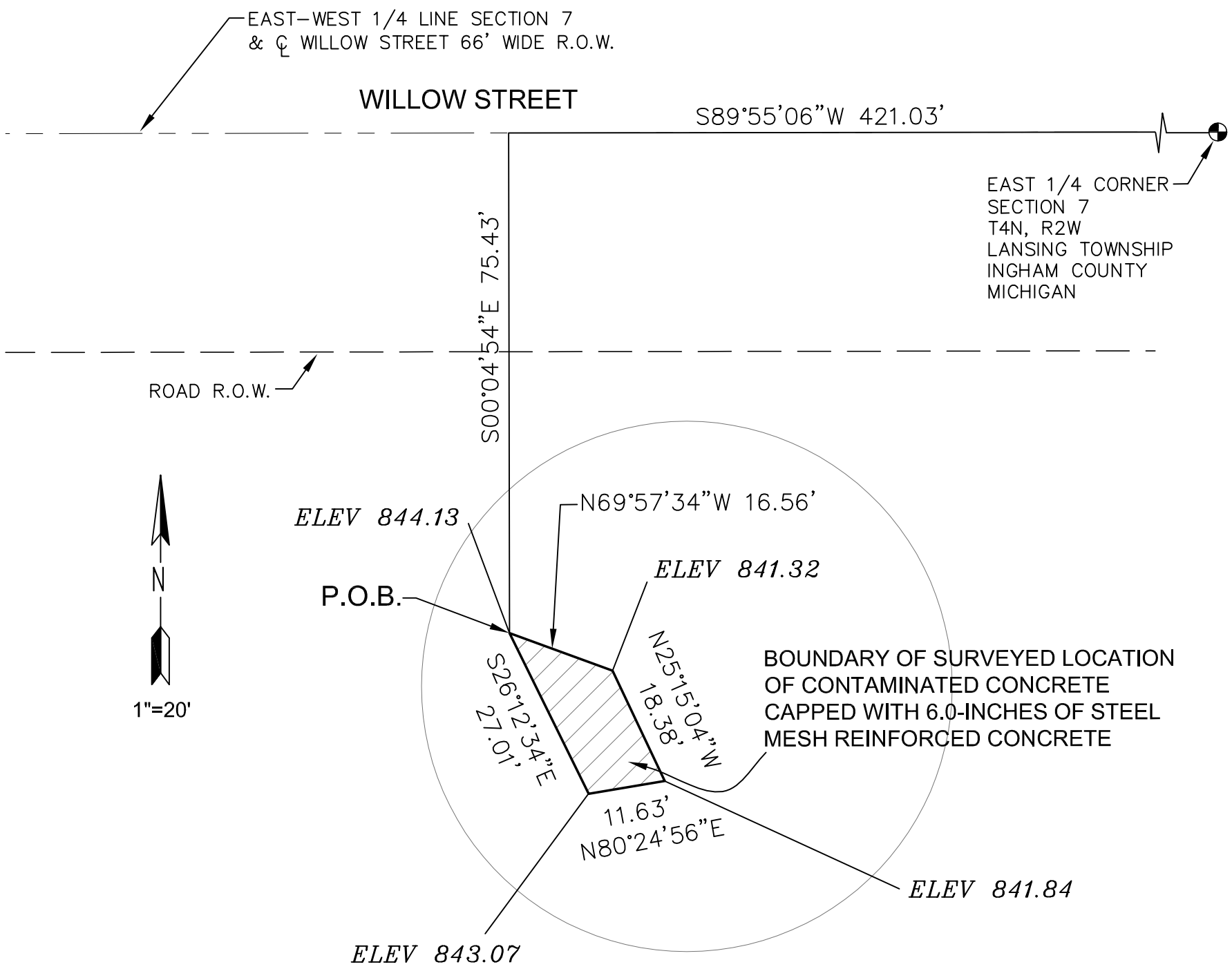
(CAPPED WITH 6.0-INCHES OF STEEL MESH REINFORCED CONCRETE)

CONTAMINATED CONCRETE AREA

LEGAL DESCRIPTION

A PARCEL OF LAND IN PART OF THE SOUTHEAST 1/4 OF SECTION 7, TOWNSHIP 4 NORTH, RANGE 2 WEST, LANSING TOWNSHIP, INGHAM COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 7, THENCE S89º55'06"W ALONG THE EAST-WEST 1/4 LINE OF SAID SECTION 7 A DISTANCE OF 421.03 FEET, THENCE S0º04'54"E AT RIGHT ANGLES TO SAID EAST-WEST 1/4 LINE 75.43 FEET TO THE TRUE POINT OF BEGINNING OF SAID PARCEL, SAID POINT BEING AT ELEVATION 843.63 FEET, THENCE S26º12'34"E 27.01 FEET TO A POINT, SAID POINT BEING AT ELEVATION 842.57, THENCE N80º24'56" E 11.63 FEET TO A POINT, SAID POINT BEING AT ELEVATION 841.34, THENCE N25º15'04"W 18.38 FEET TO A POINT, SAID POINT BEING AT ELEVATION 840.82, THENCE N69º57'34"W 16.56 FEET MORE OR LESS TO THE POINT OF BEGINNING.

CONTAINING 257.6 SQUARE FEET.



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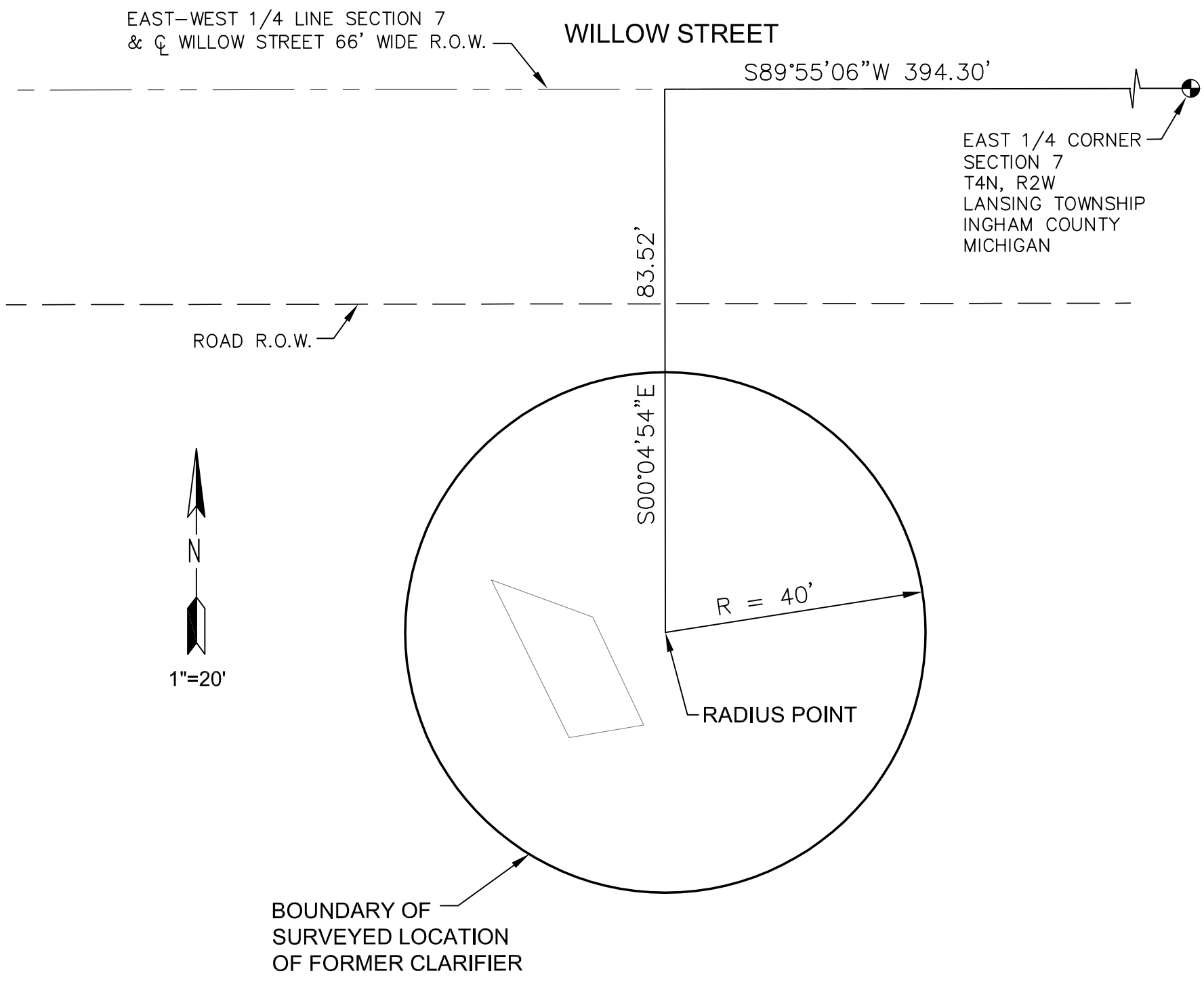
T:\Autocad Drawings\13046\CLARIFIER REMOVAL & RESTORATION (9-15-14)\surveyexhibit.dwg, 10/17/2016 1:05:14 PM, CutePDF Writer

MAP OF DESCRIPTION
(FORMER CLARIFIER LOCATION)

CLARIFIER LOCATION

LEGAL DESCRIPTION

A CIRCULAR PARCEL OF LAND, OF RADIUS 40 FEET, IN PART OF THE SOUTHEAST 1/4 OF SECTION 7, TOWNSHIP 4 NORTH, RANGE 2 WEST, LANSING TOWNSHIP, INGHAM COUNTY, MICHIGAN, THE RADIUS POINT OF SAID CIRCLE BEING LOCATED AS FOLLOWS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 7, THENCE S89º55'06"W ALONG THE EAST-WEST 1/4 LINE OF SAID SECTION 7 A DISTANCE OF 394.3 FEET, THENCE S0º04'54"E AT RIGHT ANGLES TO SAID EAST-WEST 1/4 LINE 83.52 FEET TO SAID RADIUS POINT.



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