

Revitalizing Auto Communities Environmental Response
Trust

PCB INVESTIGATION SUMMARY AND SELF- IMPLEMENTING WORK PLAN

**RACER Trust Lansing Industrial Land
Plants 2 & 3, MID 980 700 827
Lansing, Michigan**

Original Submittal: December 28, 2021

Revised Submittal: October 11, 2023

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Prepared By:

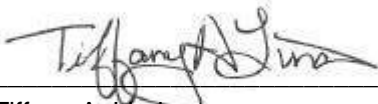
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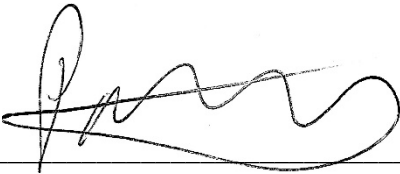
Revitalizing Auto Communities
Environmental Response Trust

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Acronyms and Abbreviations

Arcadis	Arcadis of Michigan, LLC
bgs	below ground surface
CFR	Code of Federal Regulations
DCC	Direct Contact Criteria
DRC	Declaration of Restrictive Covenant
EGLE	Michigan Department of Environment, Great Lakes and Energy
LNAPL	light non-aqueous phase liquid
MDLs	method detection limits
µg/kg	micrograms per kilogram
PCB	polychlorinated biphenyl
ppm	part per million
RACER	Revitalizing Auto Communities Environmental Response
TSCA	Toxic Substance Control Act
USEPA	United States Environmental Protection Agency

1 Introduction

Arcadis of Michigan, LLC (Arcadis) has prepared this polychlorinated biphenyl (PCB) Investigation Summary and Self-Implementing Work Plan on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust to address PCB impacts at RACER Trust Lansing Industrial Land Plant 2, located at 2800 West Saginaw Street, in Lansing, Michigan (**Figure 1**), referred to herein as the Site. The Work Plan provides a brief background discussion of investigation activities with regard to PCBs and describes additional investigation completed to further define PCB impacts and subsequent caps/restriction areas needed in Area 5-2 of Plant 2 (**Figure 2A**).

This PCB Investigation Summary and Self-Implementing Work Plan has been prepared in accordance with the self-implementing cleanup and disposal notification (Notification) requirements for PCB remediation waste as presented in the United States Environmental Protection Agency (USEPA) Toxic Substances Control Act (TSCA) regulations contained in Title 40 of the Code of Federal Regulations (40 CFR) Part 761.61(a), including implementation of an Amended Declaration of Restrictive Covenant (Amended DRC) where applicable. It is noted that it is RACER's intent that the PCB remedial measures included in this Self-Implementing Work Plan will be the final measures needed to address PCBs at the Site.

2 PCB Background Information

The following sections provide a summary of the investigations conducted at the Site to evaluate and delineate the presence of PCB impacted soil in Area 5-2 of Plant 2. The additional soil investigations were initiated due to the detection of PCBs within light non-aqueous phase liquid (LNAPL) at monitoring well P2-SB-37/MW-37 in 2011 and 2012 (**Figure 2B**). The date of the release, source of the PCBs and the original concentration are unknown. Additional investigations were conducted to further delineate the PCBs in the soil and are summarized in prior reports submitted to the Michigan Department of Environment, Great Lakes and Energy (EGLE), namely the August 18, 2014 PCB Interim Response Work Plan for Concrete Vault Removal and Targeted Excavation for the Former General Motors Lansing Plant 2 submitted by PM Environmental, Inc. (PM) (PM 2014).

Title 40 CFR Section 761.61 provides for the following guidelines for PCB contaminant concentrations and how they should be addressed under TSCA:

- High occupancy area with a concentration < 1 part per million (ppm): cap and/or restrictions are not required.
- High occupancy >1 ppm and <10 ppm: Area must be covered with a cap.
- Low occupancy area with concentration <25 ppm: cap and/or restrictions other than low occupancy notification are not required. A notice will be provided in the Amended DRC for the Site.
- Low occupancy areas with a concentration >25 ppm and <100 ppm: The surface must be covered with an adequate cap.

2.1 Previous Investigations – Plant 2 PCBs

PCB analytical results for soil samples collected in the area of P2-SB-37/MW-37 for delineation purposes are summarized in **Table 1**. As shown on **Figure 2B**, the concentrations of PCBs are below the TSCA, 40 CFR 761(d)(4) soil cleanup objectives for bulk PCB remediation waste for low-occupancy use without cap (25,000 micrograms per kilogram [$\mu\text{g}/\text{kg}$]) except for locations LMW-14-15D and VAP-A5.2-NV119 (39,000 and 51,000 $\mu\text{g}/\text{kg}$, respectively). The concentrations at LMW-14-15D and VAP-A5.2-NV119 are within the range of the TSCA soil cleanup objective for low occupancy use with cap and deed restriction (25,000-100,000 $\mu\text{g}/\text{kg}$). Additional sampling was completed to further refine the low occupancy areas as discussed in Section 2.2 below.

This Work Plan has been prepared to address TSCA requirements, but it is noted that historical samples from locations LMW-14-15D, SB-A5.2-NW124, and VAP-A5.2-NV119 are above the EGLE Nonresidential Direct Contact Criteria (NRDCC) of 16,000 $\mu\text{g}/\text{kg}$ for total PCBs. Samples that are above the NRDCC are at depths ranging from 4 to 19 feet below ground surface (bgs). At these locations, PCB impacts are included within the TSCA low-occupancy use without a cap (SB-A5.2-NW124) and the TSCA low-occupancy use with a cap (VAP-A5.2-NV119 and LMW-14-15D) areas. Refer to **Table 2** for a summary of exceedances.

2.2 October 2020 Investigation Summary

As a result of the exceedances of PCBs identified above TSCA clean up objectives, additional delineation activities were completed in October 2020 to refine areas where PCB remediation Waste and low occupancy notifications are required. In addition, near surface samples were collected to evaluate the adequacy of existing ground cover to act as the cap for the low occupancy area with cap.

Prior soil sampling in Area 5-2 indicated the following:

- The concentration of PCBs at P2-SB-24, SB-A5.2-NR128, SB-A5.2-NW124, SB-A5.2-NZ128, P2-GP-2/PMW-02, P2-GP-3, P2-GP-4, and P2-GP-15 are greater than 1 ppm but less than 25 ppm. Therefore, these locations need to be designated low occupancy but would not require a cap (**Table 2** and **Figure 2B**).
- Concentrations of PCBs at VAP-A5.2-NV119 and LMW-14-15D are greater than 25 ppm (**Table 2** and **Figure 2B**) and less than 100 ppm. These locations need to be designated low occupancy and require a cap.

To refine the locations of the low occupancy areas, additional PCB soil sampling was completed at a total of nine (9) locations for delineation purposes using direct push drilling methods (**Figure 2B**). Samples were collected at depths where PCBs were previously detected in nearby locations to further define soil impacts. Sample locations and a summary of the data are presented on **Figure 2C** and in **Table 3**. Soil boring logs are provided in **Appendix A**. Laboratory analytical reports are provided in **Appendix B**.

To verify the suitability of the existing material for use as a cap, near surface samples were collected at a total of seven (7) locations within the proposed cap area; from 0-1 inch for concrete and from 2-3 inches for soil/fill material (e.g., soil, sand, gravel, and/or deteriorated concrete). An additional nine (9) surface samples were also collected in the low occupancy area without cap as a conservative measure. **Figure 2B** includes the locations where surface cover was sampled and analyzed. Concrete core sample collection was completed using an AC-operated rotary hammer drill with a $\frac{3}{4}$ -inch or one-inch masonry bit to collect 20 grams of pulverized concrete from 0-1-inch interval. Surface concrete or surface soil samples (depending on location) were collected in laboratory provided containers and submitted to Merit Laboratories in Lansing, Michigan for analysis of PCBs. Locations of the surface samples collected during 2020 are depicted on **Figure 2D** and

laboratory analytical results are summarized in **Table 3**. Laboratory analytical reports are provided in **Appendix B**.

The historical and additional investigation activities have delineated PCB impacts horizontally and vertically to below the laboratory method detection limits (MDLs) and/or < 1 ppm. Based on the results, one low occupancy area without a cap and one low occupancy area with a cap are proposed (**Figures 2C and 2D**). A notification will be included in the Amended DRC for these areas, pursuant to 40 CFR 761, regarding the presence of PCB remediation waste. The Amended DRC will include areas defined as low occupancy without cap and low occupancy with a cap. As the designation of the low occupancy areas with and without cap will be included in the amended DRC, future property owners would need to obtain approval from EGLE and RACER to change the designation. The State plane coordinates of the low occupancy areas with and without cap and a figure depicting the areas will be included in the amended DRC.

Within the low occupancy area requiring a cap, the existing surface cover meets the following requirements of 40 Code of Federal Regulations (40 C.F.R.) 761.61(a)(7) for cap with the exception of the specified soil permeability:

- Consists of at least 10 inches of soil or 6 inches of pavement, depending on location.
- The TSCA PCB exceedances above 25 ppm but below 100 ppm identified at the Site, which are required to have a cap, are currently located at depths ranging from 4 to 19 feet bgs. Therefore, PCB impacts are beneath more than one foot of pavement or surface fill material.
- Bulk samples of the concrete cap and/or surface fill materials were collected, as described in this section, to verify that the existing surface cover is clean (PCBs < 1 ppm) and can be utilized as a cap (**Figure 2D**).
- The cap will be inspected on an annual basis and repaired if necessary.
- Additionally, the entire Site is fenced and the areas of low occupancy with and without a cap will be outlined in an Amended DRC for Plant 2. The Amended DRC will be provided to USEPA and EGLE for review when all necessary deed restrictions to satisfy TSCA and RCRA Corrective Action are identified.

The existing cover meets the above requirements except for the specified soil permeability. Although there are no PCB impacts in groundwater in this area and PCBs leaching to groundwater is not anticipated, to fully meet the requirements and provide additional cap stability in the area of existing soil/fill cover of Area 2, RACER proposes to place a 6 inch thick asphalt cap over the portion of Area 2 that has soil/fill cover currently. However, overall the Site is secure and currently only used for parking vehicles and the subject area is not used for parking vehicles. Further, due to the interest in redevelopment of the property and the likelihood that a redeveloper would modify this area and place pavement over this area, installation of the asphalt cap will be delayed until a developer's plans can be reviewed and factored into the needed asphalt cap, or the situation will be re-evaluated no later than five (5) years from EGLE approval of this Work Plan if no development occurs in this area of the Site by that time.

3 CAP Inspection and Maintenance

The proposed low occupancy area with a cap that will be present as outlined in Section 2.0 will be inspected on an annual basis after EGLE approval of this Work Plan. The inspection of the cap will evaluate signs of weathering, erosion, settlement and/or excessive vegetation growth that could allow for contact with impacted soil. Inspections will be documented on an inspection form (**Appendix C**). The cap will be maintained (completion of cap repairs) as necessary to mitigate contact with underlying PCB impacted soil. In addition, the status of any developments plans for this area will be provided. A brief inspection report will be provided to EGLE summarizing the observations and would indicate if maintenance is necessary. The frequency of inspections may be modified with EGLE approval.

4 Inclusion in Amended Declaration of Restrictive Covenant

The proposed PCB remediation waste and TSCA-restricted areas (both the low occupancy area with cap and low occupancy area without cap) will be included in an Amended DRC to be prepared for the Site. Coordinates of the areas will be provided in the Amended DRC along with figures providing the locations and concentrations of the PCBs being left in place in the area. The Amended DRC will include a notification of PCB remediation waste at the Site and a provision that prohibits any excavation or other intrusive activity that could affect the integrity of the cap within the area designated as low occupancy with cap without prior USEPA, EGLE and RACER Trust written approval. It will also provide that any excavation or other intrusive activity that could remove, alter, or disturb the cap must be restored with a cap that provides at least an equivalent degree of protection as the original cap. The implementation of an Amended DRC will be delayed until one DRC that addresses the PCB remediation waste notification, the TSCA restriction and all other Corrective Action items can be prepared (or until just prior to transfer of the property to a new owner), which would keep all necessary deed restrictions in one DRC. The Amended DRC will be provided to USEPA and EGLE for review when all necessary deed restrictions to satisfy TSCA and RCRA Corrective Action are identified.

5 Notification and Schedule

This Self-Implementing Work Plan requests USEPA and EGLE approval to proceed with the proposed PCB remediation waste notification, and low occupancy restriction areas as a cleanup being conducted under Title 40 CFR Section 761.61. The proposed activities are technically sound and protective of human health and the environment. The low occupancy restriction areas, once approved, will be included in the Amended DRC for the Site.

A draft DRC will be submitted to USEPA and EGLE for review when one DRC that addresses the PCB remediation waste notification, the TSCA restriction, and all other Corrective Action items can be prepared, or prior to transfer of the property to a new owner, whichever occurs first. Timing of installation of the asphalt cap over the low occupancy area with a cap, will be evaluated when a developer's plan for the area is available or no later than 5 years from EGLE approval of this Work Plan if no development occurs before that time.

6 References

PM Environmental, Inc. 2014. PCB Interim Response Work Plan for Concrete Vault Removal and Targeted Excavation for the Former General Motors Lansing Plant 2. August.

PM Environmental, Inc. 2015. 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. August.

Environmental Protection Agency. 40 CFR 761.61 – PCB Remediation Waste

Tables

Table 1
 Plant 2 Area 5.2 Soil PCB Data Summary - Historical Data
 RACER Trust Plant 2
 Lansing, Michigan



Location ID	Sample Depth (ft)	Date Collected	Units	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)
LMW-14-13D	18 - 19	11/25/14	ug/kg	<330	<330	<330	<330	<330	<330	<330
LMW-14-14D	19 - 20	11/25/14	ug/kg	<330	<330	<330	<330	<330	<330	<330
LMW-14-15D	18 - 19	11/26/14	ug/kg	<5,000 Y [<5,000 Y]	<5,000 Y [<5,000 Y]	<5,000 Y [<5,000 Y]	51,000 Y [40,000 Y]	<5,000 Y [<5,000 Y]	<5,000 Y [<5,000 Y]	<5,000 Y [<5,000 Y]
P2-GP-1/PMW-01	7 - 7.5	10/11/12	ug/kg	<30 Y	<30 Y	<30 Y	140 Y	<30 Y	<30 Y	<30 Y
P2-GP-2/PMW-02	1 - 2	10/11/12	ug/kg	<1,100 Y	<1,100 Y	<1,100 Y	5,300 Y	<1,100 Y	<1,100 Y	<1,100 Y
P2-GP-2/PMW-02	7 - 7.5	10/11/12	ug/kg	<60 Y	<60 Y	<60 Y	550 Y	<60 Y	<60 Y	<60 Y
P2-GP-3	4 - 5	10/11/12	ug/kg	<300 Y	<300 Y	<300 Y	1,600 Y	<300 Y	<300 Y	<300 Y
P2-GP-4	4 - 5	10/11/12	ug/kg	<500 Y	<500 Y	<500 Y	2,600 Y	<500 Y	<500 Y	<500 Y
P2-GP-4	8 - 9	10/11/12	ug/kg	<30 Y	<30 Y	<30 Y	180 Y	<30 Y	<30 Y	<30 Y
P2-GP-5	4 - 5	10/11/12	ug/kg	<6	<6	<6	<6	<6	17	<6
P2-GP-5	8 - 9	10/11/12	ug/kg	<6	<6	<6	<6	<6	<6	<6
P2-GP-6	4 - 5	10/11/12	ug/kg	<20 Y	<20 Y	<20 Y	<20 Y	<20 Y	160 Y	<20 Y
P2-GP-7	5 - 6	10/11/12	ug/kg	<40 Y	<40 Y	<40 Y	240 Y	<40 Y	<40 Y	<40 Y
P2-GP-8	5 - 6	10/11/12	ug/kg	<6	<6	<6	<6	51	<6	<6
P2-GP-9	4 - 5	10/11/12	ug/kg	<6 Y	<6 Y	<6 Y	37 Y	<6 Y	<6 Y	<6 Y
P2-GP-10	2 - 3	10/12/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
P2-GP-12	2 - 3	10/19/12	ug/kg	<3	<6	<6	<6	<6	<6	3
P2-GP-12	5 - 6	10/19/12	ug/kg	<3	<6	<6	<6	<6	<6	<3
P2-GP-13	2 - 3	10/19/12	ug/kg	<3	<6	<6	<6	<6	6	<3
P2-GP-13	6 - 7	10/19/12	ug/kg	<60 Y	<60 Y	<60 Y	<60 Y	<60 Y	200 Y	<60 Y
P2-GP-14	1 - 2	10/19/12	ug/kg	<3	<6	<6	<6	<6	<6	<3
P2-GP-14	6 - 7	10/19/12	ug/kg	<3	<6	<6	16	<6	<6	<3
P2-GP-15	1 - 2	10/19/12	ug/kg	<300 Y	<300 Y	<300 Y	<300 Y	800 Y	<300 Y	<300 Y
P2-GP-15	4 - 5	10/19/12	ug/kg	<500 Y	<500 Y	<500 Y	4,700 Y	<500 Y	<500 Y	<500 Y
P2-GP-15	10 - 11	10/19/12	ug/kg	<30 Y	<30 Y	<30 Y	200 Y	<30 Y	<30 Y	<30 Y
P2-GP-16	1 - 2	10/19/12	ug/kg	<3	<6	<6	<6	<6	<6	<3
SB-A5.2-NJ129	1 - 2	05/23/12	ug/kg	<3	<3	<3	<3	<3	<3	8
SB-A5.2-NJ129	8.5 - 9.5	05/23/12	ug/kg	<20	<20	<20	<20	<20	120	<20
SB-A5.2-NJ129	12.5 - 13	05/23/12	ug/kg	<3	<3	<3	<3	<3	60	<3
SB-A5.2-NJ129	13.5 - 14.5	05/23/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [6]	<3 [<3]
SB-A5.2-NL114	1 - 2	05/23/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL114	8.5 - 9.5	05/23/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL114	14.5 - 15.5	05/23/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL114	16.5 - 17.5	05/23/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL121	1 - 2	05/02/12	ug/kg	<3	<3	<3	<3	<3	<10	<3
SB-A5.2-NL121	5 - 6	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL121	10 - 11	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL121	15 - 16	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NL121	20 - 21	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO116	1 - 2	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO116	2 - 3	05/02/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<40 [<50]
SB-A5.2-NO116	7 - 8	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO116	12 - 13	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO116	17 - 18	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO116	22 - 23	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NQ120	18 - 19	11/26/14	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NR128	1 - 2	05/01/12	ug/kg	<130 J	<130 J	<130 J	2,400 J	<130 J	<130 J	<130 J
SB-A5.2-NR128	3 - 4	05/01/12	ug/kg	<50 J	<50 J	<50 J	500 J	<50 J	<50 J	<50 J
SB-A5.2-NR128	8 - 9	05/01/12	ug/kg	<8	<8	<8	100	<8	<8	<8
SB-A5.2-NR128	13 - 14	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3

Table 1
 Plant 2 Area 5.2 Soil PCB Data Summary - Historical Data
 RACER Trust Plant 2
 Lansing, Michigan



Location ID	Sample Depth (ft)	Date Collected	Units	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)
SB-A5.2-NR128	17 - 18	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NU132	1 - 2	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NU132	2 - 3	04/30/12	ug/kg	<30	<30	<30	300	<30	<30	<30
SB-A5.2-NV133	1 - 2	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NV133	4 - 5	04/30/12	ug/kg	<3	<3	<3	40	<3	<3	<3
SB-A5.2-NV133	6 - 7	04/30/12	ug/kg	<10	<10	<10	<10	<10	10	<10
SB-A5.2-NV133	9 - 10	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NV133	12 - 13	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NV133	18 - 19	04/30/12	ug/kg	<5 J	<5 J	<5 J	<5 J	<5 J	<5 J	<5 J
SB-A5.2-NV133	23 - 24	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NV133	28 - 29	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NW124	1 - 2	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<20
SB-A5.2-NW124	4 - 5	05/01/12	ug/kg	<3,000 J	<3,000 J	<3,000 J	22,000 J	<3,000 J	<3,000 J	<3,000 J
SB-A5.2-NW124	7 - 8	05/01/12	ug/kg	<8 [<8]	<8 [<8]	<8 [<8]	100 [100]	<8 [<8]	<8 [<8]	<8 [<8]
SB-A5.2-NW124	11 - 12	05/01/12	ug/kg	<3	<3	<3	<20	<3	<3	<3
SB-A5.2-NW124	16 - 17	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NW124	22 - 23	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ128	1 - 2	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ128	4 - 5	05/01/12	ug/kg	<300 J	<300 J	<300 J	2,800 J	<300 J	<300 J	<300 J
SB-A5.2-NZ128	6.5 - 7.5	05/01/12	ug/kg	<50 J	<50 J	<50 J	600 J	<50 J	<50 J	<50 J
SB-A5.2-NZ128	11 - 12	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ128	16 - 17	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ128	20 - 21	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ128	25 - 26	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OB120	1.5 - 2.5	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OB120	7.5 - 8.5	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OB120	23 - 24	05/22/12	ug/kg	<3	<3	<3	<3	<3	6	<3
SB-A5.2-OB120	26 - 27	05/22/12	ug/kg	<20	<20	<20	<20	<20	160	<20
VAP-A5.2-NK132	1 - 2	05/15/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	8 - 9	05/15/12	ug/kg	<100	<100	<100	400	<100	<100	<100
VAP-A5.2-NK132	14 - 15	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	27 - 28	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	37 - 38	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	42 - 43	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	47 - 48	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	52 - 53	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NK132	57 - 58	05/16/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	1 - 2	05/02/12	ug/kg	<30	<30	<30	<30	<30	600	<30
VAP-A5.2-NV119	6 - 7	05/02/12	ug/kg	<3,000 J	<3,000 J	<3,000 J	39,000 J	<3,000 J	<3,000 J	<3,000 J
VAP-A5.2-NV119	8 - 9	05/02/12	ug/kg	<300 J [<3,000 J]	<300 J [<3,000 J]	<300 J [<3,000 J]	5,400 J [37,000 J]	<300 J [<3,000 J]	<300 J [<3,000 J]	<300 J [<3,000 J]
VAP-A5.2-NV119	14 - 15	05/03/12	ug/kg	<3	<3	<3	<5	<3	<3	<3
VAP-A5.2-NV119	18 - 19	05/03/12	ug/kg	<250 J [<250 J]	<250 J [<250 J]	<250 J [<250 J]	4,500 J [5,700 J]	<250 J [<250 J]	<250 J [<250 J]	<250 J [<250 J]
VAP-A5.2-NV119	24 - 25	05/03/12	ug/kg	<3	<3	<3	<20	<3	<3	<3
VAP-A5.2-NV119	28 - 29	05/03/12	ug/kg	<3	<3	<3	<6	<3	<3	<3
VAP-A5.2-NV119	33 - 34	05/14/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	38 - 39	05/14/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	43 - 44	05/15/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	48 - 49	05/15/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	53 - 54	05/15/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NV119	57.5 - 58.5	05/15/12	ug/kg	<3	<3	<3	<3	<3	<3	<3

Table 1
 Plant 2 Area 5.2 Soil PCB Data Summary - Historical Data
 RACER Trust Plant 2
 Lansing, Michigan



Location ID	Sample Depth (ft)	Date Collected	Units	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)
VAP-A5.2-NV119	62 - 63	05/15/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]
P2-SB-24	5.5 - 6.5	08/31/11	ug/kg	<1,500 J	<1,500 J	<1,500 J	10,000 J	<1,500 J	<1,500 J	<1,500 J
P2-SB-24	19 - 20	08/31/11	ug/kg	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
SB-A5.2-NG127	2 - 3	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<15
SB-A5.2-NG127	6 - 7	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NG127	13 - 14	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NG127	19 - 20	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NJ145	1 - 2	05/08/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]
SB-A5.2-NJ145	7 - 8	05/08/12	ug/kg	<3	<3	<3	<3	<3	<7	<3
SB-A5.2-NJ145	15 - 16	05/08/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NJ145	21 - 22	05/08/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	1 - 2	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	7.5 - 8.5	05/03/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<30 J [10 J]	<3 [<3]
SB-A5.2-NK111	12 - 13	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	15 - 16	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	20 - 21	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	23 - 24	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NK111	25 - 26	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	1 - 2	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	6 - 7	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	10 - 11	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	13 - 14	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	20 - 21	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NO106	24 - 25	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	1 - 2	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	4 - 5	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	7 - 8	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	12 - 13	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	17 - 18	05/03/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NT111	19 - 20	05/03/12	ug/kg	<50	<50	<50	<50	<50	<50	<50
SB-A5.2-NU107	1.5 - 2.5	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NU107	8 - 9	05/22/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	10 [5]	<3 [<3]
SB-A5.2-NU107	12 - 13	05/22/12	ug/kg	<6 J	<6 J	<6 J	<6 J	<6 J	<6 J	<6 J
SB-A5.2-NU107	15.5 - 16.5	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ138	1 - 2	05/01/12	ug/kg	<5	<5	<5	<5	<5	<5	<5
SB-A5.2-NZ144	1 - 2	05/04/12	ug/kg	<5 [<3]	<5 [<3]	<5 [<3]	<5 [<3]	<5 [<3]	50 J [<8 J]	<5 [<3]
SB-A5.2-NZ144	6 - 7	05/04/12	ug/kg	<3	<3	<3	<3	<3	10	<3
SB-A5.2-NZ144	12 - 13	05/04/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ144	18 - 19	05/04/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-NZ144	24 - 25	05/04/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OA138	1 - 2	05/10/12	ug/kg	<8	<8	<8	<8	<8	100	<8
SB-A5.2-OA138	7 - 8	05/10/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]
SB-A5.2-OA138	11 - 12	05/10/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OA138	17 - 18	05/10/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OA138	23 - 24	05/10/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OC107	1.9 - 2.9	05/22/12	ug/kg	<3	<3	<3	<3	<3	10	<3
SB-A5.2-OC107	5.5 - 6.5	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OC107	8 - 9	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
SB-A5.2-OC107A	8 - 9	05/22/12	ug/kg	<3	<3	<3	<3	<3	3	<3
SB-A5.2-OC107A	16 - 17	05/22/12	ug/kg	<3	<3	<3	<3	<3	<3	<3

Table 1
 Plant 2 Area 5.2 Soil PCB Data Summary - Historical Data
 RACER Trust Plant 2
 Lansing, Michigan



Location ID	Sample Depth (ft)	Date Collected	Units	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)
VAP-A5.2-NU137	0 - 2	04/30/12	ug/kg	<10	<10	<10	<10	<10	100	<10
VAP-A5.2-NU137	5 - 6	04/30/12	ug/kg	<5	<5	<5	<5	<5	<5	<5
VAP-A5.2-NU137	10 - 11	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	15 - 16	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	20 - 21	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	23 - 24	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	29 - 30	04/30/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	34 - 35	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	39 - 40	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	44 - 45	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	48 - 49	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	54 - 55	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-NU137	57 - 58	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	7 - 8	05/01/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	12 - 13	05/01/12	ug/kg	<8 [<30]	<8 [<30]	<8 [<30]	<8 [<30]	<8 [<30]	100 J [400 J]	<8 [<30]
VAP-A5.2-OE129	17 - 18	05/02/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]
VAP-A5.2-OE129	22 - 23	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	29 - 30	05/02/12	ug/kg	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]	<3 [<3]
VAP-A5.2-OE129	33 - 34	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	36 - 36.5	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	41 - 42	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	45 - 46	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	51 - 52	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3
VAP-A5.2-OE129	58 - 59	05/02/12	ug/kg	<3	<3	<3	<3	<3	<3	<3

Notes:
 ft = feet
 PCB = polychlorinated biphenyl
 All concentrations are in micrograms per kilogram (ug/kg).
 [] = Duplicate sample
 J = The result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
 Y = Elevated reporting limit due to high target concentration.
 < = Constituent not detected; concentration is listed as less than the reporting limit.
Bold = PCB Concentration above 1 part per million (ppm) or 1,000 part per billion (ppb).

Table 2
Plant 2 Area 5.2 Soil PCBs Exceedances Summary
RACER Trust Plant 2
Lansing, Michigan



Location	Area	Depth (feet bgs)	Date Collected	Compound	TSCA Criteria		EGLE December 2013 Criteria	Result (µg/kg)
					Low Occupancy without Cap (µg/kg)	Low Occupancy with Cap (µg/kg)	DC Criteria (µg/kg)	
LMW-14-15D	Area 5-2	18 - 19	11/26/2014	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	5.10E+04
P2-GP-2/PMW-02	Area 5-2	1 - 2	10/11/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	5.30E+03
P2-GP-3	Area 5-2	4 - 5	10/11/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	1.60E+03
P2-GP-4	Area 5-2	4 - 5	10/11/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	2.60E+03
P2-GP-15	Area 5-2	4 - 5	10/19/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	4.70E+03
SB-A5.2-NR128	Area 5-2	1 - 2	5/1/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	2.40E+03
SB-A5.2-NW124	Area 5-2	4 - 5	5/1/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	2.20E+04
SB-A5.2-NZ128	Area 5-2	4 - 5	5/1/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	2.80E+03
VAP-A5.2-NV119	Area 5-2	6 - 7	5/2/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	3.90E+04
VAP-A5.2-NV119	Area 5-2	8 - 9	5/2/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	5.40E+03
VAP-A5.2-NV119	Area 5-2	18 - 19	5/3/2012	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	4.50E+03
P2-SB-24	Area 5-2	5.5 - 6.5	8/31/2011	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	1.00E+04
SB-A5.2-NU119	Area 5-2	6 - 7	10/14/2020	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	6.10E+03
SB-A5.2-NU124	Area 5-2	4 - 5	10/14/2020	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	4.60E+04
SB-A5.2-OB128	Area 5-2	4 - 5	10/13/2020	Total PCBs	1,000-25,000	25,000-100,000	1.60E+04	4.40E+03

Notes

Result exceeds highlighted criteria

EGLE - Michigan Department of Environment, Great Lakes and Energy

TSCA - Toxic Substances Control Act

DC = Michigan Part 201 Non-Residential Soil Direct Contact Criteria

bgs = below ground surface

µg/kg = micrograms per kilogram

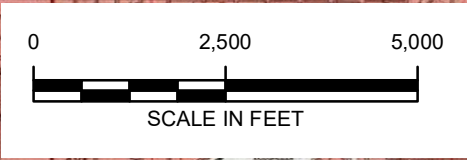
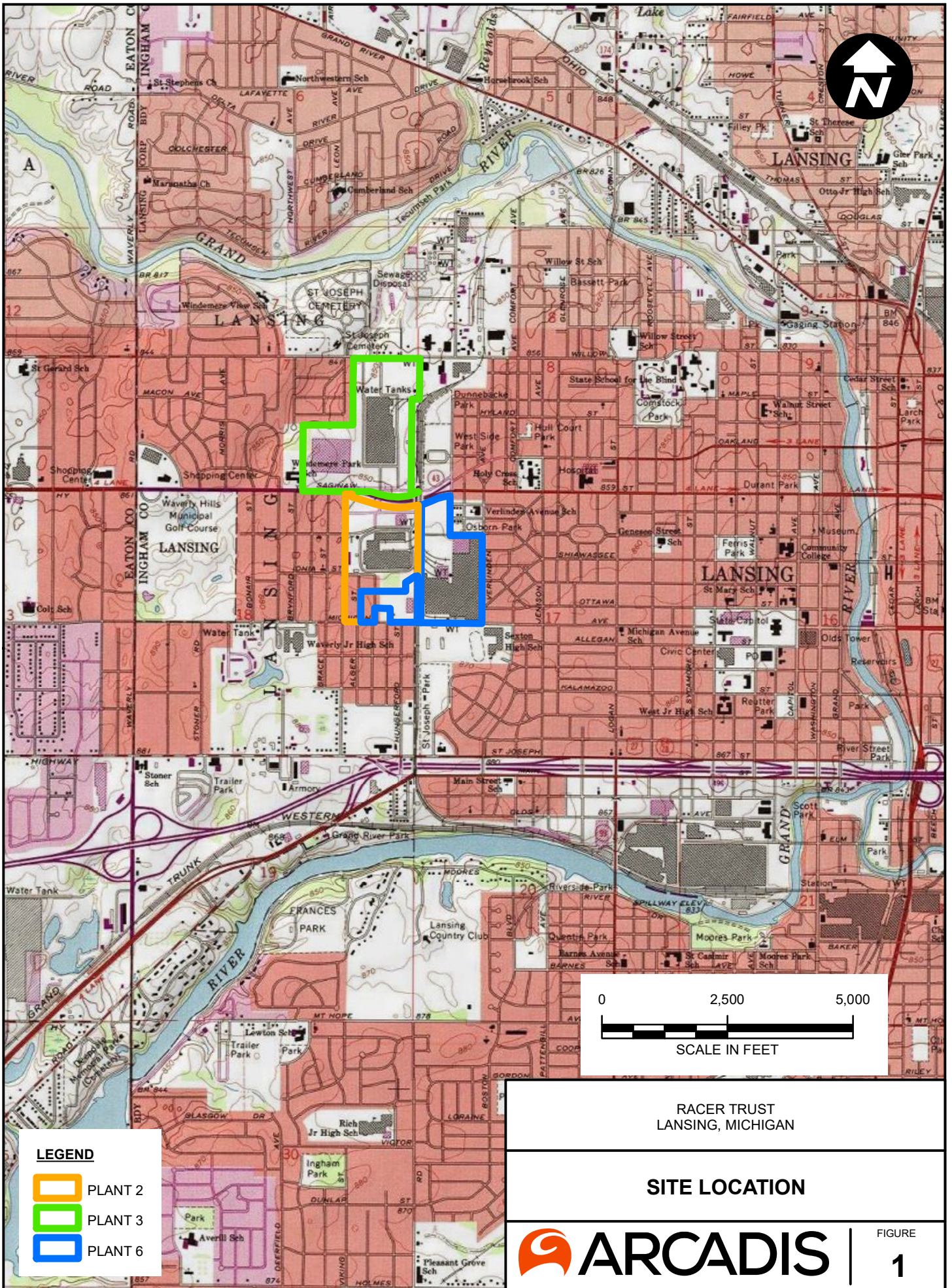
Table 3
 Summary of October 2020 Soil Sample Analytical Results
 RACER Trust
 Lansing, Michigan



Location ID	Sample Depth (ft)	Date Collected	Units	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)
SB-A5.2-NK126	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NK126	5.5 - 6.5	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NL126	0 - 0.08	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NL131	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NL131	5.5 - 6.5	10/14/20	ug/kg	<330	<330	<330	400	<330	<330	<330
SB-A5.2-NS128	0.17 - 0.25	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NT129	0.17 - 0.25	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NU119	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NU119	6 - 7	10/14/20	ug/kg	<600 Y	<600 Y	<600 Y	6,100 Y	<600 Y	<600 Y	<600 Y
SB-A5.2-NU124	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NU124	4 - 5	10/14/20	ug/kg	<5,000 Y	<5,000 Y	<5,000 Y	46,000 Y	<5,000 Y	<5,000 Y	<5,000 Y
SB-A5.2-NU124	18 - 19	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NV116	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NV116	6 - 7	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NV118	0 - 0.08	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NV118	6 - 7	10/14/20	ug/kg	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]
SB-A5.2-NW119	0 - 0.08	10/13/20	ug/kg	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]
SB-A5.2-NW124	0.17 - 0.25	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NW127	0.17 - 0.25	10/13/20	ug/kg	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]	<330 [<330]
SB-A5.2-NY120	0 - 0.08	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NY120	6 - 7	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NY124	0 - 0.08	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NY124	4 - 5	10/14/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-NZ128	0 - 0.08	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-OB128	0 - 0.08	10/13/20	ug/kg	<330	<330	<330	<330	<330	<330	<330
SB-A5.2-OB128	4 - 5	10/13/20	ug/kg	<600 Y	<600 Y	<600 Y	<600 Y	<600 Y	4,400 Y	<600 Y

Notes:
 ft = feet
 PCB = polychlorinated biphenyl
 All concentrations are in micrograms per kilogram (ug/kg).
 [] = Duplicate sample
 J = The result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
 Y = Elevated reporting limit due to high target concentration.
 < = Constituent not detected; concentration is listed as less than the reporting limit.
Bold = PCB Concentration above 1 part per million (ppm) or 1,000 part per billion (ppb).

Figures



LEGEND

- PLANT 2
- PLANT 3
- PLANT 6

RACER TRUST
LANSING, MICHIGAN

SITE LOCATION

FIGURE
1

CITY: Novi DIV: ENV DB: TRY PIC: Jeff Barrett PM: Randy Christensen TM: Tiffany Linder TR: PROJECT NUMBER: 30075941 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
 T:_ENV\RACER\BuffaloMXDs\2020 P2 P3 Corrective Measures Workplan\Plant2_Area5_2 Proposed High Low Occ Exposure Barriers_Shame09012021.mxd PLOTTED: 9/7/2021 1:28:10 PM BY: Dressback

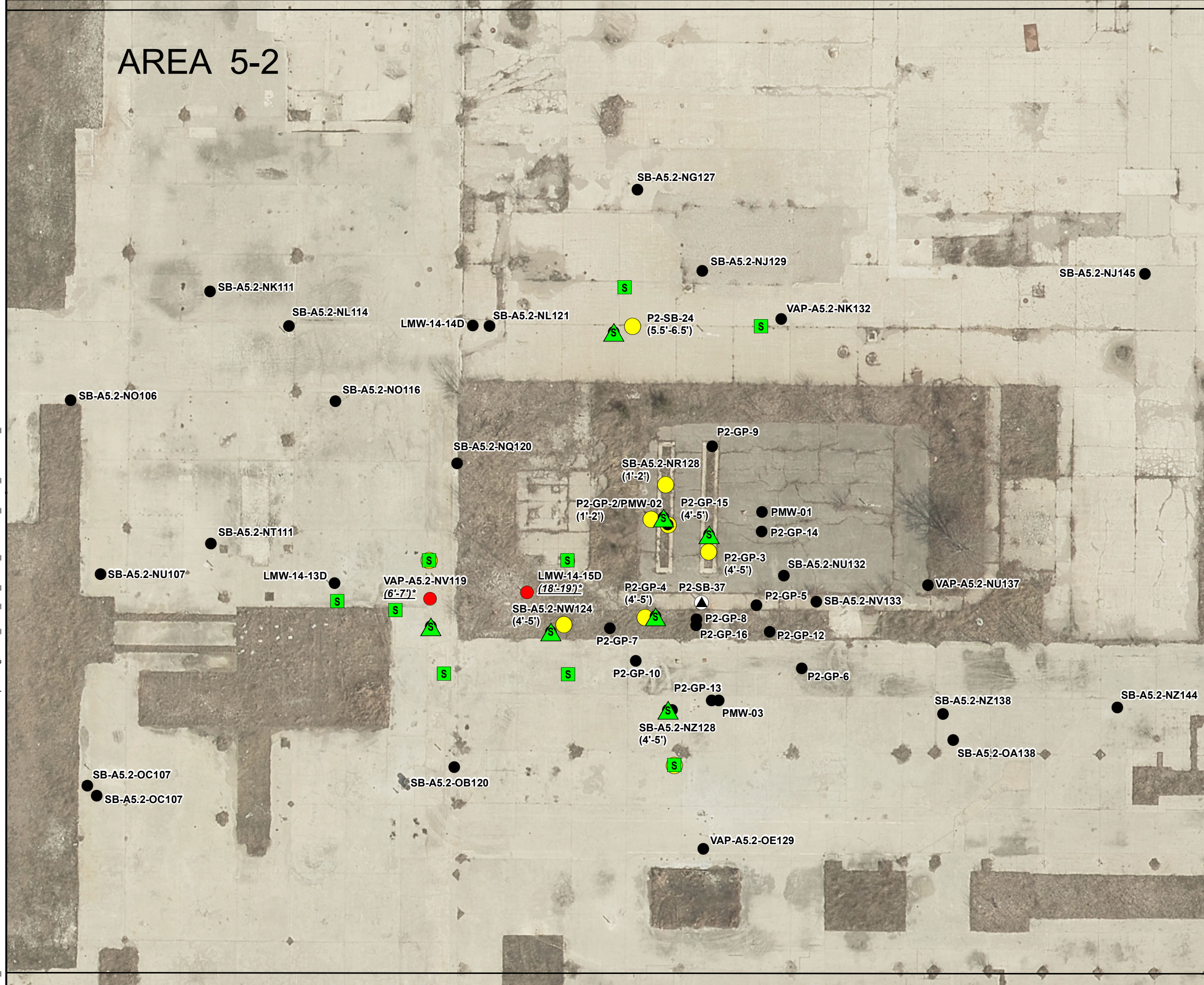


LEGEND	
	PLANT 2
	PLANT 6
	PCBs IN SOIL > 1 PPM BUT <= 25 PPM (LOW OCCUPANCY WITHOUT CAP)
	PCBs IN SOIL > 25 PPM BUT <= 100 PPM (LOW OCCUPANCY WITH CAP)

RACER TRUST PLANT 2 LANSING, MICHIGAN	
PLANT 2 AREA 5-2 PCB IMPACT LOCATION MAP	
	FIGURE 2A

AREA 5-2

CITY: Novi DIV: ENV DB: TRY PIC: Jeff Barrett PM: Randy Christensen TM: Tiffany Linder TR: PROJECT NUMBER: 30075941 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl T:\ENV\RACER\Buffalo\MXD\2020 P2 P3 Corrective Measures Workplan\Figure2B_Area 5-2_TSCA_Restricted_Areas_Sep12020_Shane09012021.mxd PLOTTED: 9/7/2021 1:13:00 PM BY: Dressback



Legend

- MONITORING WELL
- COMPLETED DELINEATION BORING LOCATION AND SURFACE SAMPLE LOCATION (Results provided on Figure 2C)
- COMPLETED SURFACE CAP CONFIRMATION SAMPLE LOCATION (Results provided on Figure 2D)
- PCBs > 25 PPM BUT <= 100 PPM
- PCBs < 25 PPM
- PCBs < 1 PPM

(4'-5') DEPTH OF PCB DETECTION IN SOIL > 1 PPM BUT <= 25 PPM
(4'-5)* DEPTH OF PCB DETECTION IN SOIL > 25 PPM BUT <= 100 PPM

NOTES:
 1.) POINT OF BEGINNING COORDINATES ARE GIVEN IN THE COORDINATE SYSTEM NAD 1983 STATEPLANE MICHIGAN SOUTH FIPS 2113 (INTERNATIONAL FEET).
 2.) COORDINATE SYSTEM IS IN NAD_1983_StatePlane_Michigan_South_FIPS_2113_Feet_Intl.
 3.) PCB DATA IS PROVIDED IN TABLE 1.

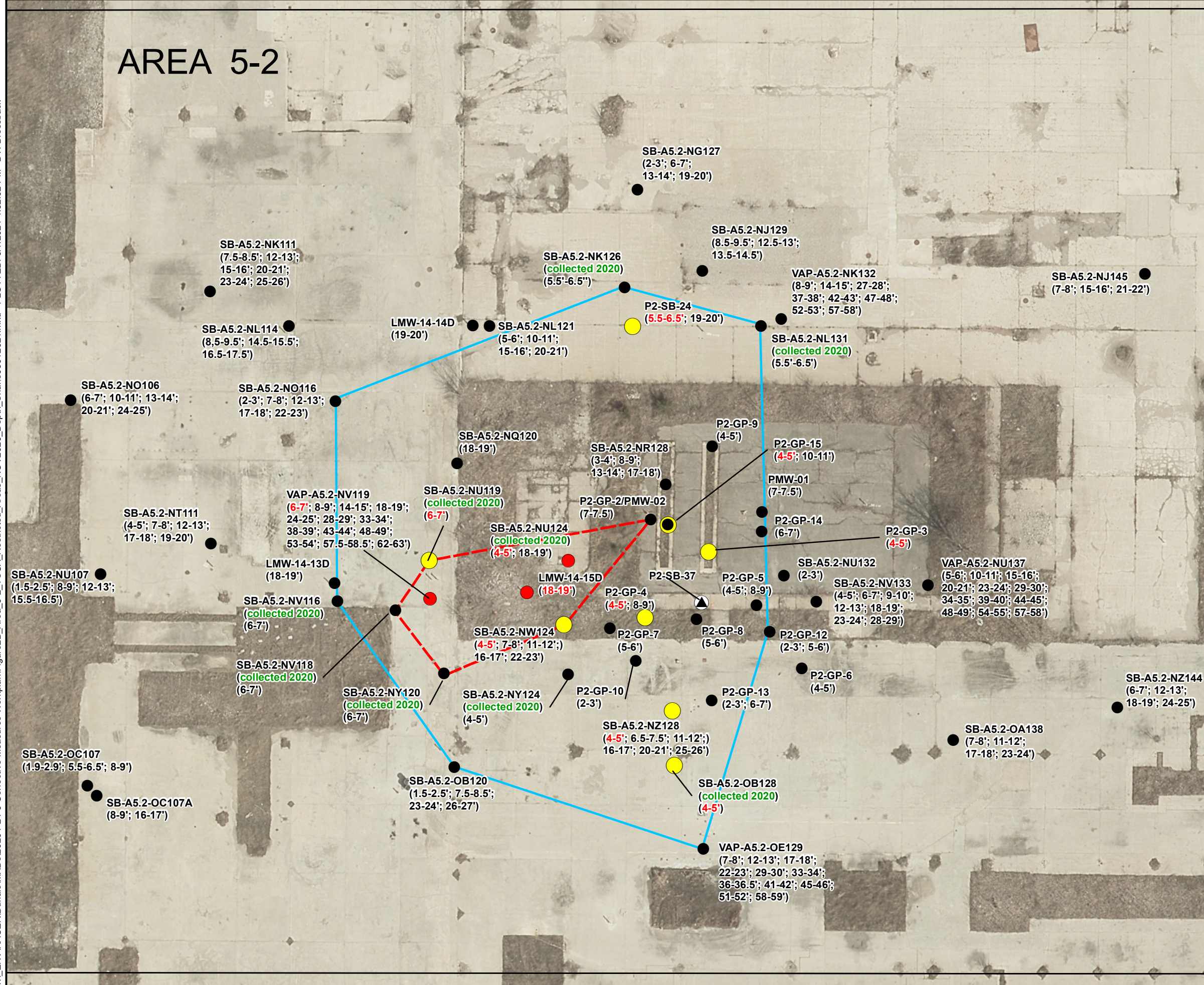


RACER TRUST
 PLANT 2
 LANSING, MICHIGAN

SAMPLING LOCATIONS FOR AREA 5-2 TSCA RESTRICTED AREAS



AREA 5-2



Legend

- MONITORING WELL
- PCBs > 25 PPM BUT < 100 PPM
- PCBs < 25 PPM
- PCBs < 1 PPM
- PCBs IN SOIL > 1 PPM BUT <= 25 PPM (LOW OCCUPANCY WITHOUT CAP)
- PCBs IN SOIL > 25 PPM BUT <= 100 PPM (LOW OCCUPANCY WITH CAP)
- (4-5') SOIL SAMPLE INTERVAL EXCEEDS RESPECTIVE PCB CRITERIA
- (collected 2020) SAMPLES COLLECTED FOR LOW OCCUPANCY DELINEATION

NOTES:
 1.) POINT OF BEGINNING COORDINATES ARE GIVEN IN THE COORDINATE SYSTEM NAD 1983 STATEPLANE MICHIGAN SOUTH FIPS 2113 (INTERNATIONAL FEET).
 2.) COORDINATE SYSTEM IS IN NAD_1983_StatePlane_Michigan_South_FIPS_2113_Feet_Intl.
 3.) PCB DATA IS PROVIDED IN TABLE 1 AND TABLE 3.

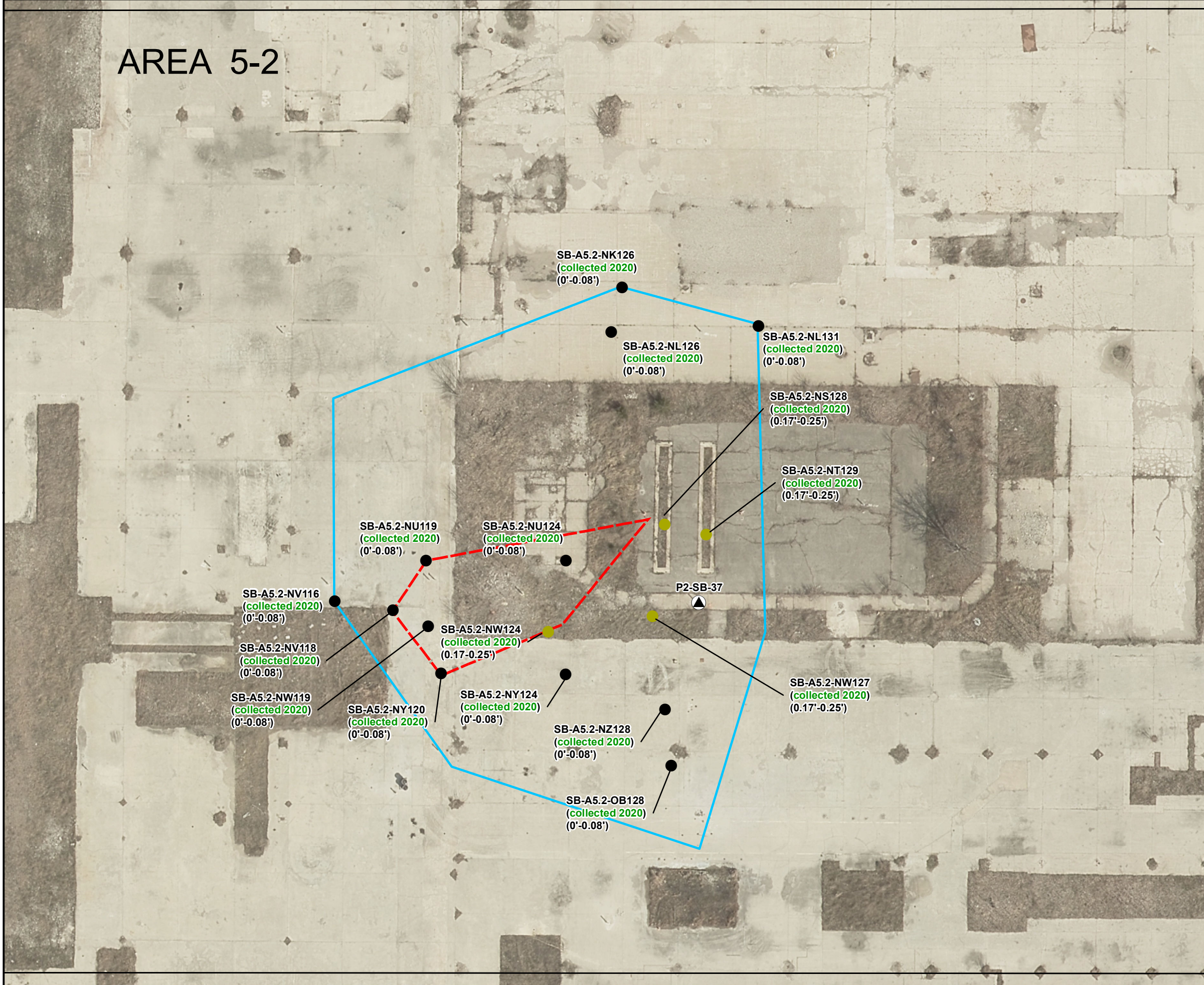


RACER TRUST
 PLANT 2
 LANSING, MICHIGAN

**AREA 5-2 TSCA
 PCB DELINEATION SOIL SAMPLES**

AREA 5-2

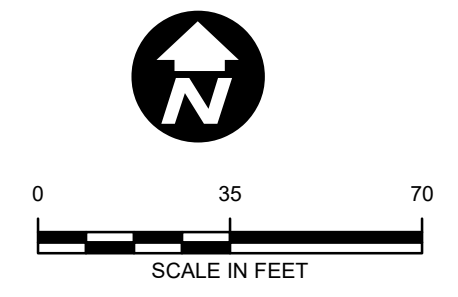
CITY: Novi DIV: ENV DB: TRY PIC: Jeff Barrett PM: Randy Christensen TM: Tiffany Linder TR: PROJECT NUMBER: 30075941 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
 T:_ENV\RACER\Buffalo\MXDs\2020 P2 P3 Corrective Measures Workplan\Figure2D_Area_5-2_TSCA_Restricted_Areas_NOV2020_SC_Shane09012021.mxd PLOTTED: 9/1/2021 9:30:39 PM BY: Dressback



- ### Legend
- MONITORING WELL
 - CONCRETE LOCATION - PCBs < 1 PPM
 - SOIL LOCATION - PCBs < 1 PPM
 - PCBs IN SOIL > 1 PPM BUT <= 25 PPM (LOW OCCUPANCY WITHOUT CAP)
 - PCBs IN SOIL > 25 PPM BUT <= 100 PPM (LOW OCCUPANCY WITH CAP)

(collected 2020) SURFACE SAMPLES COLLECTED FOR COVER VERIFICATION WHICH ALL RETURNED RESULTS LESS THAN 1PPM

NOTES:
 1.) POINT OF BEGINNING COORDINATES ARE GIVEN IN THE COORDINATE SYSTEM NAD 1983 STATEPLANE MICHIGAN SOUTH FIPS 2113 (INTERNATIONAL FEET).
 2.) COORDINATE SYSTEM IS IN NAD_1983_StatePlane_Michigan_South_FIPS_2113_Feet_Intl.
 3.) PCB DATA IS PROVIDED IN TABLE 3.



RACER TRUST
 PLANT 2
 LANSING, MICHIGAN

**AREA 5-2 TSCA
 SURFACE COVER SAMPLES**

Appendix A

Soil Boring Logs – October 2020 Investigation

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NK126 _0-0.08 @ 1035	NM	(0.0-0.7') CONCRETE.		(0.0-6.5' bgs) Backfilled with soil cuttings.	
2					0.0	(0.7-6.5') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/4). Note: Fill.			
3			78		0.0				
4					0.0				
5					0.0				
6				SB-A5.2-NK126 _5.5-6.5 @ 1040	0.0				
7						End of boring at 6.5' bgs.			
8									
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
				SB-A5.2-NL126 0-0.08@ 1215	NM		(0.0-0.08') CONCRETE. End of boring at 0.08' bgs.	(0.0-0.08' bgs) Concrete patch.	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

SOIL BORING LOG - 2013 C:\USER\CONELLI\ONEDRIVE - ARCADIS\DESKTOP\RACER LANSING 2020 PCB DELINEATION.GPJ ARCADIS_2013.GDT 11/30/20

Drilling Co.: Arcadis Sampling Method: Hammerdrill & Masonry Bit
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Sonic Drilling Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NL131 _0-0.08 @ 1050	NM	(0.0-0.7') CONCRETE.		(0.0-6.5' bgs) Backfilled with soil cuttings.	
2					0.0	(0.7-6.5') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; moist; yellowish brown (10YR 5/4). Note: Fill.			
3			78		0.0				
4					0.0				
5					0.0				
6				SB-A5.2-NL131 _5.5-6.5 @ 1100	0.1		Note: Slight very dark gray (10YR 3/1) discoloration and slight odor from 6.0-6.5' bgs.		
7					0.2		End of boring at 6.5' bgs.		
8									
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
			3	SB-A5.2-NS128	0.0		(0.0-0.25') SAND, very fine to fine, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/4). Note: Fill. Trace to little concrete fragments. End of boring at 0.25' bgs.	(0.0-0.25' bgs) Backfilled with soil cuttings.	
1				0.17-0.25 @ 1255					
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Metal Shovel
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Hand Auger Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 65°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
			3	SB-A5.2-NT129	0.0		(0.0-0.25') SAND, very fine to fine, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/4). Note: Fill. Trace to little concrete fragments. End of boring at 0.25' bgs.	(0.0-0.25' bgs) Backfilled with soil cuttings.	
1				0.17-0.25 @ 1245					
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Metal Shovel
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Hand Auger Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NU119 _0.0-0.08 @ 0940	NM		(0.0-0.75') CONCRETE.	(0.0-7.0' bgs) Backfilled with soil cuttings.	
2						(0.75-6.8') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/4).			
3			84						
4									
5									
6									
7				SB-A5.2-NU119 _6-7 @ 0955	1.0		Note: Slight gray (10YR 5/1) discoloration, and slight odor from 6.0-6.8' bgs.		
8							(6.8-7.0') CLAY, medium plasticity, no dilatancy; some silt; trace fine sand, subrounded; trace granules to medium pebbles, subrounded; dry to moist; stiff; gray (10YR 5/1). End of boring at 7.0' bgs.		
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well	
1				SB-A5.2-NU124 _0-0.8 @ 1225	NM		(0.0-0.75') CONCRETE.	(0.0-19.0' bgs) Backfilled with bentonite.		
2		48			0.0		(0.75-7.5') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; dry to moist; brownish yellow (10YR 6/6).			
3					0.0					
4					0.4					
5				SB-A5.2-NU124_4-5 @ 1230	0.6		Note: Slight discoloration, gray (10YR 5/1) to dark gray (10YR 4/1), with moderate odors from 5.0-7.5' bgs.			
6		48			0.3					
7					0.3					
8					0.4					(7.5-8.5') CLAY, low plasticity, no dilatancy; little silt; trace very fine to fine sand, subrounded; moist; soft; gray (10YR 5/1).
9				48	2.4		(8.5-10.5') SAND, very fine to fine, subrounded; and SILT, nonplastic, rapid dilatancy; little clay; well sorted; wet; soft; gray (10YR 5/1). Note: Moderate odor.			
10					0.2					
11					0.0					(10.5-16.5') CLAY, medium to high plasticity, no dilatancy; some silt; trace very fine to fine sand, subrounded; trace granules to large pebbles, subrounded; dry to moist; stiff; grayish brown (10YR 5/2).
12					0.0					
13				48	0.0					
14					0.0					
15					0.0					
16					0.0					
17				36	0.0		(16.5-19.0') SAND, very fine to fine, subrounded; trace silt; well sorted; wet.			
18					0.0					
19					0.0					
20							End of boring at 19.0' bgs.			

Drilling Co.: Terra Probe Sampling Method: 4.0 ft Dual Tube
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

SOIL BORING LOG - 2013 C:\USERS\CONELLI\ONE\DRIVE - ARCADIS\BESKTOP\RACER LANSING 2020 PCB DELINEATION.GPJ ARCADIS_20113.GDT 11/30/20

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NV116 _0-0.08 @ 1010	NM		(0.0-1.0') CONCRETE.		
2					0.0		(1.0-7.0') SAND, very fine to fine, subrounded; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/4). Note: Fill.		
3			84		0.0			(0.0-7.0' bgs) Backfilled with soil cuttings.	
4					0.0				
5					0.0				
6					0.0				
7				SB-A5.2-NV116 _6-7 @ 1020	0.0		Note: Slight very dark gray (10YR 3/1) discoloration from 6.5-7.0' bgs.		
8							End of boring at 7.0' bgs.		
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/14/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/14/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 55°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NV118_0-0.8 @ 0910	NM	(0.0-0.75') CONCRETE.		(0.0-7.0' bgs) Backfilled with soil cuttings.	
2			84		0.0	(0.75-7.0') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; yellowish brown (10YR 5/4). Note. Fill.			
3					0.0				
4					0.0				
5					0.0				
6					0.0				
7				SB-A5.2-NV118_6-7 @ 0915 and DUP-03(10142020)	0.0				
8						End of boring at 7.0' bgs.			
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-NW119 0-0.8 @ 1200 and DUP-01 (10132020)		NM	(0.0-0.08') CONCRETE. End of boring at 0.08' bgs.	(0.0-0.08' bgs) Concrete patch.	
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Hammerdrill & Masonry Bit
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Sonic Drilling Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
			3	SB-A5.2-NW124	0.0		(0.0-0.25') SAND, very fine to fine, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/4). Note: Fill. Trace silt to little concrete fragments. End of boring at 0.25' bgs.	(0.0-0.25' bgs) Backfilled with soil cuttings.	
1				0.17-0.25 @ 1310					
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Metal Shovel
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Hand Auger Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1			3	SB-A5.2-NW127 0.017-0.25 @ 1230 and DUP-02 (10132020)	0.0		(0.0-0.25') SAND, very fine to fine, subrounded; trace silt; well sorted; dry; yellowish brown (10YR 5/4). Note: Fill. Trace to little concrete fragments. End of boring at 0.25' bgs.	(0.0-0.25' bgs) Backfilled with soil cuttings.	
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Metal Shovel
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Hand Auger Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
0				SB-A5.2-NY120 _0-0.08 @ 1515			(0.0-0.75') CONCRETE.		
1					NM				
2					0.0		(0.75-7.0') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; dry to moist; yellowish brown (10YR 5/4) to dark brown (10YR 3/3).		
3					0.0				
4			84		0.0			(0.0-7.0' bgs) Backfilled with soil cuttings.	
5					0.0				
6					0.0				
7				SB-A5.2-NY120 _6-7 @ 1525	0.3				
8							End of boring at 7.0' bgs.		
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Cloudy, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1			60	SB-A5.2-NY124 _0-0.08 @ 1500	NA	(0.0-0.75') CONCRETE.		(0.0-5.0' bgs) Backfilled with soil cuttings.	
2						(0.75-5.0') SAND, very fine to fine, subrounded; trace granules, subrounded; trace silt; moist; well sorted; yellowish brown (10YR 5/4).			
3									
4									
5				SB-A5.2-NY124 _4-5 @ 1335	0.0				
6							End of boring at 5.0' bgs.		
7									
8									
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coord.: _____
 East Coord.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
				SB-A5.2-NZ128 0-0.08 @ 1135	NM		(0.0-0.08') CONCRETE. End of boring at 0.08' bgs.	(0.0-0.08' bgs) Concrete patch.	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Drilling Co.: Arcadis Sampling Method: Hammerdrill & Masonry Bit
 Driller: Austin Westhuis Sampling Interval: Continuous
 Drilling Method: Sonic Drilling Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. btoc.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Soil Boring Log

Project Name: RACER Lansing Date Started: 10/13/2020 Logger: A. Westhuis
 Project Number: 30042872.00102 Date Completed: 10/13/2020 Editor: M. Humphrey
 Project Location: Lansing, MI Weather Conditions: Sunny, 60°F

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Sample ID	PID (ppm)	USCS Class	Description	Construction Details	Well
1				SB-A5.2-OB128 _0-0.08 @ 1435	NM		(0.0-2.0') CONCRETE.		
2					NM				
3			60		0.0		(2.0-5.0') SAND, very to fine to fine, subrounded; trace granules, subrounded; trace silt; well sorted; moist; yellowish brown (10YR 5/4) to dark brown (10YR 3/3). Note: Fill.	(0.0-5.0' bgs) Backfilled with soil cuttings.	
4					0.3				
5				SB-A5.2-OB128 _4-5 @ 1450	0.8				
6							End of boring at 5.0' bgs.		
7									
8									
9									
10									

Drilling Co.: Terra Probe Sampling Method: Macrocore
 Driller: Pat Hogan Sampling Interval: Continuous
 Drilling Method: Geoprobe Water Level Start (ft. bgs.): NA
 Drilling Fluid: None Water Level Finish (ft. bgs.): NA
 Remarks: _____ Converted to Well: Yes No
 Surface Elev.: NA
 North Coor.: _____
 East Coor.: _____

Appendix B

Analytical Reports for 2020 Soil PCB Investigation



Analytical Laboratory Report

Revised Report

Report ID: S18303.01(02)+QC02
Generated on 10/21/2020
Replaces report S18303.01(01) generated on 10/20/2020

Report to

Attention: Tiffany Linder
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Phone: 248-994-2272 FAX: 248-994-2241
Email: tiffany.linder@arcadis-us.com

Additional Contacts: Alex Villhauer, Kaitlyn Voet, Marina Samp

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:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S18303.01-S18303.29
Project: 30042872.00102 / RACER Lansing
Collected Date(s): 10/13/2020 - 10/14/2020
Submitted Date/Time: 10/14/2020 15:15
Sampled by: Austin Westhuis
P.O. #: 30042872.00102

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- Sample Summary (Page 5)
- QC Report (Pages 35-102)

Maya Murshak
Technical Director



General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the 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. Starred (*) analytes are not NELAP accredited.

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.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Report Narrative

Sample .21 tag updated per client request



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
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

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
LN	Linear
BR	Branched



Method Summary

Method	Version
SM2540B	Standard Method 2540 B 2011
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007



Sample Summary (29 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S18303.01	SB-A5.2-NZ128_0-0.08	Soil	10/13/20 11:35
S18303.02	SB-A5.2-NW119_0-0.08	Soil	10/13/20 12:00
S18303.03	DUP-01(10132020)	Soil	10/13/20 00:01
S18303.04	SB-A5.2-NL126_0-0.08	Soil	10/13/20 12:15
S18303.05	SB-A5.2-NW127_0.17-0.25	Soil	10/13/20 12:30
S18303.06	DUP-02(10132020)	Soil	10/13/20 00:01
S18303.07	SB-A5.2-NT129_0.17-0.25	Soil	10/13/20 12:45
S18303.08	SB-A5.2-NS128_0.17-0.25	Soil	10/13/20 12:55
S18303.09	SB-A5.2-NW124_0.17-0.25	Soil	10/13/20 13:10
S18303.10	SB-A5.2-OB128_0-0.08	Soil	10/13/20 14:35
S18303.11	SB-A5.2-OB128_4-5	Soil	10/13/20 14:50
S18303.12	SB-A5.2-NY124_0-0.08	Soil	10/13/20 15:00
S18303.13	SB-A5.2-NY120_0-0.08	Soil	10/13/20 15:15
S18303.14	SB-A5.2-NY120_6-7	Soil	10/13/20 15:25
S18303.15	SB-A5.2-NV118_0-0.08	Soil	10/14/20 09:10
S18303.16	SB-A5.2-NV118_6-7	Soil	10/14/20 09:15
S18303.17	DUP-03(10142020)	Soil	10/14/20 00:01
S18303.18	SB-A5.2-NU119_0-0.08	Soil	10/14/20 09:40
S18303.19	SB-A5.2-NU119_6-7	Soil	10/14/20 09:55
S18303.20	SB-A5.2-NV116_0-0.08	Soil	10/14/20 10:10
S18303.21	SB-A5.2-NV116_6-7	Soil	10/14/20 10:20
S18303.22	SB-A5.2-NK126_0-0.08	Soil	10/14/20 10:35
S18303.23	SB-A5.2-NK126_5.5-6.5	Soil	10/14/20 10:40
S18303.24	SB-A5.2-NL131_0-0.08	Soil	10/14/20 10:50
S18303.25	SB-A5.2-NL131_5.5-6.5	Soil	10/14/20 11:00
S18303.26	SB-A5.2-NU124_0-0.08	Soil	10/14/20 12:25
S18303.27	SB-A5.2-NU124_4-5	Soil	10/14/20 12:30
S18303.28	SB-A5.2-NU124_18-19	Soil	10/14/20 13:00
S18303.29	SB-A5.2-NY124_4-5	Soil	10/14/20 13:35



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.01

Sample Tag: SB-A5.2-NZ128_0-0.08

Collected Date/Time: 10/13/2020 11:35

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 15:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.02

Sample Tag: SB-A5.2-NW119_0-0.08

Collected Date/Time: 10/13/2020 12:00

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 15:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.03

Sample Tag: DUP-01(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 16:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.04

Sample Tag: SB-A5.2-NL126_0-0.08

Collected Date/Time: 10/13/2020 12:15

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 16:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.05

Sample Tag: SB-A5.2-NW127_0.17-0.25

Collected Date/Time: 10/13/2020 12:30

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 16:28, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.06

Sample Tag: DUP-02(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 16:40, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.07

Sample Tag: SB-A5.2-NT129_0.17-0.25

Collected Date/Time: 10/13/2020 12:45

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	83	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 16:52, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.08

Sample Tag: SB-A5.2-NS128_0.17-0.25

Collected Date/Time: 10/13/2020 12:55

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	82	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 17:04, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.09

Sample Tag: SB-A5.2-NW124_0.17-0.25

Collected Date/Time: 10/13/2020 13:10

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/14/20 16:30	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/15/20 17:16, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.10

Sample Tag: SB-A5.2-OB128_0-0.08

Collected Date/Time: 10/13/2020 14:35

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 14:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	5	12674-11-2		
PCB-1242	Not detected	330		ug/kg	5	53469-21-9		
PCB-1221	Not detected	330		ug/kg	5	11104-28-2		
PCB-1232	Not detected	330		ug/kg	5	11141-16-5		
PCB-1248	Not detected	330		ug/kg	5	12672-29-6		
PCB-1254	Not detected	330		ug/kg	5	11097-69-1		
PCB-1260	Not detected	330		ug/kg	5	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.11

Sample Tag: SB-A5.2-OB128_4-5

Collected Date/Time: 10/13/2020 14:50

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	87	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 16:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y	
PCB-1242	Not detected	600		ug/kg	100	53469-21-9	Y	
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y	
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y	
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y	
PCB-1254	4,400	600		ug/kg	100	11097-69-1	Y	
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.12

Sample Tag: SB-A5.2-NY124_0-0.08

Collected Date/Time: 10/13/2020 15:00

Matrix: Soil

COC Reference: 125853

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 15:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.13

Sample Tag: SB-A5.2-NY120_0-0.08

Collected Date/Time: 10/13/2020 15:15

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 15:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.14

Sample Tag: SB-A5.2-NY120_6-7

Collected Date/Time: 10/13/2020 15:25

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	93	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 17:33, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.15

Sample Tag: SB-A5.2-NV118_0-0.08

Collected Date/Time: 10/14/2020 09:10

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 15:30, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.16

Sample Tag: SB-A5.2-NV118_6-7

Collected Date/Time: 10/14/2020 09:15

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 17:05, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.17

Sample Tag: DUP-03(10142020)

Collected Date/Time: 10/14/2020 00:01

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	89	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 17:17, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.18

Sample Tag: SB-A5.2-NU119_0-0.08

Collected Date/Time: 10/14/2020 09:40

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 15:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.19

Sample Tag: SB-A5.2-NU119_6-7

Collected Date/Time: 10/14/2020 09:55

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	86	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 16:42, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	600		ug/kg	100	12674-11-2	Y	
PCB-1242	6,100	600		ug/kg	100	53469-21-9	Y	
PCB-1221	Not detected	600		ug/kg	100	11104-28-2	Y	
PCB-1232	Not detected	600		ug/kg	100	11141-16-5	Y	
PCB-1248	Not detected	600		ug/kg	100	12672-29-6	Y	
PCB-1254	Not detected	600		ug/kg	100	11097-69-1	Y	
PCB-1260	Not detected	600		ug/kg	100	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.20

Sample Tag: SB-A5.2-NV116_0-0.08

Collected Date/Time: 10/14/2020 10:10

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 15:54, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.21

Sample Tag: SB-A5.2-NV116_6-7

Collected Date/Time: 10/14/2020 10:20

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	88	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 17:29, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.22

Sample Tag: SB-A5.2-NK126_0-0.08

Collected Date/Time: 10/14/2020 10:35

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 16:06, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.23

Sample Tag: SB-A5.2-NK126_5.5-6.5

Collected Date/Time: 10/14/2020 10:40

Matrix: Soil

COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	92	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 17:41, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.24

Sample Tag: SB-A5.2-NL131_0-0.08
Collected Date/Time: 10/14/2020 10:50
Matrix: Soil
COC Reference: 125861

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/15/20 14:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/16/20 16:18, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.25

Sample Tag: SB-A5.2-NL131_5.5-6.5

Collected Date/Time: 10/14/2020 11:00

Matrix: Soil

COC Reference: 125862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/19/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	94	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 19:09, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	400	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.26

Sample Tag: SB-A5.2-NU124_0-0.08

Collected Date/Time: 10/14/2020 12:25

Matrix: Soil

COC Reference: 125862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/19/20 11:00	CM	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 17:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	1	12674-11-2		
PCB-1242	Not detected	330		ug/kg	1	53469-21-9		
PCB-1221	Not detected	330		ug/kg	1	11104-28-2		
PCB-1232	Not detected	330		ug/kg	1	11141-16-5		
PCB-1248	Not detected	330		ug/kg	1	12672-29-6		
PCB-1254	Not detected	330		ug/kg	1	11097-69-1		
PCB-1260	Not detected	330		ug/kg	1	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.27

Sample Tag: SB-A5.2-NU124_4-5

Collected Date/Time: 10/14/2020 12:30

Matrix: Soil

COC Reference: 125862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/19/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	97	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 18:21, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	5,000		ug/kg	1000	12674-11-2	Y	
PCB-1242	46,000	5,000		ug/kg	1000	53469-21-9	Y	
PCB-1221	Not detected	5,000		ug/kg	1000	11104-28-2	Y	
PCB-1232	Not detected	5,000		ug/kg	1000	11141-16-5	Y	
PCB-1248	Not detected	5,000		ug/kg	1000	12672-29-6	Y	
PCB-1254	Not detected	5,000		ug/kg	1000	11097-69-1	Y	
PCB-1260	Not detected	5,000		ug/kg	1000	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.28

Sample Tag: SB-A5.2-NU124_18-19

Collected Date/Time: 10/14/2020 13:00

Matrix: Soil

COC Reference: 125862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/19/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	81	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 17:45, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Revised Report

Lab Sample ID: S18303.29

Sample Tag: SB-A5.2-NY124_4-5

Collected Date/Time: 10/14/2020 13:35

Matrix: Soil

COC Reference: 125862

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	5.7	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	10/19/20 11:00	CM	

Inorganics

Method: SM2540B, Run Date: 10/15/20 09:32, Analyst: BML

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Total Solids*	85	1		%	1			

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 10/19/20 17:57, Analyst: JANB

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	Not detected	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Quality Control Report

Report ID: S18303.01(02)+QC02
Generated on 10/21/2020

Report to
Attention: Tiffany Linder
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, MI 48377

Report Produced by
Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

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

Phone: 248-994-2272 FAX: 248-994-2241

Report Summary

Lab Sample ID(s): S18303.01-S18303.29
Project: 30042872.00102 / RACER Lansing
Submitted Date/Time: 10/14/2020 15:15
Sampled by: Austin Westhuis
P.O. #: 30042872.00102

QC Report Sections

Cover Page (Page 35)
Analysis Summary (Pages 36-64)
Prep Batch Summary (Pages 65-66)
Surrogates per Lab Sample (Pages 67-95)
Surrogates per QC Sample (Pages 96-98)
Batch QC Results (Pages 99-102)

Report Flag Descriptions

*: QC result is outside of indicated control limits
W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball
Quality Assurance Manager

QC Report - Analysis Summary

Lab Sample ID: S18303.01

Sample Tag: SB-A5.2-NZ128_0-0.08

Collected Date/Time: 10/13/2020 11:35

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 15:41	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.02

Sample Tag: SB-A5.2-NW119_0-0.08

Collected Date/Time: 10/13/2020 12:00

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 15:52	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.03

Sample Tag: DUP-01(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 16:04	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.04

Sample Tag: SB-A5.2-NL126_0-0.08

Collected Date/Time: 10/13/2020 12:15

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 16:16	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.05

Sample Tag: SB-A5.2-NW127_0.17-0.25

Collected Date/Time: 10/13/2020 12:30

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 16:28	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.06

Sample Tag: DUP-02(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 16:40	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.07

Sample Tag: SB-A5.2-NT129_0.17-0.25

Collected Date/Time: 10/13/2020 12:45

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 16:52	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.08

Sample Tag: SB-A5.2-NS128_0.17-0.25

Collected Date/Time: 10/13/2020 12:55

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 17:04	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.09

Sample Tag: SB-A5.2-NW124_0.17-0.25

Collected Date/Time: 10/13/2020 13:10

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/15/20 17:16	E201015	PA201014S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.10

Sample Tag: SB-A5.2-OB128_0-0.08

Collected Date/Time: 10/13/2020 14:35

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 14:54	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.11

Sample Tag: SB-A5.2-OB128_4-5

Collected Date/Time: 10/13/2020 14:50

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 16:54	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.12

Sample Tag: SB-A5.2-NY124_0-0.08

Collected Date/Time: 10/13/2020 15:00

Matrix: Soil

COC Reference: 125853

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 15:06	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.13

Sample Tag: SB-A5.2-NY120_0-0.08

Collected Date/Time: 10/13/2020 15:15

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 15:18	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.14

Sample Tag: SB-A5.2-NY120_6-7

Collected Date/Time: 10/13/2020 15:25

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/19/20 17:33	E201019	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.15

Sample Tag: SB-A5.2-NV118_0-0.08

Collected Date/Time: 10/14/2020 09:10

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 15:30	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.16

Sample Tag: SB-A5.2-NV118_6-7

Collected Date/Time: 10/14/2020 09:15

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 17:05	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.17

Sample Tag: DUP-03(10142020)

Collected Date/Time: 10/14/2020 00:01

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 17:17	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.18

Sample Tag: SB-A5.2-NU119_0-0.08

Collected Date/Time: 10/14/2020 09:40

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 15:42	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.19

Sample Tag: SB-A5.2-NU119_6-7

Collected Date/Time: 10/14/2020 09:55

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 16:42	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.20

Sample Tag: SB-A5.2-NV116_0-0.08

Collected Date/Time: 10/14/2020 10:10

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 15:54	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.21

Sample Tag: SB-A5.2-NV116_6-7

Collected Date/Time: 10/14/2020 10:20

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 17:29	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.22

Sample Tag: SB-A5.2-NK126_0-0.08

Collected Date/Time: 10/14/2020 10:35

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 16:06	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.23

Sample Tag: SB-A5.2-NK126_5.5-6.5

Collected Date/Time: 10/14/2020 10:40

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
<i>Organics - PCBs/Pesticides</i>						
PCB List	SW8082A	10/16/20 17:41	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.24

Sample Tag: SB-A5.2-NL131_0-0.08

Collected Date/Time: 10/14/2020 10:50

Matrix: Soil

COC Reference: 125861

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/16/20 16:18	E201016	PA201015S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.25

Sample Tag: SB-A5.2-NL131_5.5-6.5

Collected Date/Time: 10/14/2020 11:00

Matrix: Soil

COC Reference: 125862

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
<i>Organics - PCBs/Pesticides</i>						
PCB List	SW8082A	10/19/20 19:09	E201019	PA201019S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.26

Sample Tag: SB-A5.2-NU124_0-0.08

Collected Date/Time: 10/14/2020 12:25

Matrix: Soil

COC Reference: 125862

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/19/20 17:21	E201019	PA201019S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.27

Sample Tag: SB-A5.2-NU124_4-5

Collected Date/Time: 10/14/2020 12:30

Matrix: Soil

COC Reference: 125862

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/19/20 18:21	E201019	PA201019S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.28

Sample Tag: SB-A5.2-NU124_18-19

Collected Date/Time: 10/14/2020 13:00

Matrix: Soil

COC Reference: 125862

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
<i>Organics - PCBs/Pesticides</i>						
PCB List	SW8082A	10/19/20 17:45	E201019	PA201019S1	Yes	BLK/LCS/MS/MSD

QC Report - Analysis Summary

Lab Sample ID: S18303.29

Sample Tag: SB-A5.2-NY124_4-5

Collected Date/Time: 10/14/2020 13:35

Matrix: Soil

COC Reference: 125862

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	10/15/20 09:32	TS201015C	TS201015C	No	BLK/LCS/DUP
Organics - PCBs/Pesticides						
PCB List	SW8082A	10/19/20 17:57	E201019	PA201019S1	Yes	BLK/LCS/MS/MSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: TS201015C

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S18303.05	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.06	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.07	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.08	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.09	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.11	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.14	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.16	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.17	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.19	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.21	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.23	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.25	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.27	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.28	Total Solids	SM2540B	10/15/20 09:32	TS201015C
S18303.29	Total Solids	SM2540B	10/15/20 09:32	TS201015C

Organics - PCBs/Pesticides, Prep Batch ID: PA201014S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S18303.01	PCB List	SW8082A	10/15/20 15:41	E201015
S18303.02	PCB List	SW8082A	10/15/20 15:52	E201015
S18303.03	PCB List	SW8082A	10/15/20 16:04	E201015
S18303.04	PCB List	SW8082A	10/15/20 16:16	E201015
S18303.05	PCB List	SW8082A	10/15/20 16:28	E201015
S18303.06	PCB List	SW8082A	10/15/20 16:40	E201015
S18303.07	PCB List	SW8082A	10/15/20 16:52	E201015
S18303.08	PCB List	SW8082A	10/15/20 17:04	E201015
S18303.09	PCB List	SW8082A	10/15/20 17:16	E201015

Organics - PCBs/Pesticides, Prep Batch ID: PA201015S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S18303.10	PCB List	SW8082A	10/16/20 14:54	E201016
S18303.11	PCB List	SW8082A	10/16/20 16:54	E201016
S18303.12	PCB List	SW8082A	10/16/20 15:06	E201016
S18303.13	PCB List	SW8082A	10/16/20 15:18	E201016
S18303.14	PCB List	SW8082A	10/19/20 17:33	E201019
S18303.15	PCB List	SW8082A	10/16/20 15:30	E201016
S18303.16	PCB List	SW8082A	10/16/20 17:05	E201016
S18303.17	PCB List	SW8082A	10/16/20 17:17	E201016
S18303.18	PCB List	SW8082A	10/16/20 15:42	E201016
S18303.19	PCB List	SW8082A	10/16/20 16:42	E201016
S18303.20	PCB List	SW8082A	10/16/20 15:54	E201016
S18303.21	PCB List	SW8082A	10/16/20 17:29	E201016
S18303.22	PCB List	SW8082A	10/16/20 16:06	E201016
S18303.23	PCB List	SW8082A	10/16/20 17:41	E201016
S18303.24	PCB List	SW8082A	10/16/20 16:18	E201016

QC Report - Prep Batch Summary

Organics - PCBs/Pesticides, Prep Batch ID: PA201019S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S18303.25	PCB List	SW8082A	10/19/20 19:09	E201019
S18303.26	PCB List	SW8082A	10/19/20 17:21	E201019
S18303.27	PCB List	SW8082A	10/19/20 18:21	E201019
S18303.28	PCB List	SW8082A	10/19/20 17:45	E201019
S18303.29	PCB List	SW8082A	10/19/20 17:57	E201019

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.01

Sample Tag: SB-A5.2-NZ128_0-0.08

Collected Date/Time: 10/13/2020 11:35

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 15:41, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		107.00	33.0	135.3
DCBP		86.50	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.02

Sample Tag: SB-A5.2-NW119_0-0.08

Collected Date/Time: 10/13/2020 12:00

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 15:52, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		102.40	33.0	135.3
DCBP		85.10	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.03

Sample Tag: DUP-01(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 16:04, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		103.20	33.0	135.3
DCBP		86.80	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.04

Sample Tag: SB-A5.2-NL126_0-0.08

Collected Date/Time: 10/13/2020 12:15

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 16:16, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		88.30	33.0	135.3
DCBP		84.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.05

Sample Tag: SB-A5.2-NW127_0.17-0.25

Collected Date/Time: 10/13/2020 12:30

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 16:28, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	94.00	33.0	135.3
DCBP	W	74.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.06

Sample Tag: DUP-02(10132020)

Collected Date/Time: 10/13/2020 00:01

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 16:40, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	83.00	33.0	135.3
DCBP	W	66.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.07

Sample Tag: SB-A5.2-NT129_0.17-0.25

Collected Date/Time: 10/13/2020 12:45

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 16:52, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	76.00	33.0	135.3
DCBP	W	55.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.08

Sample Tag: SB-A5.2-NS128_0.17-0.25

Collected Date/Time: 10/13/2020 12:55

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 17:04, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	90.00	33.0	135.3
DCBP	W	57.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.09

Sample Tag: SB-A5.2-NW124_0.17-0.25

Collected Date/Time: 10/13/2020 13:10

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201015, Run Date: 10/15/2020 17:16, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	105.00	33.0	135.3
DCBP	W	83.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.10

Sample Tag: SB-A5.2-OB128_0-0.08

Collected Date/Time: 10/13/2020 14:35

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 14:54, Matrix: SO, Dilution: 5

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	111.00	33.0	135.3
DCBP	W	67.50	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.11

Sample Tag: SB-A5.2-OB128_4-5

Collected Date/Time: 10/13/2020 14:50

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 16:54, Matrix: SO, Dilution: 100

Surrogate	Flags	%Rec	LCL	UCL
TCX	W*	0.00	33.0	135.3

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.12

Sample Tag: SB-A5.2-NY124_0-0.08

Collected Date/Time: 10/13/2020 15:00

Matrix: Soil

COC Reference: 125853

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 15:06, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		117.80	33.0	135.3
DCBP		98.20	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.13

Sample Tag: SB-A5.2-NY120_0-0.08

Collected Date/Time: 10/13/2020 15:15

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 15:18, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		109.70	33.0	135.3
DCBP		81.20	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.14

Sample Tag: SB-A5.2-NY120_6-7

Collected Date/Time: 10/13/2020 15:25

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 17:33, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	95.00	33.0	135.3
DCBP	W	69.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.15

Sample Tag: SB-A5.2-NV118_0-0.08

Collected Date/Time: 10/14/2020 09:10

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 15:30, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		100.90	33.0	135.3
DCBP		90.10	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.16

Sample Tag: SB-A5.2-NV118_6-7

Collected Date/Time: 10/14/2020 09:15

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 17:05, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	92.00	33.0	135.3
DCBP	W	66.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.17

Sample Tag: DUP-03(10142020)

Collected Date/Time: 10/14/2020 00:01

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 17:17, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	94.00	33.0	135.3
DCBP	W	61.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.18

Sample Tag: SB-A5.2-NU119_0-0.08

Collected Date/Time: 10/14/2020 09:40

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 15:42, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		100.10	33.0	135.3
DCBP		90.10	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.19

Sample Tag: SB-A5.2-NU119_6-7

Collected Date/Time: 10/14/2020 09:55

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 16:42, Matrix: SO, Dilution: 100

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	110.00	33.0	135.3

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.20

Sample Tag: SB-A5.2-NV116_0-0.08

Collected Date/Time: 10/14/2020 10:10

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 15:54, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		97.90	33.0	135.3
DCBP		90.20	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.21

Sample Tag: SB-A5.2-NV116_6-7

Collected Date/Time: 10/14/2020 10:20

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 17:29, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	90.00	33.0	135.3
DCBP	W	70.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.22

Sample Tag: SB-A5.2-NK126_0-0.08

Collected Date/Time: 10/14/2020 10:35

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 16:06, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		98.60	33.0	135.3
DCBP		77.50	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.23

Sample Tag: SB-A5.2-NK126_5.5-6.5

Collected Date/Time: 10/14/2020 10:40

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 17:41, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W*	136.00	33.0	135.3
DCBP	W	124.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.24

Sample Tag: SB-A5.2-NL131_0-0.08

Collected Date/Time: 10/14/2020 10:50

Matrix: Soil

COC Reference: 125861

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201016, Run Date: 10/16/2020 16:18, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	99.90	33.0	135.3
DCBP	W	102.10	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.25

Sample Tag: SB-A5.2-NL131_5.5-6.5

Collected Date/Time: 10/14/2020 11:00

Matrix: Soil

COC Reference: 125862

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 19:09, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	96.00	33.0	135.3
DCBP	W	70.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.26

Sample Tag: SB-A5.2-NU124_0-0.08

Collected Date/Time: 10/14/2020 12:25

Matrix: Soil

COC Reference: 125862

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 17:21, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		90.90	33.0	135.3
DCBP		97.30	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.27

Sample Tag: SB-A5.2-NU124_4-5

Collected Date/Time: 10/14/2020 12:30

Matrix: Soil

COC Reference: 125862

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 18:21, Matrix: SO, Dilution: 1000

Surrogate	Flags	%Rec	LCL	UCL
TCX	W*	-1800.00	33.0	135.3

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.28

Sample Tag: SB-A5.2-NU124_18-19

Collected Date/Time: 10/14/2020 13:00

Matrix: Soil

COC Reference: 125862

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 17:45, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W*	141.00	33.0	135.3
DCBP	W	71.00	30.0	137.0

QC Report - Surrogates per Lab Sample

Lab Sample ID: S18303.29

Sample Tag: SB-A5.2-NY124_4-5

Collected Date/Time: 10/14/2020 13:35

Matrix: Soil

COC Reference: 125862

Organics - PCBs/Pesticides, Analysis: PCB List

Run in Batch: E201019, Run Date: 10/19/2020 17:57, Matrix: SO, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
TCX	W	58.00	33.0	135.3
DCBP	W	47.00	30.0	137.0

QC Report - Surrogates per QC Sample

Organics - PCBs/Pesticides, Prep Batch ID: PA201014S1

QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101508.sblk-s.01

Run in Batch: A201015, Run Date: 10/15/2020 15:10, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		86.50	33.0	135.3
DCBP		100.80	30.0	137.0

Laboratory Control Sample (LCS)

Lab Sample ID: a20101509.slcs-s.01

Run in Batch: A201015, Run Date: 10/15/2020 15:21, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		92.70	33.0	135.3
DCBP		104.40	30.0	137.0

Matrix Spike (MS)

Lab Sample ID: a20101506.s18183.10m, Parent Sample ID: S18183.10

Run in Batch: A201015, Run Date: 10/15/2020 14:40, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		92.40	33.0	135.3
DCBP		102.20	30.0	137.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101507.s18183.10n, Parent Sample ID: a20101506.s18183.10m

Run in Batch: A201015, Run Date: 10/15/2020 14:57, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		90.30	33.0	135.3
DCBP		105.00	30.0	137.0

QC Report - Surrogates per QC Sample

Organics - PCBs/Pesticides, Prep Batch ID: PA201015S1

QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101616.sblk-s.02

Run in Batch: A201016, Run Date: 10/16/2020 16:03, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		90.80	33.0	135.3
DCBP		104.60	30.0	137.0

Laboratory Control Sample (LCS)

Lab Sample ID: a20101617.slcs-s.02

Run in Batch: A201016, Run Date: 10/16/2020 16:14, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		91.80	33.0	135.3
DCBP		113.90	30.0	137.0

Matrix Spike (MS)

Lab Sample ID: a20101614.s18311.05m, Parent Sample ID: S18311.05

Run in Batch: A201016, Run Date: 10/16/2020 15:41, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		93.70	33.0	135.3
DCBP		99.60	30.0	137.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101615.s18311.05n, Parent Sample ID: a20101614.s18311.05m

Run in Batch: A201016, Run Date: 10/16/2020 15:52, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		85.90	33.0	135.3
DCBP		92.90	30.0	137.0

QC Report - Surrogates per QC Sample

Organics - PCBs/Pesticides, Prep Batch ID: PA201019S1

QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101913.sblk-s.01

Run in Batch: A201019, Run Date: 10/19/2020 18:25, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		83.90	33.0	135.3
DCBP		80.70	30.0	137.0

Laboratory Control Sample (LCS)

Lab Sample ID: a20101914.slcs-s.01

Run in Batch: A201019, Run Date: 10/19/2020 18:36, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		89.00	33.0	135.3
DCBP		89.60	30.0	137.0

Matrix Spike (MS)

Lab Sample ID: a20101911.s18359.05m, Parent Sample ID: S18359.05

Run in Batch: A201019, Run Date: 10/19/2020 18:03, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		90.30	33.0	135.3
DCBP		81.60	30.0	137.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101912.s18359.05n, Parent Sample ID: a20101911.s18359.05m

Run in Batch: A201019, Run Date: 10/19/2020 18:14, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		76.20	33.0	135.3
DCBP		77.00	30.0	137.0

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TS201015C

Surrogates: No, QC Types: BLK/LCS/DUP

Blank (BLK)

Lab Sample ID: TS201015C.LRB1

Run in Batch: TS201015C, Run Date: 10/15/2020 09:32, Prep Date: 10/15/2020, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Solids		ND	1	%

Laboratory Control Sample (LCS)

Lab Sample ID: TS201015C.LCS1

Run in Batch: TS201015C, Run Date: 10/15/2020 09:32, Prep Date: 10/15/2020, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Solids		100	90	110

Duplicate (DUP)

Lab Sample ID: TS201015C.DP1, Parent Sample ID: S18303.05

Run in Batch: TS201015C, Run Date: 10/15/2020 09:32, Prep Date: 10/15/2020, Matrix: Soil, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Solids		1	5

Duplicate (DUP)

Lab Sample ID: TS201015C.DP2, Parent Sample ID: S18303.21

Run in Batch: TS201015C, Run Date: 10/15/2020 09:32, Prep Date: 10/15/2020, Matrix: Soil, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Solids		0	5

QC Report - Batch QC Results

Organics - PCBs/Pesticides, Prep Batch ID: PA201014S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101508.sblk-s.01

Run in Batch: A201015, Run Date: 10/15/2020 15:10, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PCB-1016		ND	5.00	ug/kg
PCB-1242		ND	5.00	ug/kg
PCB-1221		ND	5.00	ug/kg
PCB-1232		ND	5.00	ug/kg
PCB-1248		ND	5.00	ug/kg
PCB-1254		ND	5.00	ug/kg
PCB-1260		ND	5.00	ug/kg

Laboratory Control Sample (LCS)

Lab Sample ID: a20101509.slcs-s.01

Run in Batch: A201015, Run Date: 10/15/2020 15:21, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		95.60	50.0	125.0

Matrix Spike (MS)

Lab Sample ID: a20101506.s18183.10m, Parent Sample ID: S18183.10

Run in Batch: A201015, Run Date: 10/15/2020 14:40, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		94.88	50.0	125.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101507.s18183.10n, Parent Sample ID: a20101506.s18183.10m

Run in Batch: A201015, Run Date: 10/15/2020 14:57, Prep Date: 10/14/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260		97.02	50.0	125.0	2.2	20.0

QC Report - Batch QC Results

Organics - PCBs/Pesticides, Prep Batch ID: PA201015S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101616.sblk-s.02

Run in Batch: A201016, Run Date: 10/16/2020 16:03, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PCB-1016		ND	5.00	ug/kg
PCB-1242		ND	5.00	ug/kg
PCB-1221		ND	5.00	ug/kg
PCB-1232		ND	5.00	ug/kg
PCB-1248		ND	5.00	ug/kg
PCB-1254		ND	5.00	ug/kg
PCB-1260		ND	5.00	ug/kg

Laboratory Control Sample (LCS)

Lab Sample ID: a20101617.slcs-s.02

Run in Batch: A201016, Run Date: 10/16/2020 16:14, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		99.20	50.0	125.0

Matrix Spike (MS)

Lab Sample ID: a20101614.s18311.05m, Parent Sample ID: S18311.05

Run in Batch: A201016, Run Date: 10/16/2020 15:41, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		94.12	50.0	125.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101615.s18311.05n, Parent Sample ID: a20101614.s18311.05m

Run in Batch: A201016, Run Date: 10/16/2020 15:52, Prep Date: 10/15/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260		93.68	50.0	125.0	0.5	20.0

QC Report - Batch QC Results

Organics - PCBs/Pesticides, Prep Batch ID: PA201019S1

Surrogates: Yes, QC Types: BLK/LCS/MS/MSD

Blank (BLK)

Lab Sample ID: a20101913.sblk-s.01

Run in Batch: A201019, Run Date: 10/19/2020 18:25, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PCB-1016		ND	5.00	ug/kg
PCB-1242		ND	5.00	ug/kg
PCB-1221		ND	5.00	ug/kg
PCB-1232		ND	5.00	ug/kg
PCB-1248		ND	5.00	ug/kg
PCB-1254		ND	5.00	ug/kg
PCB-1260		ND	5.00	ug/kg

Laboratory Control Sample (LCS)

Lab Sample ID: a20101914.slcs-s.01

Run in Batch: A201019, Run Date: 10/19/2020 18:36, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		88.08	50.0	125.0

Matrix Spike (MS)

Lab Sample ID: a20101911.s18359.05m, Parent Sample ID: S18359.05

Run in Batch: A201019, Run Date: 10/19/2020 18:03, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		86.34	50.0	125.0

Matrix Spike Duplicate (MSD)

Lab Sample ID: a20101912.s18359.05n, Parent Sample ID: a20101911.s18359.05m

Run in Batch: A201019, Run Date: 10/19/2020 18:14, Prep Date: 10/19/2020, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260		79.04	50.0	125.0	8.8	20.0

Merit Laboratories Login Checklist

Lab Set ID:S18303

Client:ARCADIS_NOVI (ARCADIS U.S., Inc.)

Project: 30042872.00102 / RACER Lansing

Submitted: 10/14/2020 15:15 Login User: MMC

Attention: Tiffany Linder

Address: ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, MI 48377

Phone: 248-994-2272

FAX: 248-994-2241

Email: tiffany.linder@arcadis-us.com

Selection	Description	Note
-----------	-------------	------

Sample Receiving

- | | | |
|-----|--|--|
| 01. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples are received at 4C +/- 2C Thermometer # IR 5.7 |
| 02. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Received on ice/ cooling process begun |
| 03. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples shipped |
| 04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples left in 24 hr. drop box |
| 05. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Are there custody seals/tape or is the drop box locked |

Chain of Custody

- | | | |
|-----|--|--|
| 06. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC adequately filled out |
| 07. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | COC signed and relinquished to the lab |
| 08. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sample tag on bottles match COC |
| 09. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Subcontracting needed? Subcontracted to: |

Preservation

- | | | |
|-----|--|---|
| 10. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Do sample have correct chemical preservation |
| 11. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Completed pH checks on preserved samples? (no VOAs) |
| 12. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Did any samples need to be preserved in the lab? |

Bottle Conditions

- | | | |
|-----|--|---|
| 13. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | All bottles intact |
| 14. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Appropriate analytical bottles are used |
| 15. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Merit bottles used |
| 16. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Sufficient sample volume received |
| 17. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Samples require laboratory filtration |
| 18. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Samples submitted within holding time |
| 19. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Do water VOC or TOX bottles contain headspace |

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____



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

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Tiffany Linder
 COMPANY: Arcadis
 ADDRESS: 28550 Cabot Avenue, Suite 500
 CITY: Novi STATE: MI ZIP CODE: 48377
 PHONE NO.: 810-225-1928 FAX NO.: _____ P.O. NO.: _____
 E-MAIL ADDRESS: Tiffany.Linder@arcadis.com QUOTE NO.: _____

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

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME: 30042872.00102/RACER Lansing SAMPLER(S) - PLEASE PRINT/SIGN NAME: Austin Westhuis / AmL Wul
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

PCBs via SW8082A

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other MI
 Special Instructions

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

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER								
	DATE	TIME																		
18303.13	10/13/20	1515	SB-A5.2-NY120-0-0.08	SD	1	1							X							
.14	10/13/20	1525	SB-A5.2-NY120-6-7	SD	1	1							X							
.15	10/14/20	0910	SB-A5.2-NV118-0-0.08	SD	1	1							X							
.16	10/14/20	0915	SB-A5.2-NV118-6-7	SD	1	1							X							
.17	10/14/20	—	Dup-03 (10/14/20)	SD	1	1							X							
.18	10/14/20	0940	SB-A5.2-NU119-0-0.08	SD	1	1							X							
.19	10/14/20	0955	SB-A5.2-NU119-6-7	SD	1	1							X							
.20	10/14/20	1010	SB-A5.2-NV116-0-0.08	SD	1	1							X							
.21	10/14/20	1020	SB-A5.2-NV119-6-7	SD	1	1							X							
.22	10/14/20	1035	SB-A5.2-NK126-0-0.08	SD	1	1							X							
.23	10/14/20	1040	SB-A5.2-NK126-5.5-6.5	SD	1	1							X							
.24	10/14/20	1050	SB-A5.2-NL131-0-0.08	SD	1	1							X							

RELINQUISHED BY: AmL Wul / Arcadis Sampler DATE: 10/14/20 TIME: 1500
 RECEIVED BY: Merit Drop Box DATE: 10/14/20 TIME: 1500

RELINQUISHED BY: Merit Drop Box DATE: 10/14/2020 TIME: 1515
 RECEIVED BY: M. Chilcote DATE: 10/14/2020 TIME: 1515

SEAL NO. SEAL INTACT YES NO INITIALS _____ NOTES: TEMP. ON ARRIVAL 5.7

Appendix C

Exposure Barrier Annual Inspection Form

**MAINTENANCE OF EXPOSURE BARRIERS
INSPECTION LOG SHEET
RACER Trust Plant 2 TSCA Area 5-2 – Lansing, Michigan**

DATE: _____

TIME: _____

Inspection		
Is the Surface Cover Consistent with Existing Conditions?		
Exposure Barrier	Condition Satisfactory (X)	Condition Unsatisfactory (X)
Area 5-2 TSCA – Low Occupancy Area with Cap – Need to maintain at least 6 inches of concrete or 10 inches of soil depending on existing cover materials	<input type="checkbox"/>	<input type="checkbox"/>

Comments*:

Print Name (Inspector): _____

Inspector's Signature: _____

***Photos attached**

MAINTENANCE OF EXPOSURE BARRIERS
INSPECTION LOG SHEET
 RACER Trust Plant 2 TSCA Area 5-2 – Lansing, Michigan

Exposure Barrier	Groundcover Condition (Describe weathering, erosion, settling, water ponding, vegetation growth, etc.)	Overall Condition (Good / Fair / Poor)	Photo Notes (Attach labelled photographs)
Area 5-2 TSCA Exposure Barrier			1. 2. 3. 4.

Based on the above observations, are any corrective actions (i.e., repairs) required? _____

DRAFT

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