

**Revitalizing Auto Communities
Environmental Response Trust**

**Excavation and Vegetated Soil
Cap Activities Summary Report**

Peninsula Property
79 West Center Street
Saginaw, Michigan 48602

October 13, 2015



A handwritten signature in black ink, appearing to read "Kristen Templin".

Kristen Templin
Environmental Scientist

A handwritten signature in black ink, appearing to read "Scott Clearwater".

Scott Clearwater
Certified Project Manager

A handwritten signature in black ink, appearing to read "Phil Batten".

Phil Batten
Principal Designer

**Excavation and Vegetated Soil
Cap Activities Summary Report**

Peninsula Property
79 West Center Street
Saginaw, Michigan 48602

Prepared for:
Revitalizing Auto Communities
Environmental Response Trust

Prepared by:
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Our Ref.:
B0086991.2015

Date:
October 13, 2015

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Acronyms and Abbreviations

DC	Direct Contact
GM	General Motors
HASP	Health and Safety Plan
HHPA	Human Health Pathway Analysis
JPA	Joint Permit Application
JSS	Job Site Services
MDEQ	Michigan Department of Environmental Quality
mg/kg	milligrams per kilogram
PCB	Polychlorinated Biphenyl
PSIC	Particulate Soil Inhalation Criteria
PVC	Polyvinyl Chloride
RACER	Revitalizing Auto Communities Environmental Response
RBSL	Risk-Based Screening Level
SMI	Saginaw Malleable Iron
SVOC	Semivolatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

1. Introduction

ARCADIS of Michigan LLC (ARCADIS) has prepared this report on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the Peninsula Property located at 79 West Center Street in Saginaw, Michigan (Site; see **Figure 1**).

On February 15, 2013, ARCADIS submitted the Response Activity Plan for the Human Health Pathway Analysis for Unsaturated Soil (HHPA) to the Michigan Department of Environmental Quality (MDEQ). Based on correspondence and comments from the MDEQ, ARCADIS revised the HHPA, and the Response to MDEQ Comments on the Human Health Pathway Analysis for Unsaturated Soil (Response HHPA) was submitted to the MDEQ on November 5, 2013. The Response HHPA recommended either focused soil removal or covering selected areas based on concentrations of lead identified in surface soils at the Site. The Response HHPA suggested the use of soil covers; however, the Site is located within a 100-year floodplain and must maintain a neutral impact on flood capacity. Consequently, focused soil removal from two areas of the Site was completed. The removed soils were backfilled to establish the cap and maintain a neutral impact on flood capacity. The Response HHPA was approved by the MDEQ on December 16, 2013. A Joint Permit Application (JPA) to perform work within a flood plain through the MDEQ and Army Corps of Engineers was obtained on February 3, 2015, and a Floodplain Permit was obtained from the City of Saginaw on April 7, 2015. On May 18 through May 22, 2015, ARCADIS completed the excavation and vegetative cap activities, the results of which are summarized below.

1.1 Site Description

The approximately 3.4-acre site is located in Saginaw, Michigan. The land is currently vacant with no buildings, is fenced and covered with grass, and there are no roads running through the property (see **Figure 1**). The Site is zoned industrial and surrounded by industrial properties. Future use of the Site will continue to be non-residential. Adjacent properties include the following:

- North: Former Delphi Automotive Systems Plant 2 property
- South and West: Former General Motors (GM) Green Point Landfill property (owned by RACER)
- East: Former GM Saginaw Malleable Iron (SMI) Plant property (owned by RACER)

1.2 Investigation History

The soil sampling program included the advancement of 66 soil borings from January 18 through January 22, 2010 at the Peninsula Property. The locations of soil borings were established using a 50-foot by 50-foot grid (see **Figure 2**). At each of the locations, a composite soil sample was typically collected from the 0 to 2 foot (below grade) depth interval and the 2-foot interval approximately 6 inches above the depth of observed saturated soil. These samples were subjected to laboratory analyses for inorganic and organic constituents, respectively.

Lead was detected in five of the samples (located in three different areas) at concentrations higher than the 900 milligrams per kilogram (mg/kg) non-residential Direct Contact (DC) Criteria presented in Part 201 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451 of 1994, as amended. Data for these five locations (SB10-104, SB10-113, SB10-114, SB10-119, and SB10-153) are presented on **Figure 2**.

Based on the 2010 lead results, the MDEQ requested collection of additional soil samples in the three areas of the Site where the sample concentrations exceeded the non-residential DC criteria. MDEQ requested that the samples be analyzed to establish the concentrations of total lead, fine-fraction lead, and coarse-fraction lead. These data were requested to more thoroughly evaluate lead in surface soil with respect to the direct contact and particulate inhalation exposure pathways. This additional lead sampling (SB10-104-2013, SB10-114-2013, and SB10-153-2013) was completed in August 2013.

The three additional samples were analyzed for lead in 2013. The fine-fraction lead concentrations ranged from 64.2 mg/kg to 9,050 mg/kg; the coarse-fraction lead concentrations ranged from 22.0 mg/kg to 28,300 mg/kg; and the calculated total lead concentrations ranged from 32.6 mg/kg to 17,700 mg/kg. The weight percent fine-grained soils ranged from 25 percent to 54.8 percent.

The total lead concentrations in two of the three samples analyzed for fine-fraction lead (SB10-114-2013 [795 mg/kg] and SB10-153-2013 [32.6 mg/kg]), were lower than the non-residential DC criteria for lead, indicating that the previously identified elevated concentrations associated with soil borings SB10-114 (10,100 mg/kg) and SB10-153 (4,180 mg/kg) are likely limited to small localized areas, and the elevated concentrations may also be associated with soils below the surface (greater than 6 inches deep). The total lead concentration (17,700 mg/kg) in the third sample (SB10-

104-2013) analyzed for fine-fraction lead confirmed the presence of lead at a concentration higher than the non-residential DC criteria in the surface soil at SB10-104 (2010).

The fine-fraction lead concentrations in all three samples analyzed were lower than the residential and non-residential particulate soil inhalation criteria (PSIC). The total lead, fine-fraction lead, and coarse-fraction lead in sample SB10-153-2013 did not exceed the non-residential DC criteria of 900 mg/kg. The total lead and coarse-fraction lead in sample SB10-114-2013 did not exceed the non-residential DC criteria, but the fine-fraction lead (1,360 mg/kg) did exceed the non-residential DC criteria. Concentrations of total lead (17,700 mg/kg), fine-fraction lead (9,050 mg/kg), and coarse-fraction lead (28,300 mg/kg) in sample SB10-104-2013 were higher than the nonresidential DC criteria.

1.3 Remediation Objectives

The objective of the 2015 soil removal activities was to remove the top 6 inches of soil impacted with lead concentrations exceeding non-residential DC criterion and install a vegetative cap. Two areas of concern, or hot spots, were identified based on the analytical results detailed above.

- Hot spot #1 (Southwest Area): Samples SB10-113 (2010), SB10-114 (2010), and SB10-119 (2010)
- Hot spot #2 (Northeast Area): Samples SB10-104 (2010) and SB10-104-2013 (2013)

The Response HHPA recommended focused soil covers to protect against the direct contact exceedances. However, the Site is located within a 100-year floodplain and must maintain a neutral impact on flood capacity. Consequently, focused soil removal from the two hot spots was conducted. Soils were removed so that, upon vegetative cap installation, the pre-excavation ground elevation and neutral impact on flood capacity could be maintained.

1.4 Scope of Work

The scope of work completed at the Site included the excavation, transportation, and off-site disposal of impacted soils, as well as the installation of a soil cap, and surface seeding and restoration.

2. Excavation and Vegetated Soil Cap Activities

The remedial activities were completed between May 18 and May 22, 2015. A summary of these activities is presented in the following sections.

2.1 Pre-Excavation Activities

A Joint Permit Application (JPA) through the MDEQ and Army Corps of Engineers was obtained on February 3, 2015, and a Floodplain Permit was obtained from the City of Saginaw on April 7, 2015 to work within the flood plain. Additionally, an amendment was obtained to allow for installation of gravel access roads as part of the JPA if ground conditions required. Copies are provided in **Appendix A**.

On March 11, 2015, ARCADIS mobilized to the Site to stake out the excavation areas with a Geo7X global positioning system unit based on the lead concentration figure (**Figure 2**). Wooden stakes were placed at the corners of the excavation areas approximately halfway between sample locations that yielded lead concentrations higher than non-residential DC criteria and the next adjacent sample location that yielded lead concentrations lower than non-residential DC criteria. The excavation areas are identified on **Figure 1**.

Additionally, ARCADIS collected a composite soil sample for waste characterization purposes to meet landfill disposal waste profiling requirements for data less than 1 year old; the sampling is further detailed in Section 2.2 below.

2.2 Waste Characterization

On March 11, ARCADIS collected a waste characterization composite sample from the southwest excavation area. The soil sample was submitted to Test America Laboratories in North Canton, Ohio for analysis of Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260B, TCLP semi-volatile organic compounds (SVOCs) via USEPA Method 8270C, TCLP polychlorinated biphenyls (PCBs) via USEPA Method 8082A, TCLP metals via USEPA Method 6010B, and TCLP mercury via USEPA Method 7470A. Analytical results are provided in **Appendix B**. A waste profile for the impacted soil, prepared based on analytical data, characterized it as non-hazardous material.

2.3 Mobilization and Site Preparation

ARCADIS and Job Site Services (JSS) mobilized to the Site on May 18, 2015 to begin preparing for the impacted soil removal and capping. A kickoff meeting and daily tailgate health and safety meetings were held prior to any work taking place.

In order to gain access to the Site for the heavy equipment and trucks, a section of the chain link fence surrounding the Site closest to the access road was cut and moved. Silt fence was set up around the perimeter of the planned excavations to prevent soil runoff and control dust. Additionally, heavy equipment weight dispersion mats were placed in the planned vehicle path between the access road and the two excavation/cap areas in order to prevent ruts or the disturbance of the ground surface in the areas where trucks and equipment would be driving. A permit modification was completed to allow for access roads to be built; however, due to Site conditions the mats were used as an alternative to gravel because of soft ground conditions.

2.4 Excavation and Well Abandonment

Excavation and well abandonment activities commenced on May 18, 2015. Excavation activities began at the Southwest Area and continued to the Northeast Area on May 19, 2015.

Six inches of soil were removed from each excavation area and hauled to Peoples Landfill, Inc. in Birch Run, MI for disposal. The Southwest and Northeast excavation areas were field measured with a measuring wheel to be approximately 9,424 square feet and 2,625 square feet, respectively. Approximately 330 tons of soil were excavated and transported for disposal from the two excavation areas. Waste manifests for the soils removed are included in **Appendix C**.

Surveys were performed to confirm a minimum excavation depth of 6-inches in each excavation area was achieved. JSS surveyed at the following project intervals: 1) prior to performing intrusive work in order to establish a baseline grid (original elevation); 2) after excavation (cut elevation) in order to confirm minimum 6-inch excavation; and 3) after backfill (finish elevation) in order to ensure that fill/topsoil was restored to original elevations in each area. Survey measurement locations are shown on **Figure 3** and measurement data are summarized in **Table 1**.

Three wells were abandoned during excavation activities from the Southwest Area (MW-97-104WT, MW-97-104S1, and historical piezometer constructed of Schedule

(Sch) 40 polyvinyl chloride [PVC]). No wells were present in the Northeast Area. All wells abandoned were constructed with 2-inch Sch 40 PVC well casing. Monitoring wells MW-97-104WT and MW-97-104S1 were enclosed with a 4-inch square metal stick-up encasing over 2-inch inner PVC. Well construction materials were removed and annular void spaces were filled with Enviroplug bentonite chips to 1 foot below ground surface. Remaining annular space was filled with topsoil during fill elevation restoration as described in Section 2.5. Well abandonment logs are provided in **Appendix D**.

During excavation activities, if excavated soils were left on site overnight, they were stockpiled and covered with plastic sheeting to prevent erosion. Silt fencing was constructed around the perimeter of the excavations to prevent the migration of soil particles during precipitation events and for control dust. Site activities are documented in the photo log included as **Appendix E**.

Air was monitored in the breathing zone during excavation activities per the ARCADIS health and safety plan (HASP) requirements. A four-gas meter (Q-Rae) and a dust monitor downwind of excavation were used for air monitoring. There were no dust or air quality issues encountered during the work.

2.5 Vegetated Soil Cap Installation

Prior to vegetated soil cap installation, non-woven geotextile fabric was placed atop exposed soils within the areas of excavation to provide a demarcation layer between existing and imported soils. The geotextile was overlapped by 1 foot at joining sections and pinned down to keep in place during placement of cover soils.

The vegetated soil cap was installed between May 20 and May 21, 2015. A total of 312 cubic yards of topsoil was delivered to the Site to backfill the excavation areas to their pre-excavation elevations and to establish the vegetative cap. Load tickets are included in **Appendix F**. Backfilled soils were placed and graded (with only moderate compaction as a result of grading operations) with tracked machinery prior to seeding.

Imported soils were deemed virgin material by DDH, Inc., producer of the fill. A letter of quality of the fill topsoil material was provided to ARCADIS and is included in **Appendix G**. Imported topsoil were also screened by ARCADIS with a four-gas meter (Q-Rae) prior to use to ensure that no volatile contaminants were present.



Excavation and Vegetated Soil Cap Activities Summary

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Imported soils were graded, and the final elevations surveyed to confirm that the soil cap was no greater than the initial surveyed ground elevations via JSS surveying, as indicated in **Table 1**. A cross section of the soil cap is depicted on **Figure 4A** and **4B**. The soil cap areas were then seeded with Michigan native grass seed (Barenbrug, 100lb per acre) to complete restoration of the excavation areas. The Site was cleaned up, and the chain link fence repaired to pre-existing condition. Silt fence was left in place to minimize the potential for migration of newly placed topsoil particles from the placement areas due to precipitation runoff and will remain in place until such time that the grass vegetation is sufficiently established and adequate to minimize soil erosion within the restored areas.



Excavation and Vegetated Soil Cap Activities Summary

Peninsula Property
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Saginaw, Michigan 48602

3. Post-Corrective Action Activities

ARCADIS and JSS will monitor the soil/vegetative cap areas in the Fall of 2015 and Spring of 2016 to verify that the grass vegetation is sufficiently established. Follow-up seeding will be performed, as necessary.. The silt fence will be removed from the cap perimeters once the grass vegetation is deemed sufficient.



**Excavation and
Vegetated Soil Cap
Activities Summary**

Peninsula Property
79 West Center Street
Saginaw, Michigan 48602

4. References

ARCADIS. 2013. Plant 2 Landfill Human Health Pathway Analysis for Unsaturated Soil. February 15.

ARCADIS. 2013. Plant 2 Landfill Response to MDEQ Comments on the Human Health Pathway Analysis for Unsaturated Soil. November 5.

Tables

Table 1
Survey Elevation Summary

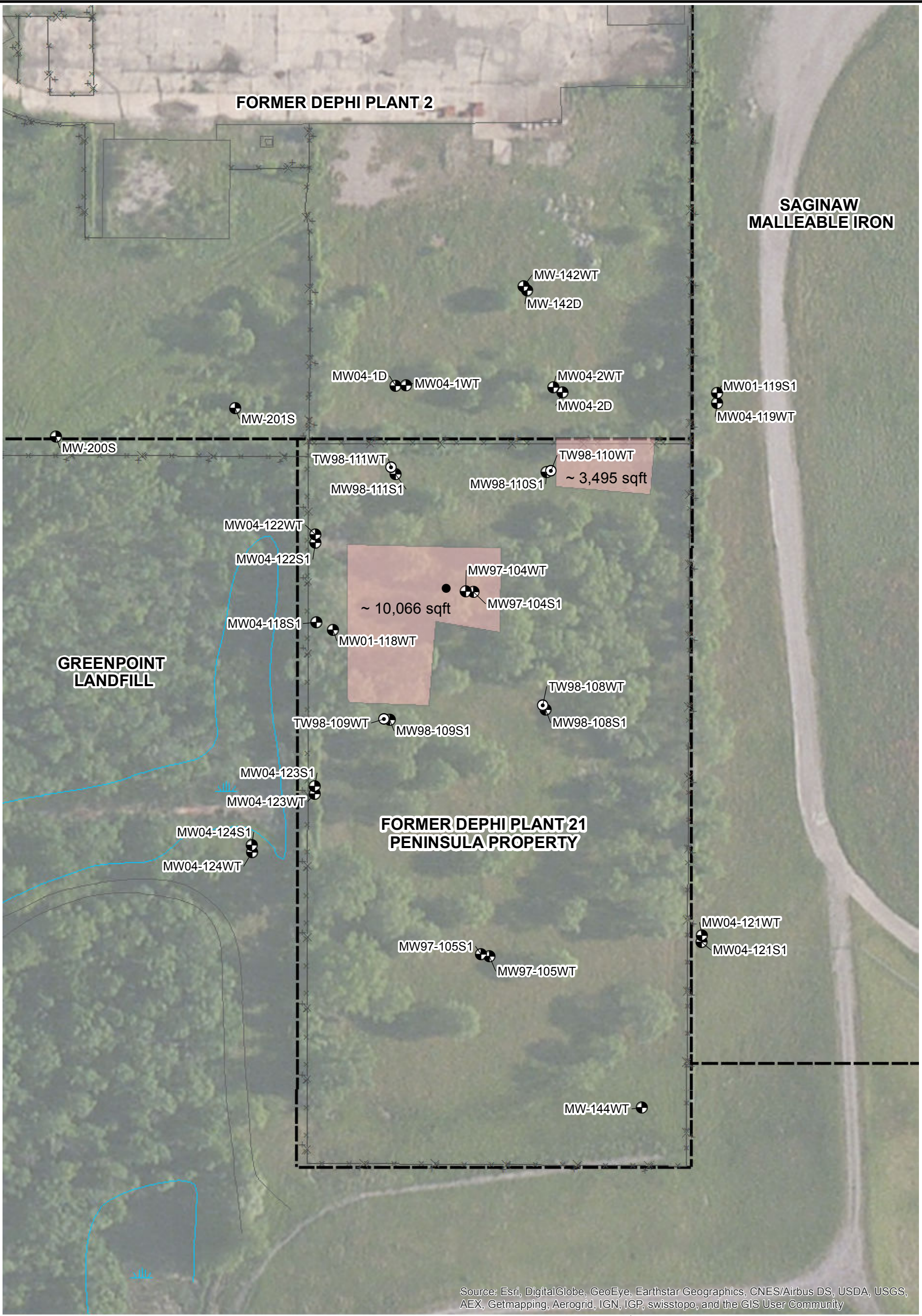
Excavation and Vegetated Soil Cap Activities Summary Report
RACER Saginaw
Peninsula Property

Location	Starting Elevation	Excavated Elevation	Final Elevation	Vegetated Soil Cap Thickness (feet)	Neutral Elevation Verification (Starting minus Final Elevation)
<i>Southwest Area</i>					
1	3.67	4.22	3.65	0.57	0.02
2	3.69	4.3	3.66	0.64	0.03
3	3.62	4.12	3.6	0.52	0.02
4	3.71	4.29	3.68	0.61	0.03
5	3.45	3.97	3.44	0.53	0.01
6	3.36	3.84	3.32	0.52	0.04
7	3.88	4.35	3.85	0.5	0.03
8	3.91	4.42	3.9	0.52	0.01
9	3.84	4.45	3.78	0.67	0.06
10	3.6	4.18	3.58	0.6	0.02
11	3.41	4.16	3.37	0.79	0.04
12	3.34	3.94	3.32	0.62	0.02
13	4.01	4.57	4	0.57	0.01
14	4	4.58	3.98	0.6	0.02
15	3.9	4.38	3.86	0.52	0.04
16	3.52	4.04	3.49	0.55	0.03
17	3.27	3.71	3.21	0.5	0.06
<i>North Area</i>					
1	3.46	3.96	3.45	0.51	0.01
2	3.87	4.48	3.83	0.65	0.04
3	4.32	4.86	4.3	0.56	0.02
4	3.38	3.96	3.35	0.61	0.03
5	3.38	3.94	3.37	0.57	0.01
6	3.88	4.39	3.85	0.54	0.03
7	3.08	3.64	3	0.64	0.08
8	3.34	3.92	3.3	0.62	0.04
9	3.86	4.31	3.84	0.47	0.02

Note:

All elevations are compared to mean sea level

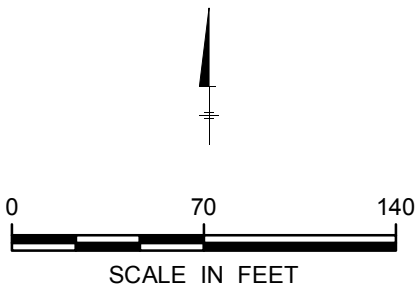
Figures



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

LEGEND:

- MW
- TW
- Composite Soil Sample
- Property Boundary
- Site Features
- Fence
- Wetland
- Final Surveyed Excavation Area



REALM, INC. PENINSULA PROPERTY
74 WEST CENTER STREET, SAGINAW, MI

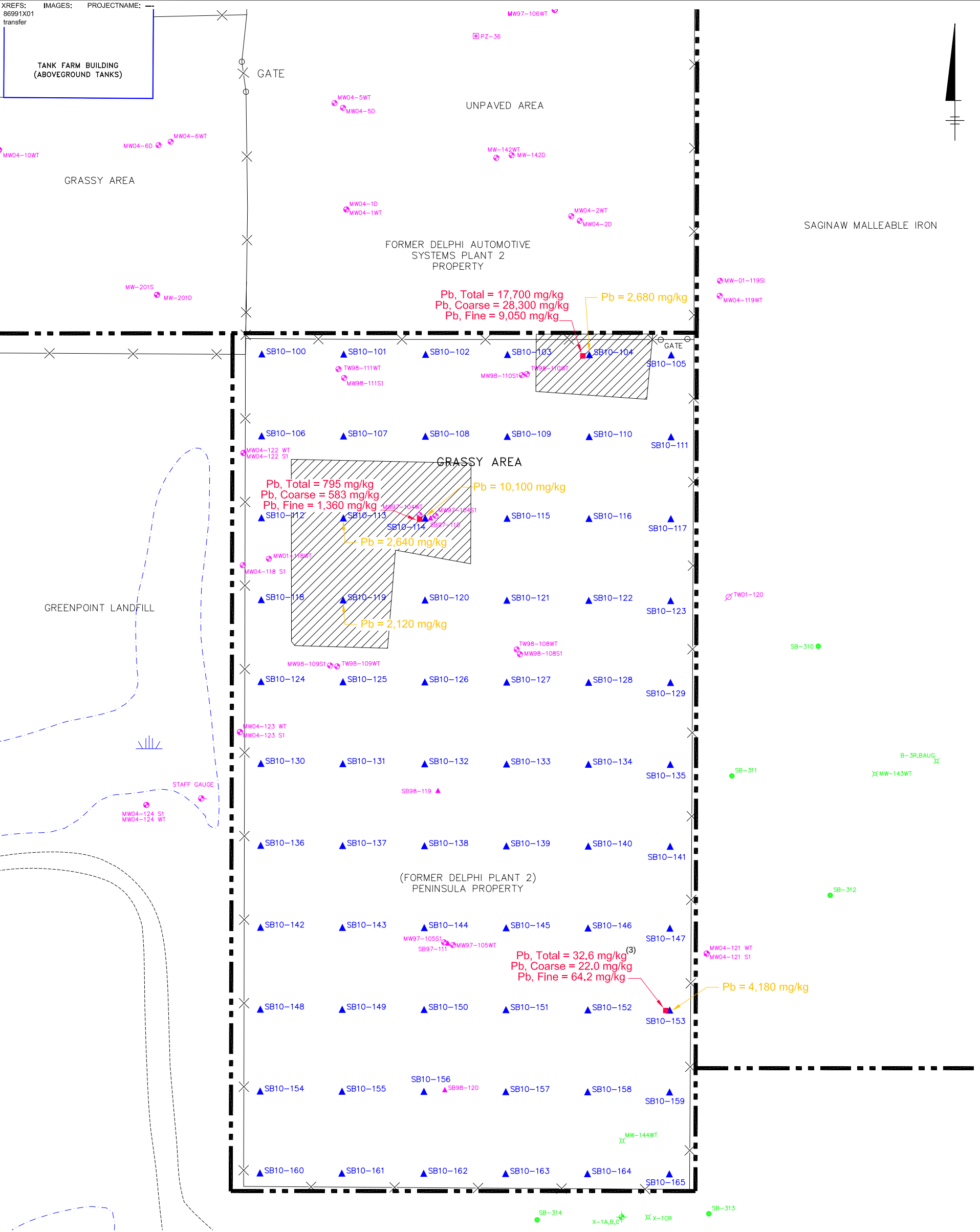
CAP COMPLETION AREA MAP



FIGURE
1

XREFS: 86991X01 transfer
IMAGES:
PROJECTNAME:

TANK FARM BUILDING
(ABOVEGROUND TANKS)



- LEGEND:**
- PROPERTY BOUNDARY
 - FENCE LINE
 - SMI PLANT PROPERTY RI AND OTHER COMPLETIONS:**
 - B-2 WATER TABLE MONITORING WELL
 - X-1A,B,C MONITORING WELL CLUSTER
 - SB-312 SOIL BORING
 - SB10-100 SOIL BORING LOCATION (WEEK OF JANUARY 18, 2010)
 - DELPHI PLANT 2 AND PENINSULA PROPERTY RI AND OTHER COMPLETIONS:**
 - MW-142D MONITORING WELL
 - TW98-108WT TEMPORARY WELL
 - SB98-120 SOIL BORING
 - PZ-36 PIEZOMETER
 - TW01-120 GRAB GROUNDWATER SAMPLING LOCATION
 - SOIL BORING LOCATION - AUGUST 15, 2013
 - EXCAVATION AND VEGETATIVE CAP
 - SMI - SAGINAW MALLEABLE IRON
 - RI - REMEDIAL INVESTIGATION
 - Mg/kg - MILLIGRAMS PER KILOGRAM
 - Pb - LEAD

NOTES:

- BASE MAP DEVELOPED FROM THE FOLLOWING:
PHOTOGRAMMETRIC BASE MAP PREPARED BY LOCKWOOD MAPPING, INC. OF ROCHESTER, NEW YORK., AERIAL PHOTOGRAPHY CONDUCTED ON 11/11/94; AND
BASE MAP SUPPLIED BY AIR-LAND SURVEYS, INC., AERIAL PHOTOGRAPHY WAS CONDUCTED DURING 11/90.
- SAMPLE LOCATIONS ARE APPROXIMATE.
- 2013 sample results were below MDEQ nonresidential direct contact for total lead, fine fraction lead, and coarse fraction lead. Per the *Response to MDEQ Comments on the Human Health Pathway Analysis for Unsaturated Soil (HHPA)* additional action is not required.

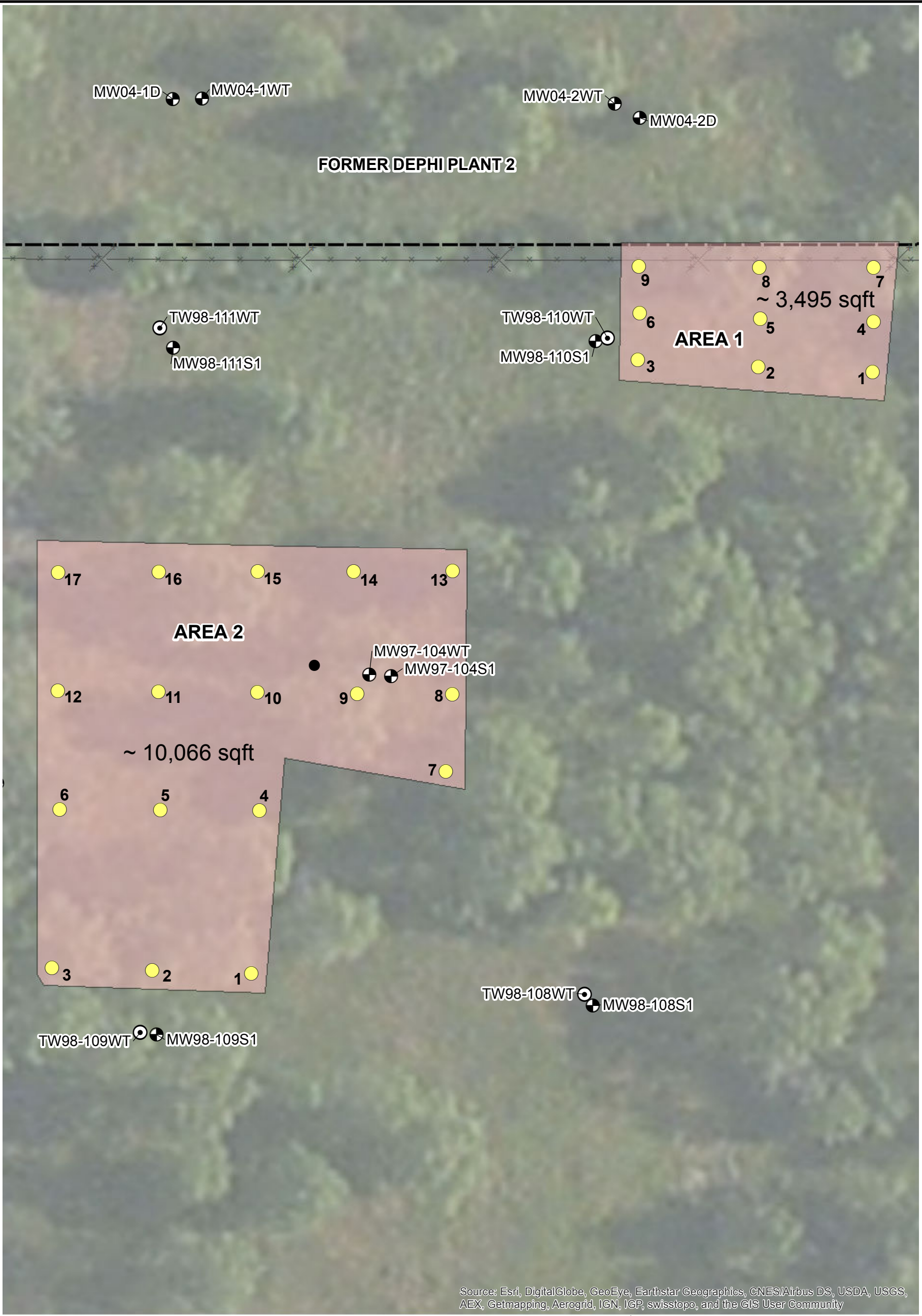
REALM, INC. PENINSULA PROPERTY
74 WEST CENTER STREET
SAGINAW, MI

**SAMPLE LOCATIONS AND LEAD DATA
EXCEEDING NON-RESIDENTIAL DIRECT
CONTACT CRITERIA**



FIGURE

2

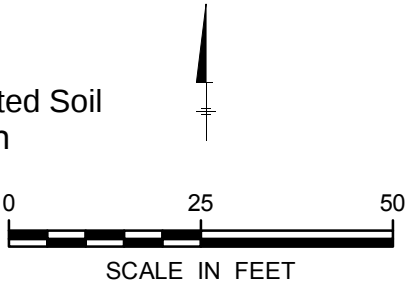


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

LEGEND:

- | | |
|-----------------------|---|
| MW | Property Boundary |
| TW | Fence |
| Composite Soil Sample | Excavation and Vegetated Soil Cap (*Neutral Elevation Maintained) |
| Elevation Points | |

NOTES:
1. Refer to Table 1-Survey Elevation Summary for corresponding elevations.
2. Cap is the final surveyed excavation area.



REALM, INC. PENINSULA PROPERTY
74 WEST CENTER STREET, SAGINAW, MI

EXCAVATION
ELEVATION POINTS



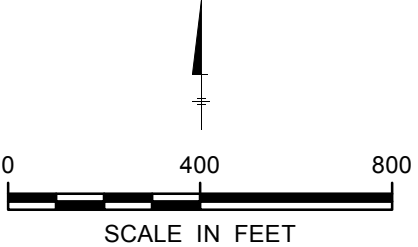
FIGURE
3

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: shell LD: PIC: PM: TM:
PROJECT: PATH ZGISPROJECTS: ENVACER SaginawMXD\Fcda VegetativeCovers.mxd DATE: 8/20/2015 2:56:01 PM



LEGEND:

- Peninsula Property
- - - Property Boundary
- x - x - x Fence
- Site Features
- Excavation and Vegetative Cap (*Neutral Elevation Maintained)
- Wetlands as Identified on NWI and MIRIS
- Saginaw River



RACER TRUST SAGINAW PENINSULA PROPERTY
74 WEST CENTER STREET, SAGINAW, MI

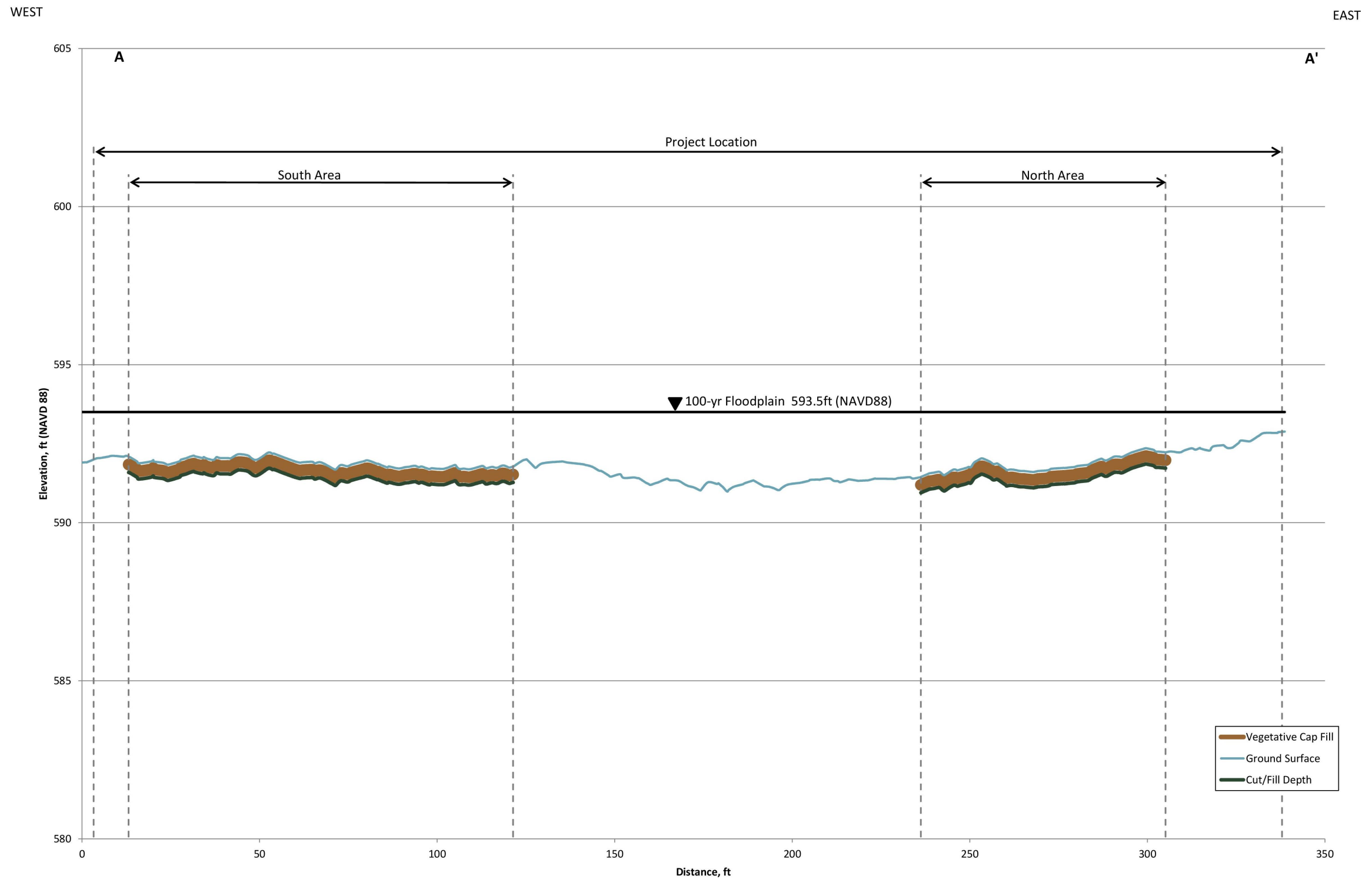
**SOIL AND VEGETATIVE
COVER SITE PLAN**



FIGURE
4A

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: shell LD: PIC: PM: TM:
PROJECT: PATH ZGISPROJECTS\ ENVIRAGER SaginawMXD\Fig3C CutFill xSection.mxd DATE: 7/13/2015 3:47:03 PM



NOTE:

1. Demarcation put in place prior to installation of the vegetative cap.
2. Elevations during excavation and vegetative cap installation were verified by JSS based on the relative elevation of 3.50 feet.

RACER TRUST SAGINAW PENINSULA PROPERTY
74 WEST CENTER STREET, SAGINAW, MI

**CROSS-SECTION
CUT/FILL LOCATION MAP**



FIGURE
4B



Appendix A

Permits



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
SAGINAW BAY DISTRICT OFFICE



DAN WYANT
DIRECTOR

April 16, 2015

Ms. Leah Balogh, P.E.
ARCADIS U.S., Inc.
101 South Washington Square
Suite 400
Lansing, MI 48933

Dear Ms. Balogh:

SUBJECT: Michigan Department of Environmental Quality (MDEQ)
Permit Number 14-73-0045-P
T12N, R4E, Section 35, City of Saginaw, Saginaw County

We received your letter dated February 24, 2015, requesting a minor revision for work authorized by MDEQ Permit Number 14-73-0045-P.

This letter authorizes revision of your MDEQ Permit Number 14-73-0045-P to place an additional 62 cubic yards of temporary fill to construct a 220 foot long, 15-foot wide, and 6 inch thick access road as shown in the attached plans.

You are reminded that all conditions as set forth in the original permit remain in full force. This letter must be attached to your permit and kept at the site of the work, available for inspection at all times during the duration of the project or until the date of expiration. This revision does not obviate the need for other federal, state, and/or local permits as may be required by law.

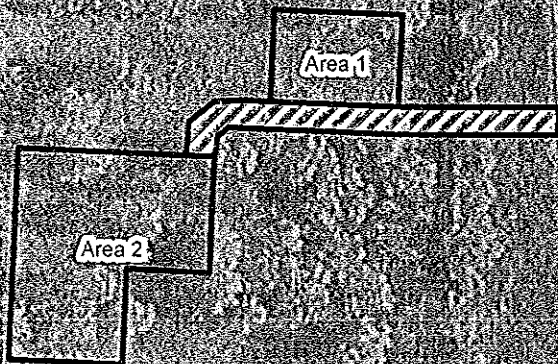
If you have any questions regarding this letter, please contact me.

Sincerely,

Joy I. Brooks, P.E.
District Floodplain Engineer
Water Resources Division
989-894-6226

cc: Saginaw CEA
City of Saginaw
City of Saginaw Building Official
Mr. Scott Clearwater, ARCADIS of Michigan, LLC
Mr. Dave Favero, RACER Properties, LLC

14-73-0045-P
April 16, 2015
Permit Revision
p. 2 of 2



Legend

-  Vegetative Cover
-  Temporary Access Road
-  Wetlands as Identified on NWI and MIRIS



PFDPL15-004

Issued: 04/07/2015
Expires:

City of Saginaw

ENGINEERING DEPARTMENT

1315 S Washington Ave
Saginaw, MI 48601
(989) 759-1410

Flood Plain

04/07/2015

LOCATION	OWNER	CONTRACTOR
79 W CENTER ST 19 2231 00100 M-2	RACER PROPERTIES LLC 500 WOODWARD AVE SUITE 1510 DETROIT MI 48226 Phone: Fax:	ARCADIS U.S. INC 28550 CABOT DR STE 500 NOVI MI 48377 Phone: 2489942320 Fax:

Special Notes and Comments

PERMISSION IS HEREBY GRANTED TO WORK WITHIN THE FLOOD PLAIN - ONLY AFTER ALL STATE/FEDERAL PERMITS HAVE BEEN APPROVED

Permit Item	Work Type	Fee Basis	Item Total
		Fee Total:	\$0.00
		Amount Paid:	\$0.00
		Balance Due:	\$0.00

FLOOD PLAIN PERMIT

ALL SECTIONS OF THE CITY OF SAGINAW - FLOODPLAIN DISTRICT MUST BE FOLLOWED (153.540 TO 153.556)

HOLD HARMLESS AND INDEMNITY

In consideration of the issuance of this permit, undersigned agrees to hold harmless and indemnify the City of Saginaw from all claims, damages, expenses and suits of every kind which may arise by reason of the issuance of this permit and operations performed and maintained there under.

Said applicant agrees to maintain and keep all construction property safeguarded, barricaded and lighted, and further that said applicant be solely responsible of all damages, accidents or loss of life, limb or property, and shall save the City of Saginaw harmless from any and all causes whatsoever and to the fullest extent.

Date: 4/9/2-15

Signature: David Favero

David Favero,
Deputy Cleanup Manager for Michigan for RACER

Printed Name:



Monday, February 09, 2015

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[New Applications](#)

File Number:

14-73-0045-P

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Saginaw Bay District Office

401 Ketchum Street,
Suite B

Bay City , Michigan
48708-5430
989-894-6200

CIWPIS on Line

Coastal and Inland Waters Permit Information System

File No: 14-73-0045-P

Status: Permit Issued

Name: Properties LLC RACER

County: Saginaw

Address:

Twn/Rng/Sec: 12N/04E/35

500 Woodward Ave, Suite
1510 Detroit, MI 48226

Government: City of Saginaw

Subdivision:

Lot:

Waterbody: Saginaw River

ProjectName: RACER Plant 2 Soil 7
Vegetative Cov

Tax ID: 19-2231-00100

Activity: Dredge & Fill

MITAPS:

Activity:

Activity:

Parts: 301 325 303 31 315 323 353 Sec404

1

Type: Minor Project

Field: Joy I. Brooks

Renewal:

Entry: Expedite

Date Received: 11/13/2014

Date Final Action: 2/3/2015

Date Sent to Field:

Date Permit Expires: 2/3/2020

Date Extended:

Date Revised:

Date Site Inspection:

Date Public Notice:

Date Public Hearing:

Date CR Mailed: 11/20/2014



Appendix B

Waste Profiles/Approvals

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-48163-1

Client Project/Site: RACER Saginaw - B0086991.2015

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Kristen Templin

Denise Pohl

Authorized for release by:

3/20/2015 4:05:28 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Job ID: 240-48163-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: RACER Saginaw - B0086991.2015

Report Number: 240-48163-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 3/13/2015 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample WC_PLANT 2 (031115) (240-48163-1) was analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 03/16/2015 and analyzed on 03/17/2015.

Method(s) 8260B: The laboratory control sample (LCS) for batch 172487 recovered outside control limits for 2-butanone (MEK). This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample WC_PLANT 2 (031115) (240-48163-1) was analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 03/16/2015, prepared on 03/17/2015 and analyzed on 03/19/2015.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Job ID: 240-48163-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

no corrective action is required.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample WC_PLANT 2 (031115) (240-48163-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with SW-846 Method 8082A. The samples were leached on 03/16/2015, prepared on 03/17/2015 and analyzed on 03/18/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP METALS (ICP)

Sample WC_PLANT 2 (031115) (240-48163-1) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 03/16/2015, prepared on 03/17/2015 and analyzed on 03/18/2015.

Arsenic, Barium, Chromium and Selenium were detected in method blank LB 240-172328/1-B at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TCLP MERCURY

Sample WC_PLANT 2 (031115) (240-48163-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 03/16/2015, prepared on 03/17/2015 and analyzed on 03/18/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48163-1	WC_PLANT 2 (031115)	Solid	03/11/15 15:45	03/13/15 09:45

Detection Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

Client Sample ID: WC_PLANT 2 (031115)

Lab Sample ID: 240-48163-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0077	J B	0.50	0.0029	mg/L	1		6010B	TCLP
Barium	0.64	J B	10	0.0010	mg/L	1		6010B	TCLP
Cadmium	0.00061	J	0.10	0.00014	mg/L	1		6010B	TCLP
Chromium	0.0032	J B	0.50	0.00055	mg/L	1		6010B	TCLP
Lead	0.0085	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0059	J B	0.25	0.0040	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Client Sample ID: WC_PLANT 2 (031115)

Lab Sample ID: 240-48163-1

Date Collected: 03/11/15 15:45

Matrix: Solid

Date Received: 03/13/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.0095	mg/L			03/17/15 20:23	1
1,2-Dichloroethane	0.025	U	0.025	0.011	mg/L			03/17/15 20:23	1
2-Butanone (MEK)	0.25	U *	0.25	0.029	mg/L			03/17/15 20:23	1
Benzene	0.025	U	0.025	0.0065	mg/L			03/17/15 20:23	1
Carbon tetrachloride	0.025	U	0.025	0.0065	mg/L			03/17/15 20:23	1
Chlorobenzene	0.025	U	0.025	0.0075	mg/L			03/17/15 20:23	1
Chloroform	0.025	U	0.025	0.0080	mg/L			03/17/15 20:23	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			03/17/15 20:23	1
Trichloroethene	0.025	U	0.025	0.0085	mg/L			03/17/15 20:23	1
Vinyl chloride	0.025	U	0.025	0.011	mg/L			03/17/15 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 121		03/17/15 20:23	1
4-Bromofluorobenzene (Surr)	85		70 - 124		03/17/15 20:23	1
Toluene-d8 (Surr)	92		80 - 120		03/17/15 20:23	1
Dibromofluoromethane (Surr)	87		80 - 128		03/17/15 20:23	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00034	mg/L		03/17/15 13:54	03/19/15 12:19	1
2,4,5-Trichlorophenol	0.0040	U	0.0040	0.00030	mg/L		03/17/15 13:54	03/19/15 12:19	1
2,4,6-Trichlorophenol	0.0040	U	0.0040	0.00024	mg/L		03/17/15 13:54	03/19/15 12:19	1
2,4-Dinitrotoluene	0.0040	U	0.0040	0.00025	mg/L		03/17/15 13:54	03/19/15 12:19	1
Hexachlorobenzene	0.00080	U	0.00080	0.000085	mg/L		03/17/15 13:54	03/19/15 12:19	1
Hexachlorobutadiene	0.0040	U	0.0040	0.00027	mg/L		03/17/15 13:54	03/19/15 12:19	1
Hexachloroethane	0.0040	U	0.0040	0.00019	mg/L		03/17/15 13:54	03/19/15 12:19	1
3 & 4 Methylphenol	0.0040	U	0.0040	0.00080	mg/L		03/17/15 13:54	03/19/15 12:19	1
2-Methylphenol	0.0040	U	0.0040	0.00017	mg/L		03/17/15 13:54	03/19/15 12:19	1
Nitrobenzene	0.0040	U	0.0040	0.000040	mg/L		03/17/15 13:54	03/19/15 12:19	1
Pentachlorophenol	0.0040	U	0.0040	0.00027	mg/L		03/17/15 13:54	03/19/15 12:19	1
Pyridine	0.0040	U	0.0040	0.00035	mg/L		03/17/15 13:54	03/19/15 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		30 - 110	03/17/15 13:54	03/19/15 12:19	1
2-Fluorophenol (Surr)	59		20 - 110	03/17/15 13:54	03/19/15 12:19	1
2,4,6-Tribromophenol (Surr)	103		23 - 110	03/17/15 13:54	03/19/15 12:19	1
Nitrobenzene-d5 (Surr)	72		28 - 110	03/17/15 13:54	03/19/15 12:19	1
Phenol-d5 (Surr)	51		21 - 110	03/17/15 13:54	03/19/15 12:19	1
Terphenyl-d14 (Surr)	86		48 - 110	03/17/15 13:54	03/19/15 12:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.0010	U	0.0010	0.00017	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1221	0.0010	U	0.0010	0.00013	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1232	0.0010	U	0.0010	0.00016	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1242	0.0010	U	0.0010	0.00022	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1248	0.0010	U	0.0010	0.00010	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1254	0.0010	U	0.0010	0.00010	mg/L		03/17/15 14:00	03/18/15 23:50	1
Aroclor-1260	0.0010	U	0.0010	0.00017	mg/L		03/17/15 14:00	03/18/15 23:50	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Client Sample ID: WC_PLANT 2 (031115)

Lab Sample ID: 240-48163-1

Date Collected: 03/11/15 15:45

Matrix: Solid

Date Received: 03/13/15 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		15 - 123	03/17/15 14:00	03/18/15 23:50	1
DCB Decachlorobiphenyl	94		10 - 110	03/17/15 14:00	03/18/15 23:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0077	J B	0.50	0.0029	mg/L		03/17/15 14:01	03/18/15 15:06	1
Barium	0.64	J B	10	0.0010	mg/L		03/17/15 14:01	03/18/15 15:06	1
Cadmium	0.00061	J	0.10	0.00014	mg/L		03/17/15 14:01	03/18/15 15:06	1
Chromium	0.0032	J B	0.50	0.00055	mg/L		03/17/15 14:01	03/18/15 15:06	1
Lead	0.0085	J	0.50	0.0019	mg/L		03/17/15 14:01	03/18/15 15:06	1
Selenium	0.0059	J B	0.25	0.0040	mg/L		03/17/15 14:01	03/18/15 15:06	1
Silver	0.50	U	0.50	0.00092	mg/L		03/17/15 14:01	03/18/15 15:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L		03/17/15 14:30	03/18/15 13:48	1

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (80-120)	DBFM (80-128)
LCS 240-172487/10	Lab Control Sample	91	85	94	90
Surrogate Legend					
12DCE = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (80-121)	BFB (70-124)	TOL (80-120)	DBFM (80-128)
240-48163-1	WC_PLANT 2 (031115)	94	85	92	87
240-48163-1 MS	WC_PLANT 2 (031115)	89	89	95	88
240-48163-1 MSD	WC_PLANT 2 (031115)	91	89	95	88
LB 240-172332/1-A MB	Method Blank	93	84	92	87
Surrogate Legend					
12DCE = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-110)	2FP (20-110)	TBP (23-110)	NBZ (28-110)	PHL (21-110)	TPH (48-110)
LCS 240-172470/11-A	Lab Control Sample	79	60	91	78	50	81
MB 240-172470/10-A	Method Blank	84	69	95	77	54	87
Surrogate Legend							
FBP = 2-Fluorobiphenyl (Surr)							
2FP = 2-Fluorophenol (Surr)							
TBP = 2,4,6-Tribromophenol (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
PHL = Phenol-d5 (Surr)							
TPH = Terphenyl-d14 (Surr)							

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-110)	2FP (20-110)	TBP (23-110)	NBZ (28-110)	PHL (21-110)	TPH (48-110)
240-48163-1	WC_PLANT 2 (031115)	78	59	103	72	51	86
Surrogate Legend							

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (15-123)	DCB2 (10-110)
LCS 240-172471/4-A	Lab Control Sample	82	90
MB 240-172471/3-A	Method Blank	90	99

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (15-123)	DCB2 (10-110)
240-48163-1	WC_PLANT 2 (031115)	89	94
240-48163-1 MS	WC_PLANT 2 (031115)	87	81

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-172487/10

Matrix: Solid

Analysis Batch: 172487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.00	1.07		mg/L		107	71 - 133
1,2-Dichloroethane	1.00	1.05		mg/L		105	80 - 120
Benzene	1.00	1.08		mg/L		108	80 - 120
Carbon tetrachloride	1.00	1.18		mg/L		118	54 - 122
Chlorobenzene	1.00	1.02		mg/L		102	80 - 120
Chloroform	1.00	1.04		mg/L		104	80 - 123
Tetrachloroethene	1.00	1.01		mg/L		101	79 - 134
Trichloroethene	1.00	1.04		mg/L		104	78 - 130
Vinyl chloride	1.00	0.993		mg/L		99	56 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 121
4-Bromofluorobenzene (Surr)	85		70 - 124
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	90		80 - 128

Lab Sample ID: LB 240-172332/1-A MB

Matrix: Solid

Analysis Batch: 172487

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.0095	mg/L			03/17/15 18:48	1
1,2-Dichloroethane	0.025	U	0.025	0.011	mg/L			03/17/15 18:48	1
2-Butanone (MEK)	0.25	U	0.25	0.029	mg/L			03/17/15 18:48	1
Benzene	0.025	U	0.025	0.0065	mg/L			03/17/15 18:48	1
Carbon tetrachloride	0.025	U	0.025	0.0065	mg/L			03/17/15 18:48	1
Chlorobenzene	0.025	U	0.025	0.0075	mg/L			03/17/15 18:48	1
Chloroform	0.025	U	0.025	0.0080	mg/L			03/17/15 18:48	1
Tetrachloroethene	0.025	U	0.025	0.015	mg/L			03/17/15 18:48	1
Trichloroethene	0.025	U	0.025	0.0085	mg/L			03/17/15 18:48	1
Vinyl chloride	0.025	U	0.025	0.011	mg/L			03/17/15 18:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 121		03/17/15 18:48	1
4-Bromofluorobenzene (Surr)	84		70 - 124		03/17/15 18:48	1
Toluene-d8 (Surr)	92		80 - 120		03/17/15 18:48	1
Dibromofluoromethane (Surr)	87		80 - 128		03/17/15 18:48	1

Lab Sample ID: 240-48163-1 MS

Matrix: Solid

Analysis Batch: 172487

Client Sample ID: WC_PLANT 2 (031115)

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.025	U	1.00	1.05		mg/L		105	67 - 139
1,2-Dichloroethane	0.025	U	1.00	1.01		mg/L		101	80 - 120
Benzene	0.025	U	1.00	1.03		mg/L		103	80 - 120
Carbon tetrachloride	0.025	U	1.00	0.993		mg/L		99	60 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-48163-1 MS

Matrix: Solid

Analysis Batch: 172487

Client Sample ID: WC_PLANT 2 (031115)

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	0.025	U	1.00	0.976		mg/L		98	80 - 120
Chloroform	0.025	U	1.00	0.984		mg/L		98	80 - 124
Tetrachloroethene	0.025	U	1.00	0.950		mg/L		95	74 - 138
Trichloroethene	0.025	U	1.00	0.971		mg/L		97	75 - 134
Vinyl chloride	0.025	U	1.00	0.986		mg/L		99	51 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 121
4-Bromofluorobenzene (Surr)	89		70 - 124
Toluene-d8 (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	88		80 - 128

Lab Sample ID: 240-48163-1 MSD

Matrix: Solid

Analysis Batch: 172487

Client Sample ID: WC_PLANT 2 (031115)

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.025	U	1.00	1.03		mg/L		103	67 - 139	2	30
1,2-Dichloroethane	0.025	U	1.00	0.972		mg/L		97	80 - 120	4	30
Benzene	0.025	U	1.00	1.02		mg/L		102	80 - 120	1	30
Carbon tetrachloride	0.025	U	1.00	1.10		mg/L		110	60 - 120	10	30
Chlorobenzene	0.025	U	1.00	0.964		mg/L		96	80 - 120	1	30
Chloroform	0.025	U	1.00	0.974		mg/L		97	80 - 124	1	30
Tetrachloroethene	0.025	U	1.00	0.974		mg/L		97	74 - 138	2	30
Trichloroethene	0.025	U	1.00	0.990		mg/L		99	75 - 134	2	30
Vinyl chloride	0.025	U	1.00	0.978		mg/L		98	51 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 121
4-Bromofluorobenzene (Surr)	89		70 - 124
Toluene-d8 (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	88		80 - 128

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-172470/10-A

Matrix: Solid

Analysis Batch: 172731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00034	mg/L		03/17/15 13:54	03/19/15 09:49	1
2,4,5-Trichlorophenol	0.0040	U	0.0040	0.00030	mg/L		03/17/15 13:54	03/19/15 09:49	1
2,4,6-Trichlorophenol	0.0040	U	0.0040	0.00024	mg/L		03/17/15 13:54	03/19/15 09:49	1
2,4-Dinitrotoluene	0.0040	U	0.0040	0.00025	mg/L		03/17/15 13:54	03/19/15 09:49	1
Hexachlorobenzene	0.00080	U	0.00080	0.000085	mg/L		03/17/15 13:54	03/19/15 09:49	1
Hexachlorobutadiene	0.0040	U	0.0040	0.00027	mg/L		03/17/15 13:54	03/19/15 09:49	1
Hexachloroethane	0.0040	U	0.0040	0.00019	mg/L		03/17/15 13:54	03/19/15 09:49	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-172470/10-A

Matrix: Solid

Analysis Batch: 172731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.0040	U	0.0040	0.00080	mg/L		03/17/15 13:54	03/19/15 09:49	1
2-Methylphenol	0.0040	U	0.0040	0.00017	mg/L		03/17/15 13:54	03/19/15 09:49	1
Nitrobenzene	0.0040	U	0.0040	0.000040	mg/L		03/17/15 13:54	03/19/15 09:49	1
Pentachlorophenol	0.0040	U	0.0040	0.00027	mg/L		03/17/15 13:54	03/19/15 09:49	1
Pyridine	0.0040	U	0.0040	0.00035	mg/L		03/17/15 13:54	03/19/15 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		30 - 110	03/17/15 13:54	03/19/15 09:49	1
2-Fluorophenol (Surr)	69		20 - 110	03/17/15 13:54	03/19/15 09:49	1
2,4,6-Tribromophenol (Surr)	95		23 - 110	03/17/15 13:54	03/19/15 09:49	1
Nitrobenzene-d5 (Surr)	77		28 - 110	03/17/15 13:54	03/19/15 09:49	1
Phenol-d5 (Surr)	54		21 - 110	03/17/15 13:54	03/19/15 09:49	1
Terphenyl-d14 (Surr)	87		48 - 110	03/17/15 13:54	03/19/15 09:49	1

Lab Sample ID: LCS 240-172470/11-A

Matrix: Solid

Analysis Batch: 172731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0800	0.0580		mg/L		73	52 - 110
2,4,5-Trichlorophenol	0.0800	0.0712		mg/L		89	51 - 110
2,4,6-Trichlorophenol	0.0800	0.0707		mg/L		88	46 - 110
2,4-Dinitrotoluene	0.0800	0.0716		mg/L		89	54 - 110
Hexachlorobenzene	0.0800	0.0654		mg/L		82	50 - 110
Hexachlorobutadiene	0.0800	0.0621		mg/L		78	34 - 110
Hexachloroethane	0.0800	0.0565		mg/L		71	41 - 110
2-Methylphenol	0.0800	0.0592		mg/L		74	44 - 111
Pentachlorophenol	0.160	0.134		mg/L		84	12 - 110
Pyridine	0.0800	0.0481		mg/L		60	30 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	79		30 - 110
2-Fluorophenol (Surr)	60		20 - 110
2,4,6-Tribromophenol (Surr)	91		23 - 110
Nitrobenzene-d5 (Surr)	78		28 - 110
Phenol-d5 (Surr)	50		21 - 110
Terphenyl-d14 (Surr)	81		48 - 110

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-172471/3-A

Matrix: Solid

Analysis Batch: 172680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.0010	U	0.0010	0.00017	mg/L		03/17/15 14:00	03/19/15 00:17	1
Aroclor-1221	0.0010	U	0.0010	0.00013	mg/L		03/17/15 14:00	03/19/15 00:17	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-172471/3-A

Matrix: Solid

Analysis Batch: 172680

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172471

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1232	0.0010	U	0.0010	0.00016	mg/L		03/17/15 14:00	03/19/15 00:17	1
Aroclor-1242	0.0010	U	0.0010	0.00022	mg/L		03/17/15 14:00	03/19/15 00:17	1
Aroclor-1248	0.0010	U	0.0010	0.00010	mg/L		03/17/15 14:00	03/19/15 00:17	1
Aroclor-1254	0.0010	U	0.0010	0.00010	mg/L		03/17/15 14:00	03/19/15 00:17	1
Aroclor-1260	0.0010	U	0.0010	0.00017	mg/L		03/17/15 14:00	03/19/15 00:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		15 - 123	03/17/15 14:00	03/19/15 00:17	1
DCB Decachlorobiphenyl	99		10 - 110	03/17/15 14:00	03/19/15 00:17	1

Lab Sample ID: LCS 240-172471/4-A

Matrix: Solid

Analysis Batch: 172680

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0200	0.0162		mg/L		81	33 - 118
Aroclor-1260	0.0200	0.0151		mg/L		75	10 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	82		15 - 123
DCB Decachlorobiphenyl	90		10 - 110

Lab Sample ID: 240-48163-1 MS

Matrix: Solid

Analysis Batch: 172680

Client Sample ID: WC_PLANT 2 (031115)

Prep Type: TCLP

Prep Batch: 172471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	0.0010	U	0.0200	0.0162		mg/L		81	10 - 166
Aroclor-1260	0.0010	U	0.0200	0.0152		mg/L		76	21 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	87		15 - 123
DCB Decachlorobiphenyl	81		10 - 110

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-172394/2-A

Matrix: Solid

Analysis Batch: 172550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	0.0029	mg/L		03/17/15 14:01	03/18/15 09:35	1
Barium	10	U	10	0.0010	mg/L		03/17/15 14:01	03/18/15 09:35	1
Cadmium	0.10	U	0.10	0.00014	mg/L		03/17/15 14:01	03/18/15 09:35	1
Chromium	0.50	U	0.50	0.00055	mg/L		03/17/15 14:01	03/18/15 09:35	1
Lead	0.50	U	0.50	0.0019	mg/L		03/17/15 14:01	03/18/15 09:35	1
Selenium	0.25	U	0.25	0.0040	mg/L		03/17/15 14:01	03/18/15 09:35	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-172394/2-A

Matrix: Solid

Analysis Batch: 172550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.50	U	0.50	0.00092	mg/L		03/17/15 14:01	03/18/15 09:35	1

Lab Sample ID: LCS 240-172394/3-A

Matrix: Solid

Analysis Batch: 172550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.99		mg/L		99	50 - 150
Barium	2.00	1.90	J	mg/L		95	50 - 150
Cadmium	0.0500	0.0496	J	mg/L		99	50 - 150
Chromium	0.200	0.194	J	mg/L		97	50 - 150
Lead	0.500	0.448	J	mg/L		90	50 - 150
Selenium	2.00	2.07		mg/L		103	50 - 150
Silver	0.0500	0.0535	J	mg/L		107	50 - 150

Lab Sample ID: LB 240-172328/1-B

Matrix: Solid

Analysis Batch: 172550

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 172394

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00438	J	0.50	0.0029	mg/L		03/17/15 14:01	03/18/15 09:30	1
Barium	0.00209	J	10	0.0010	mg/L		03/17/15 14:01	03/18/15 09:30	1
Cadmium	0.10	U	0.10	0.00014	mg/L		03/17/15 14:01	03/18/15 09:30	1
Chromium	0.00191	J	0.50	0.00055	mg/L		03/17/15 14:01	03/18/15 09:30	1
Lead	0.50	U	0.50	0.0019	mg/L		03/17/15 14:01	03/18/15 09:30	1
Selenium	0.00453	J	0.25	0.0040	mg/L		03/17/15 14:01	03/18/15 09:30	1
Silver	0.50	U	0.50	0.00092	mg/L		03/17/15 14:01	03/18/15 09:30	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-172397/2-A

Matrix: Solid

Analysis Batch: 172642

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 172397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L		03/17/15 14:30	03/18/15 13:36	1

Lab Sample ID: LCS 240-172397/3-A

Matrix: Solid

Analysis Batch: 172642

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 172397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00497		mg/L		99	80 - 120

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QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 240-172328/1-C

Matrix: Solid

Analysis Batch: 172642

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 172397

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.000090	mg/L	—	03/17/15 14:30	03/18/15 14:17	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

GC/MS VOA

Leach Batch: 172332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	1311	
240-48163-1 MS	WC_PLANT 2 (031115)	TCLP	Solid	1311	
240-48163-1 MSD	WC_PLANT 2 (031115)	TCLP	Solid	1311	
LB 240-172332/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 172487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	8260B	172332
240-48163-1 MS	WC_PLANT 2 (031115)	TCLP	Solid	8260B	172332
240-48163-1 MSD	WC_PLANT 2 (031115)	TCLP	Solid	8260B	172332
LB 240-172332/1-A MB	Method Blank	TCLP	Solid	8260B	172332
LCS 240-172487/10	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 172328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	1311	

Prep Batch: 172470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	3510C	172328
LCS 240-172470/11-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 240-172470/10-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 172731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	8270C	172470
LCS 240-172470/11-A	Lab Control Sample	Total/NA	Solid	8270C	172470
MB 240-172470/10-A	Method Blank	Total/NA	Solid	8270C	172470

GC Semi VOA

Leach Batch: 172328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	1311	
240-48163-1 MS	WC_PLANT 2 (031115)	TCLP	Solid	1311	

Prep Batch: 172471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	3510C	172328
240-48163-1 MS	WC_PLANT 2 (031115)	TCLP	Solid	3510C	172328
LCS 240-172471/4-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 240-172471/3-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 172680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	8082A	172471
240-48163-1 MS	WC_PLANT 2 (031115)	TCLP	Solid	8082A	172471
LCS 240-172471/4-A	Lab Control Sample	Total/NA	Solid	8082A	172471

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QC Association Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

GC Semi VOA (Continued)

Analysis Batch: 172680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-172471/3-A	Method Blank	Total/NA	Solid	8082A	172471

Metals

Leach Batch: 172328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	1311	
LB 240-172328/1-B	Method Blank	TCLP	Solid	1311	
LB 240-172328/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 172394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	3010A	172328
LB 240-172328/1-B	Method Blank	TCLP	Solid	3010A	172328
LCS 240-172394/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-172394/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 172397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	7470A	172328
LB 240-172328/1-C	Method Blank	TCLP	Solid	7470A	172328
LCS 240-172397/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-172397/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 172550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	6010B	172394
LB 240-172328/1-B	Method Blank	TCLP	Solid	6010B	172394
LCS 240-172394/3-A	Lab Control Sample	Total/NA	Solid	6010B	172394
MB 240-172394/2-A	Method Blank	Total/NA	Solid	6010B	172394

Analysis Batch: 172642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48163-1	WC_PLANT 2 (031115)	TCLP	Solid	7470A	172397
LB 240-172328/1-C	Method Blank	TCLP	Solid	7470A	172397
LCS 240-172397/3-A	Lab Control Sample	Total/NA	Solid	7470A	172397
MB 240-172397/2-A	Method Blank	Total/NA	Solid	7470A	172397

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw - B0086991.2015

TestAmerica Job ID: 240-48163-1

Client Sample ID: WC_PLANT 2 (031115)

Lab Sample ID: 240-48163-1

Date Collected: 03/11/15 15:45

Matrix: Solid

Date Received: 03/13/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			172332	03/16/15 18:30	SMH	TAL CAN
TCLP	Analysis	8260B		1	172487	03/17/15 20:23	TJL1	TAL CAN
TCLP	Leach	1311			172328	03/16/15 17:20	DRJ	TAL CAN
TCLP	Prep	3510C			172470	03/17/15 13:54	CS	TAL CAN
TCLP	Analysis	8270C		1	172731	03/19/15 12:19	MRU	TAL CAN
TCLP	Leach	1311			172328	03/16/15 17:20	DRJ	TAL CAN
TCLP	Prep	3510C			172471	03/17/15 14:00	JDR	TAL CAN
TCLP	Analysis	8082A		1	172680	03/18/15 23:50	HMB	TAL CAN
TCLP	Leach	1311			172328	03/16/15 17:20	DRJ	TAL CAN
TCLP	Prep	3010A			172394	03/17/15 14:01	WAL	TAL CAN
TCLP	Analysis	6010B		1	172550	03/18/15 15:06	KLC	TAL CAN
TCLP	Leach	1311			172328	03/16/15 17:20	DRJ	TAL CAN
TCLP	Prep	7470A			172397	03/17/15 14:30	WAL	TAL CAN
TCLP	Analysis	7470A		1	172642	03/18/15 13:48	BW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-48163-1

Project/Site: RACER Saginaw - B0086991.2015

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-48163 Chain of Custody

2.4/C2.9



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 1

Contact & Company Name: Kristen Templin		Telephone: 248-994-2320	Preservative: E	Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz Glass 7. 4 oz Glass 8. 8 oz Glass 9. Other: 10. Other:							
Address: 28550 Cabot Dr. Suite 500		Fax: 248-994-2241	Filtered (✓) 4	Preservation Key: A. H ₂ SO ₄ B. HCl C. HNO ₃ D. NaOH E. None F. Other: G. Other: H. Other:							
City: Novi, MI 48377		E-mail Address: Kristen.Templin@arcadis-us.com	# of Containers: 4	Matrix Key: SE - Sediment SW - Sample Wipe SL - Sludge A - Air Other:							
Project Name/Location (City, State): ARCIS - New Plant 2		Project #: 0008991.2015.00002	Container Information: TCLP Metals, TCLP VOC, TCLP PCB	REMARKS							
Sampler's Printed Name: AUSTIN WESTHUIS		Sampler's Signature: <i>Austin Westhuis</i>									
Sample ID	Collection	Type (✓)	Matrix								
WC - Plant 2 (031115)	Date: 3/11/15 Time: 1545	Comp: ✓	So								
Michigan 190											
Special Instructions/Comments: 5-Day TAT											
☐ Special QA/QC Instructions (✓):											
Laboratory Information and Receipt		Relinquished By		Received By							
Lab Name: Test America	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Austin Westhuis	Printed Name: Brighton Old Storage	Printed Name: Brighton Old Storage	Laboratory Received By						
Signature: <i>Austin Westhuis</i>	Signature: <i>Austin Westhuis</i>	Signature: <i>Austin Westhuis</i>	Signature: <i>Brighton Old Storage</i>	Signature: <i>Brighton Old Storage</i>	Signature: <i>Brighton Old Storage</i>						
Firm: ARCADIS	Firm: ARCADIS	Firm/Courier: ARCADIS	Firm/Courier: ARCADIS	Firm/Courier: ARCADIS	Firm: ARCADIS						
Sample Receipt: 5-Day	Condition/Cooler Temp:	Date/Time: 3/11/15 1815	Date/Time: 3/11/15 1815	Date/Time: 3/12/15 10:25	Date/Time: 3/12/15 10:25						
Shipping Tracking #:											
Distribution:		Distribution:									
WHITE - Laboratory returns with results		YELLOW - Lab copy									
20730828 CoC AR Form 01.12.2007		PINK - Retained by ARCADIS									

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Client Arcadis Site Name _____ Login # 48103

Cooler Received on 3/13/15 Opened on 3/13/15 Cooler unpacked by: Jessie Bonni

FedEx: 1st Gr Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # M15VC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +4.0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF +0.5 °C)	Observed Cooler Temp. <u>2.4</u> °C	Corrected Cooler Temp. <u>2.9</u> °C	
IR GUN# 5	(CF +0.4 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF -1.2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the sampler(s) clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC425511

12. Were VOAs on the COC? Yes No

13. Were air bubbles >6 mm in any VOA vials? Yes No NA

14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: AM

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Tom Holdeman

From: Midwest TSC <TSCMidwest@wm.com>
Sent: Monday, May 04, 2015 7:53 AM
To: Tom Holdeman
Subject: [WMSolutions.com] Profile #115329MI has been approved



THINK GREEN.®

MAY, 4 2015

Notice of Profile Approval: #115329MI

Profile Number:
115329MI
Waste Stream:
Lead Impacted Soil
Generator Name:
Racer Trust
Disposal Site:
Peoples Landfill
Comments:
A manifest is required for all shipments.
Expiration Date:
04/29/2016

Dear Tom Holdeman,

We are pleased to inform you that Profile 115329MI has been approved by our Midwest Technical Service Center. Your

Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your WMSolutions.com account.

Please feel free to email us at TSCMidwest@wm.com or call 800-963-4776 with any questions.

Thank you for choosing Waste Management.

You are receiving this message as a registered customer of WMSolutions.com.

Waste Management respects your privacy. To review our Privacy Policy, [click here](#).

© 2015 Waste Management. All rights reserved.

Midwest TSC

W132 N10487 Grant Drive

Germantown, WI 53022

Phone: (800) 963-4776

TSCMidwest@wm.com



Appendix C

Waste Manifests and Landfill Tickets



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 256880

Customer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Ticket Date 05/19/2015 Vehicle# 874 Volume 45.0
Payment Type Credit Account Container
Manual Ticket# Driver
Billing Ticket# Check#
Waste Code Billing # 0001582
Manifest # 402972 Gen EPA ID
Destination Grid

Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 09:09:50	SCALE1	kjames		90000 lb	
05/19/2015 09:27:25	SCALE1	kjames		Tare 35900 lb	
				Net 54100 lb	
				Tons 27.05	

Comments RACER TRUST

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		27.05	Tons				MI-SAGINAW

Total Fees
Total Ticket

Generator's Signature
403WM-N

TRANSPORTER	Printed Name Gary Gilbert		Signature Gary Gilbert		Month 5	Day 19	Year 15
	18. Transporter 2 Acknowledgement of Receipt of Materials						
FACILITY	Printed Name		Signature		Month	Day	Year
	19. Certificate of Final Treatment/Disposal						
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Kristy Jones		Signature Kristy Jones		Month 5	Day 19	Year 15	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: 79 WEST CENTER STREET SAGINAW, MI 48602		Generator's Site Address (If different than mailing): 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA		T 402972			
4. Generator's Phone: 10-225-1521				B. State Generator's ID					
5. Transporter 1 Company Name 3rd party		6. US EPA ID Number		C. State Transporter's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility ID					
				H. State Facility Phone		989-777-1145			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a. Lead Impacted Soil		No.	Type					
	WM Profile # 115329MI								
	b.								
	WM Profile #								
	c.								
TRANSPORTER	WM Profile #								
	d.								
	WM Profile #								
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
15. Special Handling Instructions and Additional Information		Cell		Level					
		Grid							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Tom Holdeman / 989-671-3312							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name		Signature "On behalf of"				Month	Day	Year	
Agent for RACER TRUST & RACER Properties		Dustin S. Smith				5	19	15	
FACILITY	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
			Dary Gilbert		Dary Gilbert		5	19	15
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.									
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.									
Printed Name		Signature				Month	Day	Year	
Kathy Jones		Kathy Jones				5	19	15	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48413
Ph: 989 777 1145

Original
Ticket# 258822

mer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
t Date 05/19/2015 Vehicle# 873 Volume 40.0
nt Type Credit Account Container
l Ticket# Driver
ng Ticket# Check#
Billing # 0001582
Waste Code Gen EPA ID
est 402973 Grid
nation

le 115329MI (LEAD IMPACTED SOIL)
ator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 09:22:42	SCALE1	kjames		34240 lb	
05/19/2015 09:37:14	SCALE1	kjames		Tare 35760 lb	
				Net 58480 lb	
				Tons 29.24	

nts RACER TRUST

it	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		29.24	Tons				MI-SAGINAW

Total Fees
Total Ticket

s Signature
VM-N

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rodney Kloss		5	19	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kristy James		5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-225-1921				Generator's Site Address (If different than mailing): 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY				A. Manifest Number WMNA T 402973	
5. Transporter 1 Company Name 3rd party 873				6. US EPA ID Number				B. State Generator's ID	
7. Transporter 2 Company Name				8. US EPA ID Number				C. State Transporter's ID D. Transporter's Phone	
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415				10. US EPA ID Number				E. State Transporter's ID F. Transporter's Phone	
								G. State Facility ID H. State Facility Phone 989-777-1145	
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. Lead impacted Soil				No.	Type			
	WM Profile # 115329MI								
	b.								
	WM Profile #								
	c.								
	WM Profile #								
	d.								
	WM Profile #								
	J. Additional Descriptions for Materials Listed Above				K. Disposal Location				
				Cell		Level			
				Grid					
15. Special Handling Instructions and Additional Information									
Purchase Order # EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3318									
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name AGENT for RACER TRUST - RACER Properties Dustin Swarthout				Signature "On behalf of"		Month 5	Day 19	Year 15	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed Name Rodney Kellogg		Signature		Month 5	Day 19	Year 15		
	18. Transporter 2 Acknowledgement of Receipt of Materials								
	Printed Name		Signature		Month	Day	Year		
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
	Printed Name Kristy James		Signature		Month 5	Day 19	Year 15		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258895

Mer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
t Date 05/19/2015 Vehicle# 874 Volume 45.0
nt Type Credit Account Container
l Ticket# Driver
ng Ticket# Check#
Billing # 0001582
Waste Code Gen EPA ID
est 402974 Grid
nation

le 115329MI (LEAD IMPACTED SOIL)
ator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 10:31:42	SCALE1	kjames		88940 lb	
05/19/2015 10:31:42		kjames		Tare 35900 lb	
				Net 53040 lb	
				Tons 26.52	

nts RACER TRUST

at	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		26.52	Tons				MI-SAGINAW

Total Fees
Total Ticket

Gary Gilbert
s Signature

WM-N

Printed Name

Gary Gilbert

Signature

Gary Gilbert

Month Day Year

5 19 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name

Signature

Month Day Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name

Kristen James

Signature

Kristen James

Month Day Year

5 19 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-225-1832				Generator's Site Address (if different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402974		
5. Transporter 1 Company Name				6. US EPA ID Number		B. State Generator's ID		
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID		
9. Designated Facility Name and Site Address People's Landfill, Inc. 4143 East Rathbun Birch Run, MI 48415				10. US EPA ID Number		D. Transporter's Phone		
						E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility ID		
						H. State Facility Phone 989-777-1145		
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. Lead Impacted Soil WM Profile #			No.	Type		26.52	
	b. 115329MI WM Profile #							
	c. WM Profile #							
	d. WM Profile #							
	J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level			
			Grid					
15. Special Handling Instructions and Additional Information								
Purchase Order #								
EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 889-671-3312								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name			Signature "On behalf of"			Month	Day	Year
AGENT FOR RACER TRUST + RACER TRUST			[Signature]			5	19	15
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			Printed Name			Signature	
				GARY GILBERT			[Signature]	
							Month Day Year 5 19 15	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			Printed Name			Signature	
							Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name			Signature			Month	Day	Year
Kristin James			[Signature]			5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258897

mer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
t Date 05/19/2015 Vehicle# 873 Volume 40.0
nt Type Credit Account Container
l Ticket# Driver
ng Ticket# Check#
Billing # 0001582
Waste Code Gen EPA ID
est 402975 Grid
nation

le 115329MI (LEAD IMPACTED SOIL)
ator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 10:43:16	SCALE1	Rjames		Tare	98960 lb
05/19/2015 10:43:16		Rjames		Net	35760 lb
				Tons	63200 lb
					31.60

nts RACER TRUST

nt	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		31.60	Tons				MI-SAGINAW

Rodney Williams

Total Fees
Total Ticket

's Signature
WM-N



17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rodney Williams	<i>Rodney Williams</i>	5	19	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kristen James	<i>Kristen James</i>	5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-725-1921				Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY				A. Manifest Number WMNA T 402975	
5. Transporter 1 Company Name				6. US EPA ID Number				B. State Generator's ID	
7. Transporter 2 Company Name				8. US EPA ID Number				C. State Transporter's ID	
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415				10. US EPA ID Number				D. Transporter's Phone	
								E. State Transporter's ID	
								F. Transporter's Phone	
								G. State Facility ID	
								H. State Facility Phone 989 777 1145	
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. Lead Impacted Soil WM Profile #			No.	Type		31.60		
	b. 115329MI WM Profile #								
	c. WM Profile #								
	d. WM Profile #								
TRANSPORTER	J. Additional Descriptions for Materials Listed Above			K. Disposal Location					
				Cell Grid					
FACILITY	15. Special Handling Instructions and Additional Information								
	Purchase Order #								
	EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3312								
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
	Printed Name Kent FOR RACER TRUST & RACER Asbestos Dust & Soil Thout			Signature "On behalf of" [Signature]			Month 5	Day 19	Year 15
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			Printed Name Rodney KIOS			Signature [Signature]		
							Month 5	Day 19	Year 15
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			Printed Name			Signature		
							Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name Kristy James			Signature [Signature]			Month 5	Day 19	Year 15	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4443 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258908

Customer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Ticket Date 05/19/2015 Vehicle# 874 Volume 45.0
Payment Type Credit Account Container
Original Ticket# Driver
Billing Ticket# Check#
Waste Code Billing # 0001582
Manifest # 402976 Gen EPA ID
Destination Grid

Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 11:47:09	SCALE1	kjames		Tare	94280 lb
05/19/2015 11:47:09		kjames		Net	35900 lb
				Tons	58380 lb
					29.19

Comments RACER TRUST

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		29.19	Tons				MI-SAGINAW

Total Fees
Total Ticket

Generator's Signature

403WM-N

R A N S P O R T E R	Printed Name Gary Gilbert		Signature Gary Gilbert	Month 5	Day 19	Year 15
	18. Transporter 2 Acknowledgement of Receipt of Materials					
F A C I L I T Y	Printed Name		Signature	Month	Day	Year
	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
	Printed Name Krisley James		Signature Krisley James	Month 5	Day 19	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-375-1871		Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402976		B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 989-777-1145		
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
		No.	Type					
		a. Lead Impacted Soil WM Profile #						
		b. 115329MI WM Profile #						
		c. WM Profile #						
d. WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
15. Special Handling Instructions and Additional Information								
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-571-3318						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name		Signature "On behalf of"				Month	Day	Year
Kurt DE RACER TRUST & RACER PROPERTIES Justin Smith						5	19	15
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature				Month	Day	Year
Printed Name		Signature				Month	Day	Year
Gary Gilbert						5	19	15
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature				Month	Day	Year
Printed Name		Signature				Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name		Signature				Month	Day	Year
Keshy James						5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258912

er Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Date 05/19/2015 Vehicle# 873 Volume 40.0
Type Credit Account Container
Ticket# Driver
Ticket# Check#
Billing # 0001582
Waste Code Gen EPA ID
Site 402977 Grid
Location

115329MI (LEAD IMPACTED SOIL)
129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
5/19/2015 11:57:22	SCALE1	kjames		Tare	103360 lb
5/19/2015 11:57:22		kjames		Net	35760 lb
				Tons	67600 lb
					33.80

is RACER TRUST

LD%	Qty	UDM	Rate	Fee	Amount	Origin
nt Soil Sp. W.-T 100	33.80	Tons				MI-SAGINAW

Total Fees
Total Ticket

Signature

1-N

17. Transporter 1 Acknowledgement of receipt of materials

Printed Name	Signature	Month	Day	Year
Rodney Cross		5	19	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Kristy James		5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-225-1971		Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA		T 402977			
5. Transporter 1 Company Name		6. US EPA ID Number		B. State Generator's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID					
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		D. Transporter's Phone					
				E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility ID					
				H. State Facility Phone 989-777-3145					
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a.		No.	Type					
	Lead Impacted Soil WM Profile #					3380			
	b.								
	115329MI								
	WM Profile #								
TRANSPORTER	c.								
	WM Profile #								
	d.								
	WM Profile #								
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
FACILITY	15. Special Handling Instructions and Additional Information		Cell						
			Grid						
			Level						
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Tom Holdeman / 989-671-3318							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name AGENT FOR RACER TRUST & REXER PROPERTIES		Signature "On behalf of" Justin S. Belmont				Month 3	Day 17	Year 15	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Rodney Kross		Signature Rodney Kross		Month 5	Day 19	Year 15
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
	Printed Name Kristy James		Signature Kristy James				Month 5	Day 19	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258925

mer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
t Date 05/19/2015 Vehicle# 874 Volume 45.0
nt Type Credit Account Container
l Ticket# Driver
ng Ticket# Check#
Waste Code Billing # 0001582
est 402978 Gen EPA ID
nation Grid

le 115329MI (LEAD IMPACTED SOIL)
ator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 13:00:05	SCALE1	kjames		Tare	93020 lb
05/19/2015 13:00:05		kjames		Net	35900 lb
				Tons	57120 lb
					28.56

ct	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		28.56	Tons				MI-SAGINAW

Total Fees
Total Ticket

Roy Gilbert
s Signature

WM-N

Printed Name <i>Roy Gilbert</i>	Signature <i>Roy Gilbert</i>	Month 5	Day 19	Year 15
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
19. Certificate of Final Treatment/Disposal				
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name <i>Kathy James</i>	Signature <i>Kathy James</i>	Month 5	Day 19	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 510-225-1021		Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA		T 402978		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 989-777-1145		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. Lead Impacted Soil WM Profile #		No.	Type		28.56		
	b. 115329MI WM Profile #							
	c. WM Profile #							
	d. WM Profile #							
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3310				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name				Signature "On behalf of"		Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				Signature		Month	Day	Year
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				Signature		Month	Day	Year
Printed Name				Signature		Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 258930

mer Name JOBSITESERV115329MI JOB SITE
t Date 05/19/2015
nt Type Credit Account
I Ticket#
ng Ticket#
Waste Code
est 402979
nation
Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Vehicle# 873
Container
Driver
Check#
Billing # 0001582
Gen EPA ID
Grid

le 115329MI (LEAD IMPACTED SOIL)
ator 129-RACERTRUST79 RACER TRUST

Time	Scale	Operator	Inbound	Gross	
05/19/2015 13:15:53	SCALE1	kjames		Tare	98940 lb
05/19/2015 13:15:53		kjames		Net	35760 lb
				Tons	63180 lb
					31.59

ct	LD%	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		31.59	Tons				MI-SAGINAW

Robt Williams

Total Fees
Total Ticket

s Signature
M-N

Printed Name <i>Rodney Keloss</i>	Signature <i>Rodney Keloss</i>	Month 5	Day 19	Year 15
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
19. Certificate of Final Treatment/Disposal				
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name <i>Kasha James</i>	Signature <i>Kasha James</i>	Month 5	Day 19	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-775-1877		Generator's Site Address (if different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402979		B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 989-777-1145			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a. Lead Impacted Soil WM Profile #		No.	Type		31.59			
	b. 115329MI WM Profile #								
	c. WM Profile #								
	d. WM Profile #								
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
15. Special Handling Instructions and Additional Information		Cell		Level					
		Grid							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Torn Holdeman/ 989-871-3318							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name AGENT FOR RACER TRUST & RACER PROPERTIES		Signature "On behalf of" Dustin Swarthout				Month 5	Day 17	Year 15	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Rodney Kross		Signature Rodney Kross		Month 5	Day 19	Year 15
	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name Krisley James		Signature Krisley James				Month 5	Day 19	Year 15	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original 946714
Ticket# 258943

Customer Name JOBSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Ticket Date 05/19/2015 Vehicle# 874 Volume 45.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001582
State Waste Code Gen EPA ID
Manifest 402980 Grid
Destination
PO
Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

	Time	Scale	Operator	Inbound	Gross	
In	05/19/2015 14:11:49	SCALE1	kjames		Tare	91020 lb
Out	05/19/2015 14:11:49		kjames		Net	35900 lb
					Tons	55120 lb
Comments						27.56

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		27.56	Tons				MI-SAGINAW

Total Fees
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER	Printed Name <i>Gary Gilbert</i>	Signature <i>Gary Gilbert</i>	Month 5	Day 19	Year 1
	18. Transporter 2 Acknowledgement of Receipt of Materials				
FACILITY	Printed Name	Signature	Month	Day	Year
	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name <i>Kristy James</i>	Signature <i>Kristy James</i>	Month 5	Day 19	Year 1

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-775-1931				Generator's Site Address (if different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402980			
5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415				10. US EPA ID Number		E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility ID			
						H. State Facility Phone 989-777-1143			
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. Lead Impacted Soil WM Profile #			No.	Type		2756		
	b. 115329MI WM Profile #								
	c. WM Profile #								
	d. WM Profile #								
TRANSPORTER	J. Additional Descriptions for Materials Listed Above			K. Disposal Location					
				Cell		Level			
FACILITY	15. Special Handling Instructions and Additional Information								
	Purchase Order #				EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3318				
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
	Printed Name				Signature "On behalf of"		Month	Day	Year
	17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Month	Day	Year
TRANSPORTER	Printed Name				Signature		Month	Day	Year
	18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month	Day	Year
	Printed Name				Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
	Printed Name				Signature		Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original 9467152
Ticket# 258948

Customer Name JOBSITESERV115329MI JOB SITE
Ticket Date 05/19/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 402981
Destination
PO
Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Vehicle# 873
Container
Driver
Check#
Billing # 0001582
Gen EPA ID
Grid

Volume 40.0

	Time	Scale	Operator	Inbound	Gross	
In	05/19/2015 14:34:14	SCALE1	kjames			102580 lb
Out	05/19/2015 14:34:14		kjames		Tare	35760 lb
					Net	66820 lb
Comments					Tons	33.41

Product	LD%	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		33.41 Tons					MI-SAGINAW

Total Fees
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement or Receipt of Materials			
	Printed Name Rodney Kloss		Signature 	
			Month Day Year 5 19 15	
FACILITY	18. Transporter 2 Acknowledgement or Receipt of Materials			
	Printed Name		Signature	
			Month Day Year	
	19. Certificate of Final Treatment/Disposal			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Kristy James		Signature 	
	White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY		Blue- GENERATOR #2 COPY	
	Pink- FACILITY USE ONLY		Gold- TRANSPORTER #1 COPY	
			Yellow- GENERATOR #3	



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of				
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-775-1821				Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402981				
5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415				10. US EPA ID Number		E. State Transporter's ID				
						F. Transporter's Phone				
						G. State Facility ID				
						H. State Facility Phone 989-777-1145				
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a. Lead Impacted Soil WM Profile #			No.	Type		33.41			
	b. 115329MI WM Profile #									
	c. WM Profile #									
	d. WM Profile #									
J. Additional Descriptions for Materials Listed Above				K. Disposal Location						
				Cell						
				Grid						
15. Special Handling Instructions and Additional Information										
Purchase Order #										
EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3312										
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.										
Printed Name				Signature "On behalf of"				Month	Day	Year
ROBERT F. RACER TRUST + RACER TRUST				[Signature]				5	19	15
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed Name Rodney Kloss				Signature [Signature]				Month	Day
								5	19	15
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed Name				Signature				Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.									
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.									
	Printed Name Kristy Samois				Signature [Signature]				Month	Day
								5	19	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Peoples L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original -
Ticket# 258992

Customer Name JOBSITESERV115329MI JDB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Ticket Date 05/20/2015 Vehicle# 873 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001582
State Waste Code Gen EPA ID
Manifest 402582 Grid
Destination
PO
Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

	Time	Scale	Operator	Inbound	Gross	
In	05/20/2015 08:21:13	SCALE1	kjames		Tare	79160 lb
Out	05/20/2015 09:21:13		kjames		Net	35760 lb
Comments	RACER TRUST				Tons	43400 lb
						21.72

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Sp. W.-T 100		21.70	Tons				MI-SAGINAW

Total Fees
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name <i>Robert James</i>	Signature <i>Robert James</i>	Month <i>5</i>	Day <i>20</i>	Year <i>15</i>
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
FACILITY	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name <i>Kashy James</i>	Signature <i>Kashy James</i>	Month <i>5</i>	Day <i>20</i>	Year <i>15</i>

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 810-225-1521		Generator's Site Address (If different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA T 402982		B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 989-777-1145		
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
		No.	Type					
a. Lead Impacted Soil WM Profile #					2170			
b. WM Profile # 115329MI								
c. WM Profile #								
d. WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: Tom Holdeman/ 989-671-3315				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name		Signature "On behalf of"				Month	Day	Year
AGENT FOR RACER TRUST & OTHER PROPERTIES		Dustin Sawhorse				5	20	15
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature				Month	Day	Year
Printed Name		Rodney Kloss				5	20	15
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature				Month	Day	Year
Printed Name								
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name		Signature				Month	Day	Year
Kathy Jones		Kathy Jones				5	20	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Pedoles L/F
4143 E. Rathbun Rd
Birch Run, MI, 48415
Ph: 989 777 1145

Original
Ticket# 250997

Customer Name JOSSITESERV115329MI JOB SITE Carrier DHT VOORHEIS HAUSBECK EXCAVATING
Ticket Date 05/20/2015 Vehicle# 874 Volume 45.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001582
State Waste Code Gen EPA ID
Manifest 402983 Grid
Destination
PO
Profile 115329MI (LEAD IMPACTED SOIL)
Generator 129-RACERTRUST79 RACER TRUST

	Time	Scale	Operator	Inbound	Gross	
In	05/20/2015 08:46:03	SCALE1	kjames			62060 lb
Out	05/20/2015 08:48:03		kjames		Tare	35900 lb
					Net	26160 lb
					Tons	13.08

Comments RACER TRUST

Product	LDX	Qty	UOM	Rate	Fee	Amount	Origin
Cont Soil Sp. W.-T 100		13.08	Tons				MI-SAGINAW

Total Fees
Total Ticket

Gary Gilbert

Driver's Signature
403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement or Receipt of Materials				
	Printed Name <i>Gary Gilbert</i>	Signature <i>Gary Gilbert</i>	Month <i>5</i>	Day <i>20</i>	Year <i>15</i>
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name <i>Brishu James</i>	Signature <i>Brishu James</i>	Month <i>5</i>	Day <i>20</i>	Year <i>15</i>

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 4. Generator's Phone 510-375-1811		Generator's Site Address (if different than mailing): RACER TRUST 79 WEST CENTER STREET SAGINAW, MI 48602 SAGINAW COUNTY		A. Manifest Number WMNA		T 402983	
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		B. State Generator's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		E. State Transporter's ID	
9. Designated Facility Name and Site Address People's Landfill, Inc 4143 East Rathbun Birch Run, MI 48415		10. US EPA ID Number		F. Transporter's Phone		G. State Facility ID	
				H. State Facility Phone 989-777-1145			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. Lead Impacted Soil WM Profile #		No.	Type		13.08	
	b. 115329MI WM Profile #						
	c. WM Profile #						
	d. WM Profile #						
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location				
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: Tam Holdeman/ 989-671-3318			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name AGENT FOR RACER TRUST & RACER PROPERTIES				Signature "On behalf of" Justin Sawthorn		Month 5	Day 20
						Year 15	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed Name Gary Gilbert		Signature Gary Gilbert		Month 5	Day 20	Year 15
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials						
	Printed Name		Signature		Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
	Printed Name Kristy James		Signature Kristy James		Month 5	Day 20	Year 15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Appendix D

Well Abandonment Records

MONITOR WELL ABANDONMENT RECORD

Site Name: RACER Saginaw – Peninsula Property County: Saginaw.

Section: 35 Town: 12N Range: 4E Well ID#: MW-97-104S1

Date Installed: 11/17/1997 Date Abandoned: 5/19/2015 Drilling Firm: unknown

Well Depth: 24 ft Screen Depth from TOC: 19 ft Water Table Depth from TOC: 7.72 ft

Casing Type: Galvanized ☐ PVC ☒ Stainless Steel ☐ ID: 2" ☒ 4" ☐

Screen Type: PVC ☒ Stainless Steel ☐ Length: ft

2" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type

4" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type:

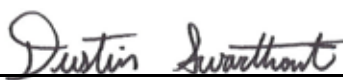
Casing: Pulled ☐ Cut ☒ Depth BGS: Well Grouted? Yes ☒ No ☐

Grout Type: Bentonite ☒ Cement ☐ Grouting Method: Through Casing ☐ Tremie ☐ Other ☐
(explain)

Crew: Dustin Swarthout (ARCADIS)

Location Sketch: See attachment.

Comments: Well was abandoned with heavy machinery pulling drop-pipe PVC, 2 inch schedule 40 casing. Void space was filled with Bentonite pellets to one foot below ground surface. Imported top soil was used to fill remaining void space to excavated ground surface (approximately 6 inches below native grade). Geo-fabric was placed atop native soils after completion of excavation and backfilled with an additional 6 inches of top soil per the excavation and restoration details.


Signature of Consultant/Engineer

5/19/2015
Date

MONITOR WELL ABANDONMENT RECORD

Site Name: RACER Saginaw – Peninsula Property County: Saginaw.

Section: 35 Town: 12N Range: 4E Well ID#: unknown piezometer

Date Installed: unknown Date Abandoned: 5/18/2015 Drilling Firm: unknown

Well Depth: unkn ft Screen Depth from TOC: unkn ft Water Table Depth from TOC: unkn ft

Casing Type: Galvanized ☐ PVC ☒ Stainless Steel ☐ ID: 2" ☒ 4" ☐

Screen Type: PVC ☒ Stainless Steel ☐ Length: ft

2" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type

4" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type:

Casing: Pulled ☐ Cut ☒ Depth BGS: 5ft Well Grouted? Yes ☒ No ☐

Grout Type: Bentonite ☒ Cement ☐ Grouting Method: Through Casing ☐ Tremie ☐ Other ☐
(explain)

Crew: Dustin Swarthout (ARCADIS)

Location Sketch: See attachment.

Comments: Well was abandoned with heavy machinery pulling drop-pipe PVC, 2 inch schedule 40 casing. Void space was filled with Bentonite pellets to one foot below ground surface. Imported top soil was used to fill remaining void space to excavated ground surface (approximately 6 inches below native grade). Geo-fabric was placed atop native soils after completion of excavation and backfilled with an additional 6 inches of top soil per the excavation and restoration details.

Dustin Swarthout 5/18/2015
Signature of Consultant/Engineer Date

MONITOR WELL ABANDONMENT RECORD

Site Name: RACER Saginaw – Peninsula Property County: Saginaw.

Section: 35 Town: 12N Range: 4E Well ID#: MW-97-104WT

Date Installed: 11/17/1997 Date Abandoned: 5/19/2015 Drilling Firm: unknown

Well Depth: 24 ft Screen Depth from TOC: 19 ft Water Table Depth from TOC: 8.24 ft

Casing Type: Galvanized ☐ PVC ☒ Stainless Steel ☐ ID: 2" ☒ 4" ☐

Screen Type: PVC ☒ Stainless Steel ☐ Length: ft

2" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type

4" Annulus Grouted: Yes ☐ No ☒ from ft to ft Grout Type:

Casing: Pulled ☐ Cut ☒ Depth BGS: Well Grouted? Yes ☒ No ☐

Grout Type: Bentonite ☒ Cement ☐ Grouting Method: Through Casing ☐ Tremie ☐ Other ☐
(explain)

Crew: Dustin Swarthout (ARCADIS)

Location Sketch: See attachment.

Comments: Well was abandoned with heavy machinery pulling drop-pipe PVC, 2 inch schedule 40 casing. Void space was filled with Bentonite pellets to one foot below ground surface. Imported top soil was used to fill remaining void space to excavated ground surface (approximately 6 inches below native grade). Geo-fabric was placed atop native soils after completion of excavation and backfilled with an additional 6 inches of top soil per the excavation and restoration details.

Dustin Swarthout
Signature of Consultant/Engineer 5/19/2015
Date



Appendix E

Photo Log

Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 1
Date: May 18, 2015
Direction: South
Description: SW excavation location prior to the start of excavation.



Photo No.: 2
Date: May 18, 2015
Direction: East
Description: NE excavation location prior to the start of excavation.

Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 3
Date: May 18, 2015
Direction: South
Description: Stickup well before abandonment.



Photo No.: 4
Date: May 18, 2015
Direction: South west
Description: Overview for MW-97-104SI, MW-97-104WT and stickup well before excavation.



Project Name: RACER Saginaw
Peninsula Property

City/State: Saginaw, MI

ARCADIS

Project No.: B0064434.2015

Photo No.: 5

Date: May 18, 2015

Direction: West

Description: Access path going into
Peninsula Property to SW
excavation.



Photo No.: 6

Date: May 18, 2015

Direction: North

Description: Start of SW excavation
border.



Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 7
Date: May 19, 2015
Direction: East
Description: Six inches removed from SW excavation area.



Photo No.: 8
Date: May 20, 2015
Direction: West
Description: Geotextile fabric in place and backfill being spread on SW excavation.

Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 9
Date: May 21, 2015
Direction: East
Description: SW excavation with backfill over geotextile.



Photo No.: 10
Date: May 21, 2015
Direction: South
Description: South east excavation being seeded.

Project Name: RACER Saginaw
Peninsula Property

City/State: Saginaw, MI

ARCADIS

Project No.: B0064434.2015



Photo No.: 11

Date: May 19, 2015

Direction: East

Description: Start with NE excavation with path.



Photo No.: 12

Date: May 20, 2015

Direction: East

Description: Six inches of soil removed from the NE excavation area

Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 13
Date: May 20, 2015
Direction: West
Description: NE Excavation with geotextile.



Photo No.: 14
Date: May 21, 2015
Direction: West
Description: NE excavation with backfill over geotextile.

Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 15
Date: May 21, 2015
Direction: North
Description: Seeded NE excavation.



Photo No.: 16
Date: May 21, 2015
Direction: East
Description: Fence along Peninsula Property boundary reinstalled along the access path.



Project Name: RACER Saginaw
Peninsula Property
City/State: Saginaw, MI
ARCADIS
Project No.: B0064434.2015



Photo No.: 17
Date: June 4, 2015
Direction: North
Description: Grass growth at SW excavation.



Photo No.: 18
Date: June 4, 2015
Direction: East
Description: Grass growth at NE excavation.



Appendix F

Load Tickets

19410

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

5/21/15

SOLD TO

JOB Site Seamus

ADDRESS

JOB NAME

TEL. NO.

QUAN.		PRICE	AMOUNT
24 yds	processed topsoil		

Remarks / Delivery Instructions:

19411

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

5/21/15

SOLD TO

JOB Site Seamus

ADDRESS

JOB NAME

TEL. NO.

QUAN.		PRICE	AMOUNT
24 yds	processed topsoil		

Remarks / Delivery Instructions:

19413

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE _____

5/21/15

SOLD TO Job Site Services

ADDRESS

JOB NAME _____ TEL. NO. _____

[illegible]

Remarks / Delivery Instructions:

19395

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE _____

5/20/15

SOLD TO

ADDRESS

JOB NAME _____ TEL. NO. _____

[illegible]

Remarks / Delivery Instructions:

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE _____

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

[illegible]

Remarks / Delivery Instructions:

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE _____

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

[illegible]

Remarks / Delivery Instructions:

19399

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

QUAN.		PRICE	AMOUNT
24 yds			

Remarks / Delivery Instructions:

19401

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

QUAN.		PRICE	AMOUNT
24 yds			

Remarks / Delivery Instructions:

19403

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

5/20/10

SOLD TO

Job Site Services

ADDRESS

JOB NAME

TEL. NO.

QUAN.

PRICE

AMOUNT

10 yds

processed report

Remarks / Delivery Instructions:

19393

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE

5/20/10

SOLD TO

Job Site Services

ADDRESS

JOB NAME

TEL. NO.

QUAN.

PRICE

AMOUNT

24 yds

processed report

Remarks / Delivery Instructions:

19391

DATE _____

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

Remarks / Delivery Instructions:

19389

DATE _____

SOLD TO

ADDRESS

JOB NAME

TEL. NO.

Remarks / Delivery Instructions:

Kidney

19388

DHT EXCAVATING
P.O. BOX 375
2695 W. VASSAR RD.
REESE, MI 48757
(989) 759-2010 ext 106

DATE _____

5/20/15

SOLD TO

DATE 2/10/11
DHT - Job Site Services

ADDRESS

JOB NAME

TEL. NO.

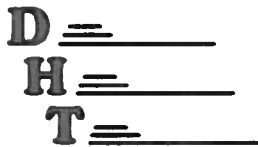
[illegible]

Remarks / Delivery Instructions:



Appendix G

Letter of Clean Fill



2695 W. Vassar Rd.
Reese, MI 48757
989-759-2010

Safety First.....
Satisfaction Always!

May 11, 2015

Job Site Services, Inc.
Attn: Tom Holdeman
4395 Wilder Road
Bay City, MI 48706

Dear Tom;

The gravel and topsoil supplied by DHT, Inc., is hereby certified as clean virgin material and to the best of my knowledge is free of contamination of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and 10-Michigan metals as listed in Part 213 of the Michigan Natural Resources and Environmental Protection Act, Act 451 of P.A. of 1994, as amended.

Sincerely,

Josh Zimmerman
DHT, Inc.