



Memorandum

January 19, 2017

To: Richard Conforti/MDEQ

Ref. No.: 012636

From:  Michael Tomka/Richard Chatfield/kf/92

CC: Joe Rogers, John McCabe/MDEQ
Dave Favero/RACER

**Subject: MW-17-13 Area Investigation Results, RACER Trust, Coldwater Road Industrial Lands
Genesee Township, Michigan**

1. Introduction

Additional groundwater investigation activities were completed in the vicinity of MW-17-13 in accordance with recommendations in the August 18th, 2016 memorandum to the Michigan Department of Environmental Quality (MDEQ) regarding elevated metals concentrations in groundwater samples from monitoring well MW-17-13 at the RACER Trust Coldwater Road Industrial Lands. A groundwater investigation using a Geoprobe® was completed on October 3, 2016. This memorandum summarizes the results of the investigation.

2. Investigation Summary

2.1 Boring Locations

Six Geoprobe® borings (BH1-16, BH2-16, BH3-16, BH4-16, BH5-16, and BH6-16) were advanced on October 3, 2016 in the vicinity of MW-17-13 in an attempt to delineate the saturated sand seam in which MW-17-13 is screened (774.28 to 780.38 feet above mean sea level [ft AMSL]). Two locations were completed on-Site north of Coldwater Road, one location was completed north of Coldwater Road within the road allowance, and three locations were completed south of Coldwater Road within the road allowance. The boring locations are presented on Figure 1. Once completed, all locations were backfilled with soil cuttings and the ground surface was restored to original grade. Boreholes were completed to depths of 30ft below ground surface or 5 ft into native clay; whichever was less. A Right-of-Way permit was received from the Genesee County Road Commission prior to completing the work.

The boring locations were surveyed on October 31, 2016.

2.2 Stratigraphy

Stratigraphy was recorded at all six locations. Stratigraphic logs are presented in Attachment A. At the four locations where water was encountered, a sand seam was identified at or near to the elevation of the sand



seam in which MW-17-13 is screened. Figure 2 and Figure 3 present east/west and north/south cross-sections in the vicinity of MW-17-13, respectively.

2.3 Borehole Water Sampling

Borehole water samples were collected at four of six borehole location (BH1-16, BH2-16, BH5-16, and BH6-16), field filtered, and submitted for laboratory dissolved metals analysis (arsenic, iron, manganese, and lead). Due to high turbidities total metals analysis was not completed. Two of the six locations were dry or did not produce sufficient water to collect a sample; therefore, no water samples were collected. Samples were submitted to TestAmerica Laboratories, Inc. in North Canton, Ohio under chain of custody procedures. The laboratory analytical report is presented in Attachment B.

3. Evaluation

3.1 Borehole Water Sample Results

Dissolved metals (arsenic, iron, lead, and manganese) were detected in all four of the samples collected. A summary of the analytical results is presented on Figure 1.

3.1.1 Dissolved Arsenic

Historic concentrations of dissolved arsenic at MW-17-13 range from 0.012 to 0.028 milligrams per litre (mg/L) across eight unique sampling events. The most recent sampling of MW-17-13 (September 28, 2016) had the highest dissolved arsenic concentration reported at MW-17-13 (0.028 mg/L). Borehole water concentrations at BH1-16 and BH2-16 (located north of Coldwater Road) were 0.018 and 0.012 mg/L, respectively. Borehole water concentrations at BH5-16 and BH6-16 (located south of Coldwater Road) were 0.056 and 0.12 mg/L, respectively.

Historic Site-wide groundwater sampling has not identified arsenic as a Site constituent of concern (COC), other than at location MW-17-13. A summary of recent groundwater monitoring results (2014 to 2016) is presented in Attachment C. It is noted that regional groundwater analyses completed by the MDEQ, Michigan Department of Community Health (MDCH), and the U. S. Geological Survey (USGS) have identified naturally occurring arsenic concentration within groundwaters throughout Genesee County above the MDEQ residential drinking water criterion of 0.01 mg/L¹.

A generally increasing trend in dissolved arsenic concentrations observed at MW-17-13 and both borehole water results from south of Coldwater Road having significantly higher results than the results north of Coldwater Road support an off-Site source of arsenic.

3.1.2 Dissolved Iron

Historic concentrations of dissolved iron at MW-17-13 range from 5.9 to 24 mg/L across eight unique sampling events. In general, dissolved iron concentrations show an increasing trend over the 4 year of monitoring data. Borehole water concentrations at BH1-16 and BH2-16 (located north of Coldwater Road)

¹ USGS, October 2000. Arsenic in Ground Water in Genesee County, Michigan, USGS Fact Sheet FS-127-00



reported 19.0 and 7.6 mg/L, respectively. Borehole water concentrations at BH5-16 and BH6-16 (located south of Coldwater Road) were 93.0 and 150 mg/L, respectively.

Historic Site-wide groundwater sampling has not identified iron as a Site COC, other than at location MW-17-13.

A generally increasing trend in dissolved iron concentrations observed at MW-17-13 and both borehole water results from south of Coldwater Road reporting significantly higher results than the results north of Coldwater Road support an off-Site source of iron.

3.1.3 Dissolved Manganese

Historic concentrations of dissolved manganese at MW-17-13 range from 0.15 to 1.7 mg/L across eight unique sampling events. In general, dissolved manganese concentrations at MW-17-13 remain consistent although variable over the 4 year of monitoring data. Borehole water concentrations at BH1-16 and BH2-16 (located north of Coldwater Road) were 2.8 and 6.3 mg/L, respectively. Borehole water concentrations at BH5-16 and BH6-16 (located south of Coldwater Road) were 3.4 and 2.4 mg/L, respectively.

Historic Site-wide groundwater sampling has identified manganese as a Site COC.

No discernable trend in dissolved manganese concentrations observed at MW-17-13 and all borehole water results from south and north of Coldwater Road reporting similar dissolved manganese concentrations support the presence of consistent manganese concentrations in groundwater both on- and off-Site.

3.1.4 Dissolved Lead

Historic concentrations of dissolved lead at MW-17-13 have been non-detect at a reporting limit of 0.003 mg/L or estimated below this reporting limit, across eight unique sampling events. Borehole water concentrations at BH1-16 and BH2-16 (located north of Coldwater Road) were 0.020 and 0.0036 mg/L, respectively. Borehole water concentrations at BH5-16 and BH6-16 (located south of Coldwater Road) were 0.071 and 0.053 mg/L, respectively.

Historic Site-wide groundwater sampling has identified lead as a Site COC; however, with historical results at MW-17-13 at/or below the reporting limit over the previous 4 years of groundwater monitoring, dissolved lead has not been a COC at MW-17-13. In addition, both borehole water results from south of Coldwater Road having higher results than the results to the north of Coldwater Road support an off-site source of lead.

3.2 Groundwater Observations

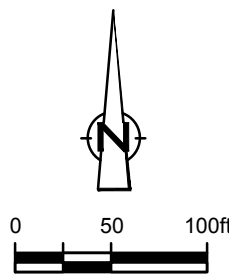
Shallow perched groundwater exists across the Site in limited and discontinuous sand seams. No distinct groundwater flow is anticipated within these zones. As presented in the borehole logs, shallow perched groundwater was encountered in four of six boreholes completed. Locations where groundwater was encountered are presented on Figure 1. Consistent with previous Site investigations shallow groundwater flow at in the vicinity of MW-17-13 is limited due to the discontinuous and perched conditions.



4. Conclusions

The following conclusions can be made based on an evaluation of the available data:

- 1) Off-site borehole water concentrations of dissolved arsenic, iron and lead are higher than those observed on-Site in both borehole water and historic groundwater samples.
- 2) Groundwater concentrations of dissolved arsenic and iron have been increasing at MW-17-13 since the well installation in 2013.
- 3) Historic Site-wide groundwater monitoring has not identified arsenic or iron as Site COCs.
- 4) Naturally occurring arsenic, within groundwater throughout Genesee County, has been detected above the MDEQ residential drinking water criterion of 0.01 mg/L.
- 5) Shallow groundwater flow in the vicinity of MW-17-13 is limited due to the discontinuous and perched conditions.



| chemical_name | Background | A | B | C | D | E |
|-----------------------|------------|-------|------|-------|-----|------|
| Aluminum | 10.5 | 0.05 | 0.3 | 0.05 | 4.1 | - |
| Aluminum (dissolved) | 3.52 | 0.05 | 0.3 | 0.05 | 4.1 | - |
| Arsenic | 0.01 | 0.01 | - | 0.01 | - | 0.01 |
| Arsenic (dissolved) | 0.0072 | 0.01 | - | 0.01 | - | 0.01 |
| Iron | 32.58 | 0.3 | 2.0 | 0.3 | 5.6 | - |
| Iron (dissolved) | 4.0 | 0.3 | 2.0 | 0.3 | 5.6 | - |
| Lead | 0.0035 | 0.004 | - | 0.004 | - | - |
| Lead (dissolved) | 0.003 U | 0.004 | - | 0.004 | - | - |
| Manganese | 0.963 | 0.05 | 0.86 | 0.05 | 2.5 | - |
| Manganese (dissolved) | 0.547 | 0.05 | 0.86 | 0.05 | 2.5 | - |

| Background | Background - Shallow Water Bearing Zone |
|------------|--|
| A | Residential Drinking Water Criteria |
| B | Residential Drinking Water Criteria - Health Based Criteria |
| C | Nonresidential Drinking Water Criteria |
| D | Nonresidential Drinking Water Criteria - Health Based Criteria |
| E | Groundwater/Surface Water Interface (GSI) Criteria |

| | 3/26/2014 | 6/10/2014 | 9/10/2014 | 12/10/2014 | 3/26/2015 | 6/22/2015 | 9/14/2015 | 12/15/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|-------------|-----------|-----------|------------|-------------|-------------------------|-------------------------|-------------|-------------|-------------------------|-------------|
| MW-17-13 | | | | | | | | | | | |
| Arsenic | 0.01 | - | - | - | 0.015 (ACE) | 0.011 (ACE)/0.011 (ACE) | 0.019 (ACE)/0.017 (ACE) | 0.023 (ACE) | - | 0.015 (ACE)/0.014 (ACE) | 0.022 (ACE) |
| Arsenic (dissolved) | 0.012 (ACE) | - | - | - | 0.014 (ACE) | 0.012 (ACE)/0.013 (ACE) | 0.017 (ACE)/0.017 (ACE) | 0.022 (ACE) | 0.019 (ACE) | 0.015 (ACE)/0.016 (ACE) | 0.028 (ACE) |
| Iron | 5.8 | - | - | - | 9.2 | 7.5/7.6 | 11/10 | 11 | - | 14/14 | 12 |
| Iron (dissolved) | 5.9 (ABCD) | - | - | - | 9.2 (ABCD) | 7.5 (ABCD)/7.2 (ABCD) | 10 (ABCD)/10 (ABCD) | 10 (ABCD) | 24 (ABCD) | 14 (ABCD)/14 (ABCD) | 13 (ABCD) |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U/0.003 U | 0.0021 J | - | 0.003 U/0.0022 J | 0.0029 J |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U/0.003 U | 0.0019 J | 0.003 U | 0.003 U/0.003 U | 0.003 U |
| Manganese | 0.6 | 1.6 (ABC) | 1.1 (ABC) | 0.65 | 0.37 | 0.54/0.55 | 0.21/0.2 | 0.15 | - | 1.2 (ABC)/1.2 (ABC) | 0.76 |
| Manganese (dissolved) | 0.58 (AC) | 1.7 (ABC) | 1.2 (ABC) | 0.66 (AC) | 0.39 | 0.55 (AC)/0.53 | 0.21/0.21 | 0.15 | 1.1 (ABC) | 1.2 (ABC)/1.2 (ABC) | 0.69 (AC) |

| BH2-16 | 10/3/2016 |
|-----------------------|-------------|
| Arsenic (dissolved) | 0.012 (ACE) |
| Iron (dissolved) | 7.6 (ABCD) |
| Lead (dissolved) | 0.0036 |
| Manganese (dissolved) | 6.3 (ABCD) |

| BH6-16 | 10/3/2016 |
|-----------------------|------------|
| Arsenic (dissolved) | 0.12 (ACE) |
| Iron (dissolved) | 150 (ABCD) |
| Lead (dissolved) | 0.053 (AC) |
| Manganese (dissolved) | 2.4 (ABC) |

| BH1-16 | 10/3/2016 |
|-----------------------|-------------|
| Arsenic (dissolved) | 0.018 (ACE) |
| Iron (dissolved) | 19 (ABCD) |
| Lead (dissolved) | 0.02 (AC) |
| Manganese (dissolved) | 2.8 (ABCD) |

| BH5-16 | 10/3/2016 |
|-----------------------|-------------|
| Arsenic (dissolved) | 0.056 (ACE) |
| Iron (dissolved) | 93 (ABCD) |
| Lead (dissolved) | 0.071 (AC) |
| Manganese (dissolved) | 3.4 (ABCD) |

| MW-17-13 | 3/26/2014 |
|---------------------|-------------|
| Arsenic | 0.01 |
| Arsenic (dissolved) | 0.012 (ABC) |
| Iron (dissolved) | 5.9 (AB) |
| Lead (dissolved) | - |
| Manganese | 0.6 |

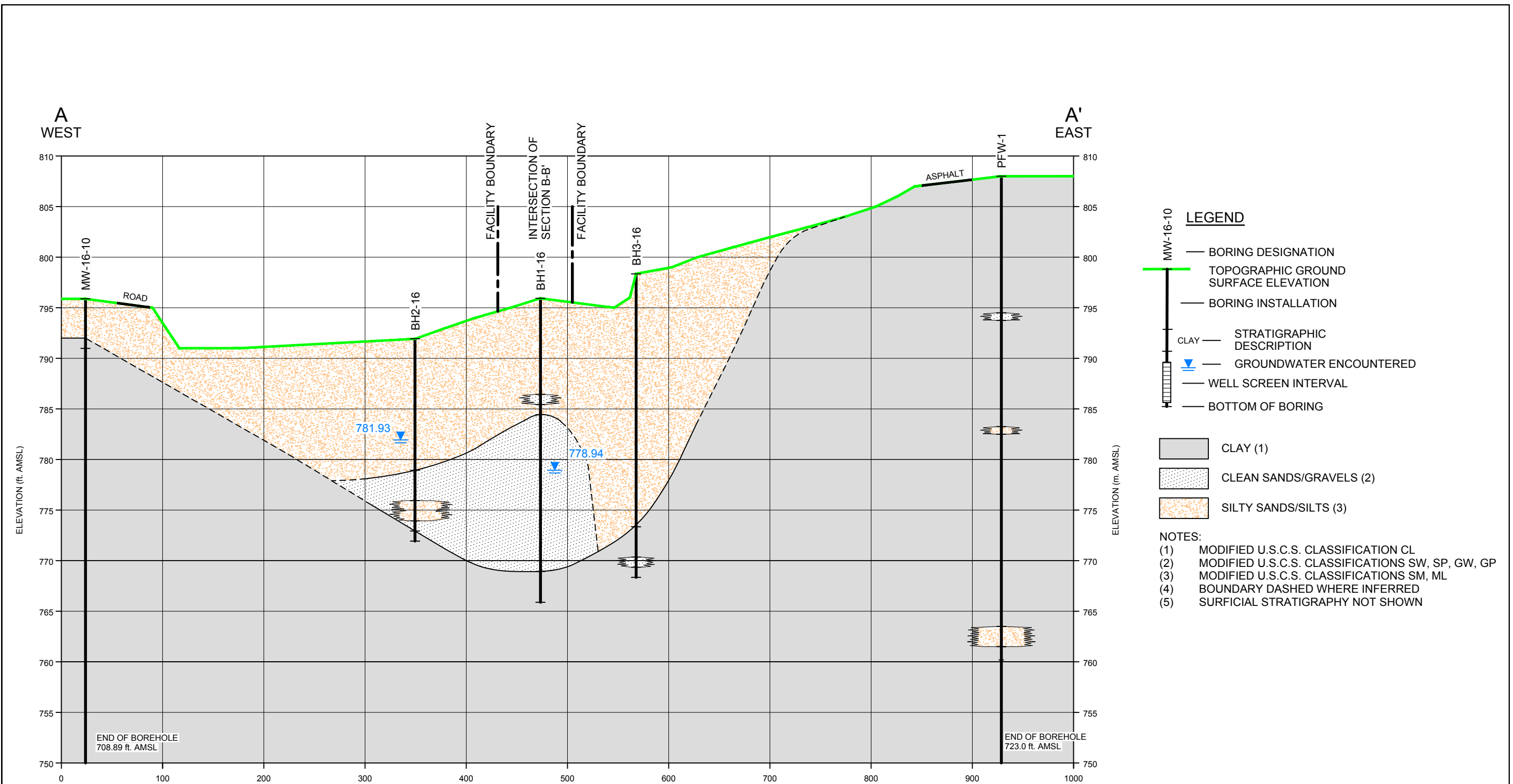
LEGEND

- FACILITY BOUNDARY
- MONITORING WELL LOCATION
- BOREHOLE LOCATION
- BOREHOLE LOCATION (GROUNDWATER ENCOUNTERED)
- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (mg/L)
- PARAMETER NOT ANALYZED
- PARAMETER

- NOTES:**
- THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
 - RESULTS ARE FIRST SCREENED AGAINST SITE-SPECIFIC BACKGROUND VALUES (BACKGROUND); THOSE CONSTITUENTS EXCEEDING BACKGROUND ARE THEN SCREENED AGAINST MDEQ PART 201 CRITERIA.

figure 1
MW-17-13 GROUNDWATER INVESTIGATION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan





LEGEND

- BORING DESIGNATION
- TOPOGRAPHIC GROUND SURFACE ELEVATION
- BORING INSTALLATION
- CLAY — STRATIGRAPHIC DESCRIPTION
- GROUNDWATER ENCOUNTERED
- WELL SCREEN INTERVAL
- BOTTOM OF BORING

CLAY (1)
 CLEAN SANDS/GRAVELS (2)
 SILTY SANDS/SILTS (3)

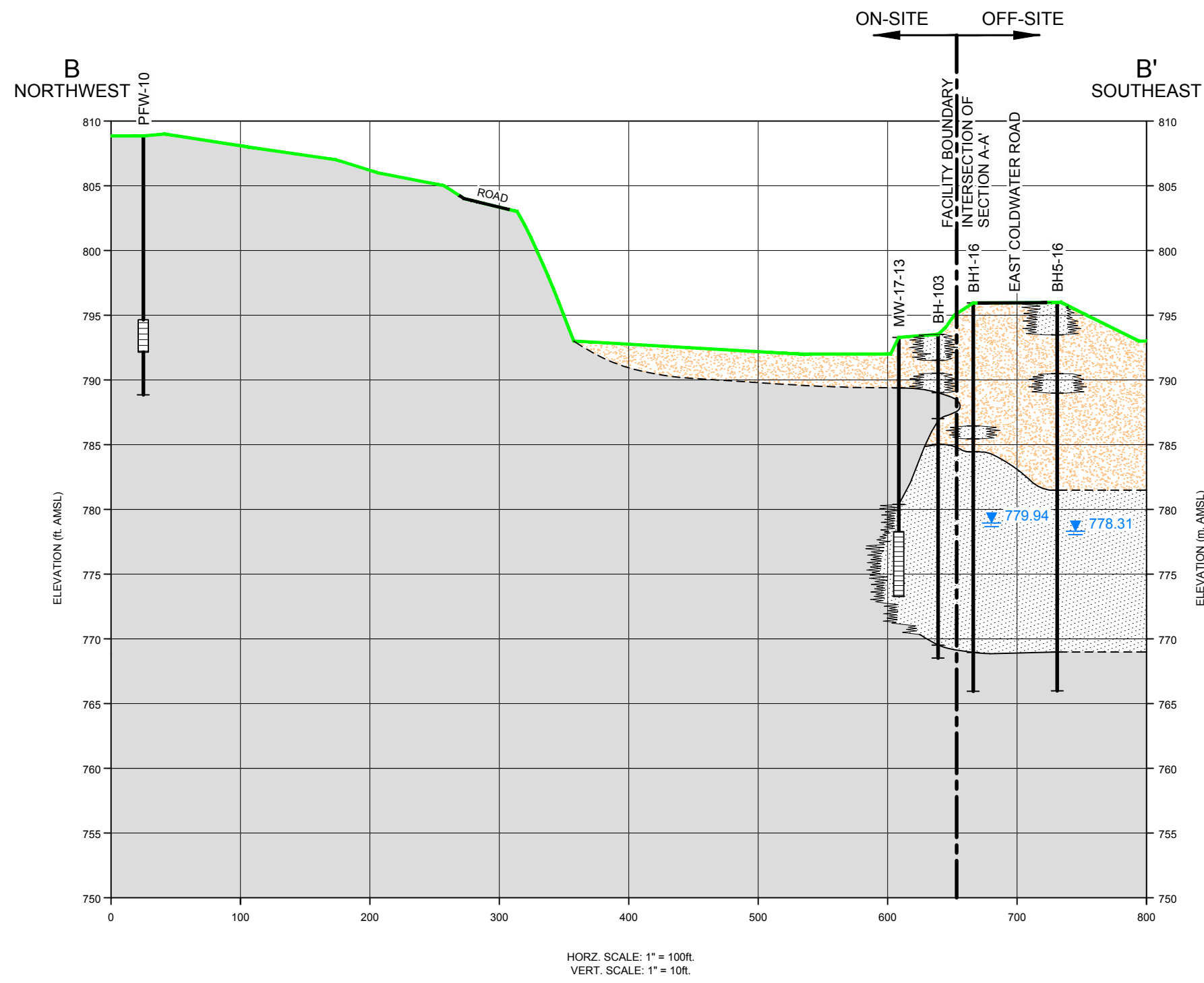
NOTES:

- (1) MODIFIED U.S.C.S. CLASSIFICATION CL
- (2) MODIFIED U.S.C.S. CLASSIFICATIONS SW, SP, GW, GP
- (3) MODIFIED U.S.C.S. CLASSIFICATIONS SM, ML
- (4) BOUNDARY DASHED WHERE INFERRED
- (5) SURFICIAL STRATIGRAPHY NOT SHOWN

HORZ. SCALE: 1" = 100ft.
 VERT. SCALE: 1" = 10ft.

figure 2
 GEOLOGIC CROSS-SECTION A-A'
 MW-17-13 GROUNDWATER INVESTIGATION
 FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
 Genesee Township, Michigan





LEGEND

- MW-16-10 — BORING DESIGNATION
- TOPOGRAPHIC GROUND SURFACE ELEVATION
- BORING INSTALLATION
- CLAY — STRATIGRAPHIC DESCRIPTION
- GROUNDWATER ENCOUNTERED
- WELL SCREEN INTERVAL
- BOTTOM OF BORING

- CLAY (1)
- CLEAN SANDS/GRAVELS (2)
- SILTY SANDS/SILTS (3)

NOTES:

- (1) MODIFIED U.S.C.S. CLASSIFICATION CL
- (2) MODIFIED U.S.C.S. CLASSIFICATIONS SW, SP, GW, GP
- (3) MODIFIED U.S.C.S. CLASSIFICATIONS SM, ML
- (4) BOUNDARY DASHED WHERE INFERRED
- (5) SURFICIAL STRATIGRAPHY NOT SHOWN

figure 3
GEOLOGIC CROSS-SECTION B-B'
MW-17-13 GROUNDWATER INVESTIGATION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



Attachment A Stratigraphic Logs



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS
 PROJECT NUMBER: 12636
 CLIENT: RACER TRUST
 LOCATION: Genesee Township, MI
 COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

HOLE DESIGNATION: BH1-16
 DATE COMPLETED: 3 October 2016
 DRILLING METHOD: Geoprobe
 FIELD PERSONNEL: S. Hoevemeyer

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | |
|-----------------|--|--------------------------|----------|--------|----------|----------|-----------|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE |
| | NORTHING: 580487.7 EASTING: 13306649.83 | GROUND SURFACE 795.94 | | | | | |
| | Topsoil, vegetation | 795.19 | | | | | |
| 2 | SM - SILTY SAND, silt, fine to medium grained sand, moist, trace fine gravel, brown | 793.94 | | | | | |
| 4 | ML - SILT, clay, trace fine grained sand and gravel, medium plasticity, grey, moist | | | | | | |
| 6 | | | | | | | |
| 8 | SM - SILTY SAND, soft, grey, trace gravel | 788.94 | | | | | |
| | - woody debris at 9.0ft BGS | | | | | | |
| 10 | SW - SAND (well graded), trace silt, moist | 786.44 | | | | | |
| | ML - SILT (gray), clay, trace sand and gravel (mottled brown) | 785.44 | | | | | |
| 12 | SW - SAND (well graded), trace silt, trace gravel, tan | 784.44 | | | | | |
| 14 | SP - SAND (poorly graded), medium gravel, gray | 782.94 | | | | | |
| 16 | | | | | | | |
| 18 | - wet (at 778.94 ft AMSL) at 17.0ft BGS | | | ▽ | | | |
| 20 | - brown, wet at 19.5ft BGS | | | | | | |
| 22 | | | | | | | |
| 24 | - trace gravel at 24.0ft BGS | | | | | | |
| 26 | | | | | | | |
| 28 | CL - CLAY, silty, trace sand, gray | 768.94 | | | | | |
| 30 | END OF BOREHOLE @ 30.0ft BGS | 765.94 | | | | | |
| 32 | NOTES: - Groundwater sampled from temporary screen at 26 ft bgs. Sample GW-12636-100316-SSH-4116. | | | | | | |
| 34 | - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▽ 10/3/2016

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA CORP.GDT 13/1/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS
 PROJECT NUMBER: 12636
 CLIENT: RACER TRUST
 LOCATION: Genesee Township, MI
 COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

HOLE DESIGNATION: BH2-16
 DATE COMPLETED: 3 October 2016
 DRILLING METHOD: Geoprobe
 FIELD PERSONNEL: S. Hoevemeyer

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | |
|-----------------|--|---------------------|----------|--------|----------|----------|-----------|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE |
| | NORTHING: 580461.69 EASTING: 13306528.75 GROUND SURFACE | 791.93 | | | | | |
| 2 | Topsoil, vegetation SM - SILTY SAND, trace gravel, dry, hard, brown | 791.27 | | | | | |
| 4 | ML - SILT, clay, little sand, mottled brown/gray, medium plasticity - small 2-inch sand seams at 6.0ft BGS | 787.93 | | | | | |
| 8 | ML - SILT, clay, trace sand and gravel, moist, soft | 783.93 | | | | | |
| 10 | SM - SILTY SAND, wet, brown to tan, fine to medium grained, trace gravel | 781.93 | | | | | |
| 14 | SP - SAND (poorly graded), gray, wet, fine to medium grained, trace silt | 778.93 | | | | | |
| 16 | SM - SILTY SAND, wet, trace gravel, brown/tan | 775.93 | | | | | |
| 18 | GW - GRAVEL (well graded), sand, trace silt, wet | 773.93 | | | | | |
| 20 | CL - CLAY, silty, trace sand/gravel, moist | 772.93 | | | | | |
| 20 | END OF BOREHOLE @ 20.0ft BGS | 771.93 | | | | | |
| 22 | NOTES: - Groundwater sampled from temporary screen. Sample GW-12636-100316-SSH-4216. - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA_CORP.GDT 13/1/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS
 PROJECT NUMBER: 12636
 CLIENT: RACER TRUST
 LOCATION: Genesee Township, MI
 COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

HOLE DESIGNATION: BH3-16
 DATE COMPLETED: 3 October 2016
 DRILLING METHOD: Geoprobe
 FIELD PERSONNEL: S. Hoevemeyer

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | |
|-----------------|---|--------------------------|----------|--------|----------|----------|-----------|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE |
| | NORTHING: 580561.75 EASTING: 13306708.56 | GROUND SURFACE 798.36 | | | | | |
| 2 | Topsoil, vegetation | 797.86 | | | | | |
| | GW - GRAVEL, sand, fine to medium grained, trace silt, dry | 796.36 | | | | | |
| 4 | SM - SILTY SAND, mottled brown/gray, hard, dry | | | | | | |
| | - trace gravel, brown, moist at 4.0ft BGS | | | | | | |
| 8 | - trace gravel, gray, moist at 8.0ft BGS | | | | | | |
| 12 | - black and red spots of color at 12.0ft BGS | | | | | | |
| 16 | - trace gravel, trace clay, mottled brown/gray, hard, dry at 16.0ft BGS | | | | | | |
| 20 | - trace gravel, trace clay, brown, dry at 20.0ft BGS | | | | | | |
| 26 | CL - CLAY, silty, trace sand and gravel, gray, moist | 773.36 | | | | | |
| 28 | SP - SAND (poorly graded), trace silt, fine to medium grained, moist to wet | 770.36 | | | | | |
| 30 | CL - CLAY, silty, gray, moist | 769.36 | | | | | |
| | END OF BOREHOLE @ 30.0ft BGS | 768.36 | | | | | |
| 32 | NOTES: - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | |
| 34 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA_CORP.GDT 13/1/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS

HOLE DESIGNATION: BH4-16

PROJECT NUMBER: 12636

DATE COMPLETED: 3 October 2016

CLIENT: RACER TRUST

DRILLING METHOD: Geoprobe

LOCATION: Genesee Township, MI

FIELD PERSONNEL: S. Hoevemeyer

COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | |
|-----------------|--|--------------------------|----------|--------|----------|----------|-----------|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE |
| | NORTHING: 580377.7 EASTING: 13306564 | GROUND SURFACE 793.81 | | | | | |
| 2 | Topsoil, vegetation | 793.15 | | | | | |
| | FILL - gravel, sandy | 791.81 | | | | | |
| 4 | SM - SILTY SAND, trace gravel, fine to medium grained, mottled brown/gray, hard, dry | | | | | | |
| 6 | - moist, more sand, less silt at 6.0ft BGS | | | | | | |
| 8 | - more silty, with trace clay at 8.0ft BGS | | | | | | |
| 10 | - trace clay and gravel, brown, dry at 10.0ft BGS | | | | | | |
| 12 | CL - CLAY, silty, trace gravel, medium plasticity, gray, dry | 781.81 | | | | | |
| 14 | | | | | | | |
| 16 | | | | | | | |
| 18 | | | | | | | |
| 20 | END OF BOREHOLE @ 20.0ft BGS | 773.81 | | | | | |
| 22 | NOTES: - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | |
| 24 | | | | | | | |
| 26 | | | | | | | |
| 28 | | | | | | | |
| 30 | | | | | | | |
| 32 | | | | | | | |
| 34 | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA_CORP.GDT 13/1/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS
 PROJECT NUMBER: 12636
 CLIENT: RACER TRUST
 LOCATION: Genesee Township, MI
 COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

HOLE DESIGNATION: BH5-16
 DATE COMPLETED: 3 October 2016
 DRILLING METHOD: Geoprobe
 FIELD PERSONNEL: S. Hoevemeyer

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | | |
|-----------------|--|--------------------------|----------|--------|----------|----------|-----------|--|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE | |
| | NORTHING: 580431.1 EASTING: 13306681.59 | GROUND SURFACE 795.97 | | | | | | |
| 2 | Topsoil, vegetation | 795.31 | | | | | | |
| | FILL - gravel, sand, dry | 793.47 | | | | | | |
| 4 | SM - SILTY SAND, trace gravel, gray, dry | 790.47 | | | | | | |
| 6 | SP - SAND (poorly graded), trace silt and gravel, dark almost black, dry | 788.97 | | | | | | |
| 8 | ML - SILT, trace sand and gravel, mottled brown/gray, hard, dry | 781.47 | | | | | | |
| 16 | SP - SAND (poorly graded), trace silt, fine grained, gray, wet to moist - wet (at 779.97 ft AMSL) at 16.0ft BGS | 777.97 | | | | | | |
| 20 | SW - SAND (well graded), sand with gravel, brown, wet | | | | | | | |
| 22 | - gray, wet at 23.0ft BGS | | | | | | | |
| 28 | CL - CLAY, silty, trace sand, medium plasticity, gray, moist | 768.97 | | | | | | |
| 30 | END OF BOREHOLE @ 30.0ft BGS | 765.97 | | | | | | |
| 32 | NOTES: - Groundwater sampled from temporary screen at 26 ft bgs. Sample GW-12636-100316-SSH-4316. | | | | | | | |
| 34 | - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | | |

Backfilled with bentonite and native soil cuttings

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND 10/3/2016

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA CORP.GDT 13/1/17



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: COLDWATER ROAD INDUSTRIAL LANDS
 PROJECT NUMBER: 12636
 CLIENT: RACER TRUST
 LOCATION: Genesee Township, MI
 COORDINATE SYSTEM:: SPCS MI S NAD 83/ NAVD 88, US Survey Feet

HOLE DESIGNATION: BH6-16
 DATE COMPLETED: 3 October 2016
 DRILLING METHOD: Geoprobe
 FIELD PERSONNEL: S. Hoevemeyer

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft AMSL | BOREHOLE | SAMPLE | | | |
|-----------------|--|--------------------------|----------|--------|----------|----------|-----------|
| | | | | NUMBER | INTERVAL | REC (ft) | 'N' VALUE |
| | NORTHING: 580470.21 EASTING: 13306765.4 | GROUND SURFACE 796.53 | | | | | |
| 2 | Topsoil, vegetation FILL - gravel, sand | 796.03 794.03 | | | | | |
| 4 | SM - SILTY SAND, fine grained, mottled brown/gray, firm, moist | 789.53 | | | | | |
| 8 | ML - SILT, trace gravel, little sand (fine grained), soft, moist | 786.53 | | | | | |
| 10 | SP - SAND (poorly graded), trace silt and gravel, fine to medium grained, dry | 783.53 | | | | | |
| 14 | SM - SILTY SAND, trace clay and gravel, gray, firm, dry | 781.53 | | | | | |
| 16 | SP - SAND (poorly graded), trace silt, gray, moist to wet | 779.53 | | | | | |
| 18 | SM - SILTY SAND, fine grained, gray, moist to wet | 778.53 | | | | | |
| 20 | SP - SAND (poorly graded), trace silt, brown/tan, wet | 773.53 | | | | | |
| 24 | CL - CLAY, silty, trace gravel, medium plasticity, gray, moist | 766.53 | | | | | |
| 30 | END OF BOREHOLE @ 30.0ft BGS | | | | | | |
| 32 | NOTES: - Groundwater sampled from temporary screen at 23 ft bgs. Sample GW-12636-100316-SSH-4416. | | | | | | |
| 34 | - Borehole abandoned same day using bentonite and native soil cuttings. | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG - 12636 GEOPROBES (OCT 2016).GPJ CRA CORP.GDT 13/1/17

STRATIGRAPHY LOG (OVERBURDEN)

PROJECT NAME _____
 PROJECT NUMBER 12636
 CLIENT _____
 LOCATION _____

DRILLING CONTRACTOR _____
 DRILLER _____
 SURFACE ELEVATION _____
 WEATHER (A.M.) _____
 (P.M.) _____

HOLE DESIGNATION BH103
 DATE/TIME STARTED 12/5/11
 DATE/TIME COMPLETED _____
 DRILLING METHOD _____
 CRA SUPERVISOR _____

| STRATIGRAPHIC INTERVALS (DEPTHS IN <u>ft</u> /m BGS) | | | SAMPLE DESCRIPTION | SAMPLE DETAILS | | | | | | | S A M P L E # | S A M P L E T H I C K N E S S | P E N E T R A T I O N R E C O R D S P L I T S P O O N B L O W S (R E C O R D N - V A L U E S & R E C O V E R I E S) | S A M P L E I N T E R V A L E | P I D / F I D (ppm) | C H E M I C A L | A N A L Y S I S | G R A I N S I Z E |
|---|--------|--------|---|----------------|----|----|---|---|--|--|---------------------------------|---|---|---|--|--------------------------------------|--------------------------------------|---|
| F R O M | A T | T O | 6" | 6" | 6" | 6" | N | R | | | | | | | | | | |
| | | 0.25 | topsoil | | | | | | | | | | | | | | | |
| | | 1.25 | 2 SP-sand (f.71), fine grained, poorly graded trace fine gravel, brown, dry | | | | | | | | | | | | | | | |
| | | 2 | 3 SM-silty sand, trace fine gravel, fine grained brown moist to dry (f.71) | | | | | | | | | | | | | | | |
| | | 3 | 4.5 SP-sand (f.11) | | | | | | | | | | | | | | | |
| | | 4.5 | 6.5 CL-silty clay, organics, grey to black trace fine sand + gravel, moist to dry | | | | | | | | | | | | | | | |
| | | 6.5 | 8.5 SM-silty sand, fine grained, trace gravel grey, moist to dry | | | | | | | | | | | | | | | |
| | | 8.5 | 10.5 SW-sand, fine to med grained, trace silt, trace fine gravel, dry light brown | | | | | | | | | | | | | | | |
| | | 10.5 | 6P-gravel sand, trace silt, med grained, moist | | | | | | | | | | | | | | | |
| | | 12 | wet, grey brown | | | | | | | | | | | | | | | |
| | | 18 | 18' Ban tan, wet | | | | | | | | | | | | | | | |
| | | 18 | 20 | | | | | | | | | | | | | | | |
| | | 20 | 24 SW-sand, grey, med grained, well graded wet, trace gravel | | | | | | | | | | | | | | | |
| | | 24 | 25 CL-sand, clay, grey, moist, low plasticity | | | | | | | | | | | | | | | |

| | |
|--|---|
| NOTES AND COMMENTS | DEPTH OF BOREHOLE CAVING _____ DEPTH OF FIRST GROUNDWATER ENCOUNTER _____ TOPSOIL THICKNESS _____ |
| | WATER LEVEL IN OPEN BOREHOLE ON COMPLETION _____, AFTER _____ HOURS _____ |
| | COMPLETION DETAILS: _____ |
| NOTE: FOR EACH SPLIT-SPOON SAMPLE, RECORD BLOW COUNTS, N-VALUE, SAMPLE RECOVERY LENGTH, AND SAMPLE INTERVAL. | |
| NOTES: collect H ₂ O sample at 1570, screen set at 14'-18' bgs, turb. 37 NTUs | |





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER PEREGRINE FACILITY
 PROJECT NUMBER: 012636
 CLIENT: MOTORS LIQUIDATION COMPANY
 LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-16-10
 DATE COMPLETED: November 24, 2010
 DRILLING METHOD: ROTOSONIC
 FIELD PERSONNEL: B. WILLIAMS

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | DEPTH ft BGS | MONITORING WELL | SAMPLE | | | | |
|-----------------|---|-----------------|------------------------|--------|----------|---------|-----------|-----------|
| | | | | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
| 0.30 | TOPSOIL | 0.30 | CONCRETE | | | | | |
| 2 | SP-SAND (FILL), fine grained, poorly graded, trace fine gravel, brown, moist | 2.20 | CEMENT/BENTONITE GROUT | 1RS | | 100 | | 0.1 |
| 4 | SW-SAND (FILL), fine and medium sand, trace fine gravel, well graded, brown, moist | 4.90 | 2" PVC WELL CASING | | | | | |
| 6 | CL-SILTY CLAY (FILL), some fine and medium sand, trace fine gravel, mottled, weathered, trace oxidation, brown, moist | 8 | 10" BOREHOLE | | | | | |
| 10 | | 7" STEEL CASING | | | | | | |
| 12 | | 11.00 | | 2RS | | 100 | | 0.0 |
| 14 | | | | | | | | |
| 16 | - some silty sand at 16.5ft BGS | | 6" BOREHOLE | | | | | |
| 18 | | | | | | | | |
| 20 | | | | | | | | |
| 22 | | | | 3RS | | 100 | | 0.0 |
| 24 | | | | | | | | |
| 26 | | | | | | | | |
| 28 | | | | | | | | |
| 30 | | | | | | | | |
| 32 | | | | 4RS | | 100 | | 0.1 |
| 34 | | | | | | | | |

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG_12636.GPJ_CRA_CORP.SPANISH.GDT_12/2/10

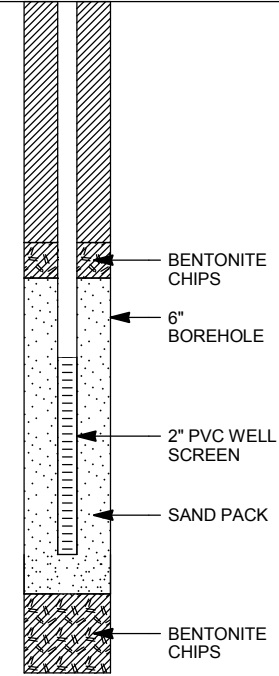


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER PEREGRINE FACILITY
 PROJECT NUMBER: 012636
 CLIENT: MOTORS LIQUIDATION COMPANY
 LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-16-10
 DATE COMPLETED: November 24, 2010
 DRILLING METHOD: ROTOSONIC
 FIELD PERSONNEL: B. WILLIAMS

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | DEPTH ft BGS | MONITORING WELL | SAMPLE | | | | |
|-----------------|--|-----------------|-----------------|--------|----------|---------|-----------|-----------|
| | | | | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) |
| 72 | - wet at 72.0ft BGS | | | 8RS | | 100 | | 0.0 |
| 74 | | | | | | | | |
| 76 | | | | | | | | |
| 78 | | | | | | | | |
| 80 | | | | | | | | |
| 82 | | | | 9RS | | 100 | | 0.0 |
| 84 | CL-SILTY CLAY, trace fine sand, soft, medium plasticity, gray, moist | 84.00 | | | | | | |
| 86 | | | | | | | | |
| 88 | END OF BOREHOLE @ 87.0ft BGS | 87.00 | | | | | | |
| 90 | | | | | | | | |
| 92 | | | | | | | | |
| 94 | | | | | | | | |
| 96 | | | | | | | | |
| 98 | | | | | | | | |
| 100 | | | | | | | | |
| 102 | | | | | | | | |
| 104 | | | | | | | | |



OVERBURDEN LOG_12636.GPJ_CRA_CORP.SPANISH.GDT_12/2/10

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER PEREGRINE FACILITY
 PROJECT NUMBER: 012636
 CLIENT: MOTORS LIQUIDATION COMPANY
 LOCATION: GENESEE TOWNSHIP, MICHIGAN

HOLE DESIGNATION: MW-17-13
 DATE COMPLETED: October 24, 2013
 DRILLING METHOD: GEOPROBE
 FIELD PERSONNEL: E. MICKELSON

| DEPTH ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS | ELEV. ft | MONITORING WELL | SAMPLE | | | | | |
|-----------------|--|---|---------------------------------------|--------|----------|---------|-----------|-----------|--|
| | | | | NUMBER | INTERVAL | REC (%) | 'N' VALUE | PID (ppm) | |
| | NORTHING: 580506.51 EASTING: 13306624.38 | TOP OF CASING TOP OF RISER GROUND SURFACE | 797.11 796.46 793.28 | | | | | | |
| 2 | TOPSOIL, vegetation ML-SILT, few fine sand, compact, fine grained, brown, moist | 793.08 | CONCRETE BENTONITE CHIPS | 1GP | | 10 | | 0.1 | |
| 4 | CL-SILTY CLAY, trace fine sand, firm, low plasticity, dark gray, moist - increase in sand content, soft, organic rich at 4.8ft BGS - trace fine gravel, light brown to light gray, mottling at 6.2ft BGS | 789.38 | 8-1/2" BOREHOLE 2" PVC WELL CASING | 2GP | | 85 | | 0.0 | |
| 6 | | | | | | | | 0.1 | |
| 8 | | | | | | | | 0.2 | |
| 10 | | | | | | | | 0.1 | |
| 12 | - trace roots from 11.4 to 11.7ft BGS | | | 3GP | | 75 | | 0.1 | |
| 14 | SP-SAND, trace silt, few fine gravel, compact, fine to medium grained, brown, wet | 780.38 | SAND PACK 2" PVC WELL SCREEN | 4GP | | 75 | | 0.2 | |
| 16 | | | | | | | | 0.0 | |
| 18 | - no gravel, fine grained, wet from 17.2 to 18.0ft BGS - no gravel, fine grained, wet at 18.5ft BGS | | NATURAL COLLAPSE | | | | | | |
| 20 | SM-SILTY SAND, compact, fine grained, gray, wet | 774.28 | | | | | | | |
| 22 | END OF BOREHOLE @ 20.0ft BGS | 773.28 | | | | | | | |
| 24 | | | | | | | | | |
| 26 | | | | | | | | | |
| 28 | | | | | | | | | |
| 30 | | | | | | | | | |
| 32 | | | | | | | | | |
| 34 | | | | | | | | | |

WELL DETAILS
 Screened interval:
 780.28 to 775.28ft
 13.00 to 18.00ft BGS
 Length: 5ft
 Diameter: 2in
 Slot Size: 0.010
 Material: PVC
 Seal:
 792.28 to 782.28ft
 1.00 to 11.00ft BGS
 Material: BENTONITE CHIPS
 Sand Pack:
 782.28 to 775.28ft
 11.00 to 18.00ft BGS
 Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 012636-WI.GPJ CRA_CORP.GDT 6/9/14



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

BORING NO. PFW-1
 SHEET NO. 1 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

| SAMPLING NOTES | | | | | DEPTH | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|--|-------------------------|
| INTERVAL | | RECOVERY | | PID | | | |
| NO. | TYPE | N | IN | | | | |
| 1 | SS | 17 | 16 | 0.6 | 0 | Asphalt, broken. Fill: well-graded sand with gravel, little silt, little clay, brown, wet. | |
| 2 | SS | 15 | 18 | 0 | 0 | SANDY LEAN CLAY (CL), little fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some mottling to grayish brown and yellowish brown, moist, (hard Pp > 4.5) (Glacial Till). As above (CL), very stiff from 2 to 2.5 ft. | |
| 3 | SS | 16 | 24 | 0 | 5 | As above (CL), fractured, very stiff (Pp=3.4) below 5.7 feet. | |
| 4 | SS | 15 | 24 | 0 | | As above (CL), becoming mottled brown, dark grayish brown and dark gray 10YR 4/1 - 4/2. | |
| 5 | SS | 22 | 24 | 0 | | As above (CL), wet at sand partings @ 8.5' and 9.1', brown, trace fractures. | |
| 6 | SS | 16 | 24 | 0 | 10 | | |

GENERAL NOTES
 DATE STARTED 12 MAR 97
 DATE COMPLETED 13 MAR 97
 RIG CME 750 ATV
 CREW CHIEF R. BENNETT
 LOGGED DPR CHECKED LPL

WATER LEVEL OBSERVATIONS
 WHILE DRILLING 78.0 ft. bgl
 AT COMPLETION _____
 AFTER DRILLING _____
 CAVE-IN: DATE/TIME _____ DEPTH _____
 WATER: DATE/TIME _____ DEPTH _____



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

BORING NO. PFW-1
 SHEET NO. 2 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

| SAMPLING NOTES | | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | DEPTH | | |
| NO. | TYPE | N | IN | | | | |
| 7 | SS | 15 | 24 | | | As above (CL), stiff to very stiff, (Pp = 1.6 to 2.7). | |
| | | | | | 15 | As above (CL). WELL-GRADED SAND WITH SILT (SW), fine to medium, trace gravel, few clay, brown 10YR 4/3, moist, pieces of clay till. | |
| | | | | | | SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3, moist, stiff to very stiff (Glacial Till). | |
| 8 | SS | 15 | 24 | 0 | | As above (CL), hard (Pp > 4). | |
| | | | | | 20 | As above (CL). | |
| 9 | SS | 19 | 24 | 0 | | LEAN CLAY (CL), gradational areas of | |



LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-1
 SHEET NO. 3 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

| SAMPLING NOTES | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | | |
| NO. | TYPE | N | IN | DEPTH | | |
| 10 | SS | 40 | 24 | 0 | <p>25</p> <p>clayey silt and sandy silt, slightly plastic, mottled brown, dark yellowish brown, and brownish gray, hard, fractured, friable, (Glacial Till). SILTY SAND (SM), fine, brown, wet.</p> <hr style="border-top: 1px dashed black;"/> <p>30</p> <p>LEAN CLAY (CL), slightly plastic, brown with dark yellowish brown and black precipitate along fractures, mostly dark grayish brown below 29.6', moist to wet along silt partings, very hard, faint lamination (Glaciolacustrine).</p> <p>35</p> | |



LOG OF TEST BORING

F-203 (R 01-87)

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

BORING NO. PFW-1
 SHEET NO. 4 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

| SAMPLING NOTES | | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | DEPTH | | |
| NO. | TYPE | N | IN | | | | |
| 11 | SS | 20 | 0 | | | As above (CL), gray 10YR 5/1 (based on cuttings). | |
| 12 | SS | 17 | 24 | 0.6 | | As above (CL), wet along silt partings, very stiff (Pp = 3.2 to 3.7). | |
| | | | | | 45 | SILT (ML), grading from above clay, nonplastic, gray 10YR 5/1, moist, very stiff. | |



LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-1
 SHEET NO. 6 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

| SAMPLING NOTES | | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | DEPTH | | |
| NO. | TYPE | N | IN | | | | |
| 14 | SS | 16 | 24 | 0.2 | 65 | As above (CL), abundant silt partings. | |
| | | | | | 70 | | |
| | | | | | | <--- Drillers note change in resistance @ 71 feet. | |
| 15 | SS | 88 | 18 | | 75 | POORLY-GRADED SAND (SP), fine, trace silt, light gray 10YR 7/1, moist to dry, faint stratification. | |
| | | | | | | | |




LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-1
 SHEET NO. 7 OF 7
 PROJECT NO. 4036.05
 INSTALLATION 3-13-97
 SURFACE ELEV. 99.6
 BOREHOLE DIA. 8 IN.

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

| SAMPLING NOTES | | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | DEPTH | | |
| NO. | TYPE | N | IN | | | | |
| 16 | SS | 23 | 18 | | ▽ | As above (SP), some medium sand, gray 10YR 6/1, wet. | |
| 17 | SS | 40 | 24 | | 80 | | |
| | | | | | 85 | LEAN CLAY (CL). End of boring at 85 feet. | |

| | | | | |
|---|---------------------------------------|--|--|--------------------------------|
|  | LOG OF TEST BORING | | | BORING NO. <u>PFW-10</u> |
| | F-203 (R 01-87) | | | SHEET NO. <u>1</u> OF <u>2</u> |
| | PROJECT NAME <u>PEREGRINE FLINT</u> | | | PROJECT NO. <u>4036.05</u> |
| | LOCATION <u>FLINT, MICHIGAN</u> | | | INSTALLATION <u>3-20-97</u> |
| | CONTRACTOR <u>STEARNS DRILLING CO</u> | | | SURFACE ELEV. <u>100.5</u> |
| | DRILLING METHOD <u>4.25" HSA</u> | | | BOREHOLE DIA. <u>8 IN.</u> |

| SAMPLING NOTES | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|----------|----|-----|-------|---|---|
| INTERVAL | RECOVERY | | PID | DEPTH | | |
| NO. TYPE | N | IN | | | | |
| 1 | SS | 11 | 15 | 0.1 | /// | Asphalt. |
| 2 | SS | 12 | 20 | 0.2 | / / / | <p>Fill: fine to medium sand, little coarse gravel, dark yellowish brown, moist to wet.</p> <p>SANDY LEAN CLAY (CL), some fine to coarse sand, few fine to coarse gravel, slightly plastic, brown 10YR 4/3 with some gray mottling along fractures, moist, hard (Pp > 4.5) (Glacial Till).</p> <p>As above (CL), very dark gray 10YR 3/1 to olive brown 2.5Y 3/6 to grayish brown 10YR 4/2, stiff to very stiff (Pp = 1.5 to 2.5).</p> <p>As above (CL), brown 10YR 4/3, hard (Pp = 4.4) below 5 feet.</p> |
| 3 | SS | 18 | 24 | 0 | / / / | As above (CL), less gray mottling below 7 feet. |
| 4 | SS | 29 | 24 | 0 | / / / | As above (CL), (Pp = 4.0 to 4.5), fracture from 9.2 to 9.8 ft. |
| 5 | SS | 29 | 24 | 0 | / / / | As above (CL), fracture 11.5 to 11.8'. |
| 6 | SS | 24 | 24 | 0 | / / / | |

GENERAL NOTES

DATE STARTED 20 MAR 97

DATE COMPLETED 20 MAR 97

RIG CME LC 60

CREW CHIEF M. HEFFERAN

LOGGED DPR CHECKED LPL

WATER LEVEL OBSERVATIONS

WHILE DRILLING ∇ 13.8 ft. bgl

AT COMPLETION ∇ _____

AFTER DRILLING _____

CAVE-IN: DATE/TIME _____ DEPTH _____

WATER: DATE/TIME _____ DEPTH _____



LOG OF TEST BORING

F-203 (R 01-87)

BORING NO. PFW-10
 SHEET NO. 2 OF 2
 PROJECT NO. 4036.05
 INSTALLATION 3-20-97
 SURFACE ELEV. 100.5
 BOREHOLE DIA. 8 IN.

PROJECT NAME PEREGRINE FLINT
 LOCATION FLINT, MICHIGAN
 CONTRACTOR STEARNS DRILLING CO
 DRILLING METHOD 4.25" HSA

| SAMPLING NOTES | | | | | | VISUAL CLASSIFICATION AND GENERAL OBSERVATIONS | GENERAL WELL CONSTRUCT. |
|----------------|------|----------|----|-----|-------|---|-------------------------------|
| INTERVAL | | RECOVERY | | PID | DEPTH | | |
| NO. | TYPE | N | IN | | | | |
| 7 | SS | 24 | 22 | 0 | | As above (CL), areas of dark grayish brown below 12.2 ft, very stiff (Pp = 2.5 to 3.5). | |
| 8 | SS | 19 | 24 | 0 | ▽ | <--- Wet sand parting at 13.8 feet. | |
| | | | | | 15 | As above (CL), dark gray 10YR 4/1, stiff (Pp = 1.7). | |
| 9 | SS | 14 | 24 | 0 | | As above (CL). | |
| 10 | SS | 13 | 24 | 0 | | As above (CL). | |
| | | | | | 20 | End of boring at 20 feet. | |

Attachment B Laboratory Analytical Report

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: 240-70333-1

Client Project/Site: 12636, RACER Peregrine

For:

GHD Services Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

10/10/2016 1:37:18 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com



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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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Case Narrative

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Job ID: 240-70333-1

Laboratory: TestAmerica Canton

Narrative

**Job Narrative
240-70333-1**

Comments

No additional comments.

Receipt

The samples were received on 10/4/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

Metals

Method(s) 200.7 Rev 4.4, 6010B: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: GW-12636-100316-SSH-4116 (240-70333-1), GW-12636-100316-SSH-4216 (240-70333-2), GW-12636-100316-SSH-4316 (240-70333-3) and GW-12636-100316-SSH-4416 (240-70333-4). The continuing calibration blanks and method blanks may not support the lower PQL.

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



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| 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) |

Sample Summary

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 240-70333-1 | GW-12636-100316-SSH-4116 | Water | 10/03/16 09:00 | 10/04/16 09:30 |
| 240-70333-2 | GW-12636-100316-SSH-4216 | Water | 10/03/16 09:45 | 10/04/16 09:30 |
| 240-70333-3 | GW-12636-100316-SSH-4316 | Water | 10/03/16 12:25 | 10/04/16 09:30 |
| 240-70333-4 | GW-12636-100316-SSH-4416 | Water | 10/03/16 14:00 | 10/04/16 09:30 |

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Detection Summary

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Client Sample ID: GW-12636-100316-SSH-4116

Lab Sample ID: 240-70333-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Arsenic | 18 | | 5.0 | 3.3 | ug/L | 1 | | 6010B | Dissolved |
| Iron | 19000 | | 100 | 25 | ug/L | 1 | | 6010B | Dissolved |
| Manganese | 2800 | | 15 | 5.1 | ug/L | 1 | | 6010B | Dissolved |
| Lead | 20 | | 3.0 | 1.9 | ug/L | 1 | | 6010B | Dissolved |

Client Sample ID: GW-12636-100316-SSH-4216

Lab Sample ID: 240-70333-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Arsenic | 12 | | 5.0 | 3.3 | ug/L | 1 | | 6010B | Dissolved |
| Iron | 7600 | | 100 | 25 | ug/L | 1 | | 6010B | Dissolved |
| Manganese | 6300 | | 15 | 5.1 | ug/L | 1 | | 6010B | Dissolved |
| Lead | 3.6 | | 3.0 | 1.9 | ug/L | 1 | | 6010B | Dissolved |

Client Sample ID: GW-12636-100316-SSH-4316

Lab Sample ID: 240-70333-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Arsenic | 56 | | 5.0 | 3.3 | ug/L | 1 | | 6010B | Dissolved |
| Iron | 93000 | | 100 | 25 | ug/L | 1 | | 6010B | Dissolved |
| Manganese | 3400 | | 15 | 5.1 | ug/L | 1 | | 6010B | Dissolved |
| Lead | 71 | | 3.0 | 1.9 | ug/L | 1 | | 6010B | Dissolved |

Client Sample ID: GW-12636-100316-SSH-4416

Lab Sample ID: 240-70333-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| Arsenic | 120 | | 5.0 | 3.3 | ug/L | 1 | | 6010B | Dissolved |
| Iron | 150000 | | 100 | 25 | ug/L | 1 | | 6010B | Dissolved |
| Manganese | 2400 | | 15 | 5.1 | ug/L | 1 | | 6010B | Dissolved |
| Lead | 53 | | 3.0 | 1.9 | ug/L | 1 | | 6010B | Dissolved |

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

| Method | Method Description | Protocol | Laboratory |
|--------|--------------------|----------|------------|
| 6010B | Metals (ICP) | 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



Client Sample Results

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-100316-SSH-4116

Date Collected: 10/03/16 09:00

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-1

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 18 | | 5.0 | 3.3 | ug/L | | 10/05/16 14:00 | 10/06/16 19:35 | 1 |
| Iron | 19000 | | 100 | 25 | ug/L | | 10/05/16 14:00 | 10/06/16 19:35 | 1 |
| Manganese | 2800 | | 15 | 5.1 | ug/L | | 10/05/16 14:00 | 10/06/16 19:35 | 1 |
| Lead | 20 | | 3.0 | 1.9 | ug/L | | 10/05/16 14:00 | 10/06/16 19:35 | 1 |

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-100316-SSH-4216

Date Collected: 10/03/16 09:45

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-2

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 12 | | 5.0 | 3.3 | ug/L | | 10/05/16 14:00 | 10/06/16 19:40 | 1 |
| Iron | 7600 | | 100 | 25 | ug/L | | 10/05/16 14:00 | 10/06/16 19:40 | 1 |
| Manganese | 6300 | | 15 | 5.1 | ug/L | | 10/05/16 14:00 | 10/06/16 19:40 | 1 |
| Lead | 3.6 | | 3.0 | 1.9 | ug/L | | 10/05/16 14:00 | 10/06/16 19:40 | 1 |

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-100316-SSH-4316

Date Collected: 10/03/16 12:25

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-3

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 56 | | 5.0 | 3.3 | ug/L | | 10/05/16 14:00 | 10/06/16 19:44 | 1 |
| Iron | 93000 | | 100 | 25 | ug/L | | 10/05/16 14:00 | 10/06/16 19:44 | 1 |
| Manganese | 3400 | | 15 | 5.1 | ug/L | | 10/05/16 14:00 | 10/06/16 19:44 | 1 |
| Lead | 71 | | 3.0 | 1.9 | ug/L | | 10/05/16 14:00 | 10/06/16 19:44 | 1 |

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-100316-SSH-4416

Date Collected: 10/03/16 14:00

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-4

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 120 | | 5.0 | 3.3 | ug/L | | 10/05/16 14:00 | 10/06/16 19:49 | 1 |
| Iron | 150000 | | 100 | 25 | ug/L | | 10/05/16 14:00 | 10/06/16 19:49 | 1 |
| Manganese | 2400 | | 15 | 5.1 | ug/L | | 10/05/16 14:00 | 10/06/16 19:49 | 1 |
| Lead | 53 | | 3.0 | 1.9 | ug/L | | 10/05/16 14:00 | 10/06/16 19:49 | 1 |

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Metals

Prep Batch: 249966

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-------------------|--------|--------|------------|
| 240-70333-1 | GW-12636-100316-SSH-4116 | Dissolved | Water | 3005A | |
| 240-70333-2 | GW-12636-100316-SSH-4216 | Dissolved | Water | 3005A | |
| 240-70333-3 | GW-12636-100316-SSH-4316 | Dissolved | Water | 3005A | |
| 240-70333-4 | GW-12636-100316-SSH-4416 | Dissolved | Water | 3005A | |
| MB 240-249966/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 240-249966/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Analysis Batch: 250164

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------|-------------------|--------|--------|------------|
| 240-70333-1 | GW-12636-100316-SSH-4116 | Dissolved | Water | 6010B | 249966 |
| 240-70333-2 | GW-12636-100316-SSH-4216 | Dissolved | Water | 6010B | 249966 |
| 240-70333-3 | GW-12636-100316-SSH-4316 | Dissolved | Water | 6010B | 249966 |
| 240-70333-4 | GW-12636-100316-SSH-4416 | Dissolved | Water | 6010B | 249966 |
| MB 240-249966/1-A | Method Blank | Total Recoverable | Water | 6010B | 249966 |
| LCS 240-249966/2-A | Lab Control Sample | Total Recoverable | Water | 6010B | 249966 |

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-249966/1-A
Matrix: Water
Analysis Batch: 250164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 249966

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 5.0 | U | 5.0 | 3.3 | ug/L | | 10/05/16 14:00 | 10/06/16 10:42 | 1 |
| Iron | 100 | U | 100 | 25 | ug/L | | 10/05/16 14:00 | 10/06/16 10:42 | 1 |
| Manganese | 15 | U | 15 | 5.1 | ug/L | | 10/05/16 14:00 | 10/06/16 10:42 | 1 |
| Lead | 3.0 | U | 3.0 | 1.9 | ug/L | | 10/05/16 14:00 | 10/06/16 10:42 | 1 |

Lab Sample ID: LCS 240-249966/2-A
Matrix: Water
Analysis Batch: 250164

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 249966

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 2000 | 2070 | | ug/L | | 104 | 80 - 120 |
| Iron | 1000 | 1030 | | ug/L | | 103 | 80 - 120 |
| Manganese | 500 | 522 | | ug/L | | 104 | 80 - 120 |
| Lead | 500 | 487 | | ug/L | | 97 | 80 - 120 |

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

Client Sample ID: GW-12636-100316-SSH-4116

Date Collected: 10/03/16 09:00

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep | 3005A | | | 249966 | 10/05/16 14:00 | AJC | TAL CAN |
| Dissolved | Analysis | 6010B | | 1 | 250164 | 10/06/16 19:35 | KLC | TAL CAN |

Client Sample ID: GW-12636-100316-SSH-4216

Date Collected: 10/03/16 09:45

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep | 3005A | | | 249966 | 10/05/16 14:00 | AJC | TAL CAN |
| Dissolved | Analysis | 6010B | | 1 | 250164 | 10/06/16 19:40 | KLC | TAL CAN |

Client Sample ID: GW-12636-100316-SSH-4316

Date Collected: 10/03/16 12:25

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep | 3005A | | | 249966 | 10/05/16 14:00 | AJC | TAL CAN |
| Dissolved | Analysis | 6010B | | 1 | 250164 | 10/06/16 19:44 | KLC | TAL CAN |

Client Sample ID: GW-12636-100316-SSH-4416

Date Collected: 10/03/16 14:00

Date Received: 10/04/16 09:30

Lab Sample ID: 240-70333-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Dissolved | Prep | 3005A | | | 249966 | 10/05/16 14:00 | AJC | TAL CAN |
| Dissolved | Analysis | 6010B | | 1 | 250164 | 10/06/16 19:49 | KLC | TAL CAN |

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
 Project/Site: 12636, RACER Peregrine

TestAmerica Job ID: 240-70333-1

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 | 04-30-17 |
| Connecticut | State Program | 1 | PH-0590 | 12-31-17 |
| Florida | NELAP | 4 | E87225 | 06-30-17 |
| Illinois | NELAP | 5 | 200004 | 07-31-17 |
| Kansas | NELAP | 7 | E-10336 | 01-31-17 |
| Kentucky (UST) | State Program | 4 | 58 | 02-23-17 |
| Kentucky (WW) | State Program | 4 | 98016 | 12-31-16 * |
| Minnesota | NELAP | 5 | 039-999-348 | 12-31-16 * |
| Minnesota (Petrofund) | State Program | 1 | 3506 | 07-31-17 |
| Nevada | State Program | 9 | OH-000482008A | 07-31-17 |
| New Jersey | NELAP | 2 | OH001 | 06-30-17 |
| New York | NELAP | 2 | 10975 | 03-31-17 |
| Ohio VAP | State Program | 5 | CL0024 | 09-14-17 |
| Oregon | NELAP | 10 | 4062 | 02-23-17 |
| Pennsylvania | NELAP | 3 | 68-00340 | 08-31-17 |
| Texas | NELAP | 6 | T104704517-15-5 | 08-31-17 |
| USDA | Federal | | P330-13-00319 | 11-26-16 * |
| Virginia | NELAP | 3 | 460175 | 09-14-17 |
| Washington | State Program | 10 | C971 | 01-12-17 |
| West Virginia DEP | State Program | 3 | 210 | 12-31-16 * |
| Wisconsin | State Program | 5 | 999518190 | 08-31-17 |

* Certification renewal pending - certification considered valid.



TestAmerica Canton Sample Receipt Form/Narrative

Login # : 70333

Canton Facility

Client GAD Site Name _____ Cooler unpacked by: [Signature]

Cooler Received on 10/4/16 Opened on 10/4/16

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

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

TestAmerica Cooler # _____ 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 See Multiple Cooler Form
 IR GUN# IR-8 (CF +0.4 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.6 °C
 IR GUN #36 (CF +1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? 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 person(s) who collected the samples 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. Are these work share samples? Yes No
 If yes, Questions 11-15 have been checked at the originating laboratory.
 11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC574756
 12. Were VOAs on the COC? Yes No
 13. Were air bubbles >6 mm in any VOA vials? Yes No NA
 14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 15. Was a LL Hg or Me Hg trip blank present? Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
- Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

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): _____

Temperature readings: _____

| <u>Client Sample ID</u> | <u>Lab ID</u> | <u>Container Type</u> | <u>Container</u> | <u>Preservative</u> | <u>Lot #</u> |
|--------------------------|---------------|----------------------------------|------------------|---------------------|--------------|
| | | | <u>pH</u> | <u>Added (mls)</u> | |
| GW-12636-100316-SSH-4116 | 240-70333-A-1 | Plastic 500ml - w/ Nitric - Dis. | <2 | | |
| GW-12636-100316-SSH-4216 | 240-70333-A-2 | Plastic 500ml - w/ Nitric - Dis. | <2 | | |
| GW-12636-100316-SSH-4316 | 240-70333-A-3 | Plastic 500ml - w/ Nitric - Dis. | <2 | | |
| GW-12636-100316-SSH-4416 | 240-70333-A-4 | Plastic 500ml - w/ Nitric - Dis. | <2 | | |

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Attachment C

Summary of Groundwater Monitoring Results

| PFW-9 | 3/26/2014 | 6/9/2014 | 9/9/2014 | 12/9/2014 | 3/27/2015 | 6/23/2015 | 9/17/2015 | 12/16/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|-----------|----------|----------|-----------|-----------|-----------|-----------|------------|-----------------|-----------|-----------|
| Arsenic | 0.005 U | - | - | - | 0.005 U | - | - | - | 0.005 U/0.005 U | - | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.005 U | - | - | - | 0.005 U/0.005 U | - | - |
| Iron | 0.084 J | - | - | - | 0.1 U | - | - | - | 0.1 U/0.1 U | - | - |
| Iron (dissolved) | 0.21 | - | - | - | 0.1 U | - | - | - | 0.1 U/0.1 U | - | - |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.005 U | - |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.005 U | - |
| Manganese | 0.0028 J | 0.015 U | 0.21 | 0.022 | 0.015 U | 0.00094 J | 0.0056 J | 0.0018 J | 0.015 U/0.015 U | 0.049 | - |
| Manganese (dissolved) | 0.0041 J | 0.0011 J | 0.22 | 0.023 | 0.015 U | 0.0012 J | 0.0057 J | 0.015 U | 0.015 U/0.015 U | 0.048 | 0.14 |

| MW-17-13 | 3/26/2014 | 6/10/2014 | 9/10/2014 | 12/10/2014 | 3/26/2015 | 6/22/2015 | 9/14/2015 | 12/15/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|-------------|-----------|-----------|------------|-------------|-------------------------|-------------------------|-------------|-------------|-------------------------|-------------|
| Arsenic | 0.01 | - | - | - | 0.015 (ACE) | 0.011 (ACE)/0.011 (ACE) | 0.019 (ACE)/0.017 (ACE) | 0.023 (ACE) | 0.019 (ACE) | 0.015 (ACE)/0.014 (ACE) | 0.022 (ACE) |
| Arsenic (dissolved) | 0.012 (ACE) | - | - | - | 0.014 (ACE) | 0.012 (ACE)/0.013 (ACE) | 0.017 (ACE)/0.017 (ACE) | 0.022 (ACE) | 0.019 (ACE) | 0.015 (ACE)/0.016 (ACE) | 0.028 (ACE) |
| Iron | 5.8 | - | - | - | 9.2 | 7.5/7.6 | 11/10 | 11 | 14/14 | 14/14 | 12 |
| Iron (dissolved) | 5.9 (ABCD) | - | - | - | 9.2 (ABCD) | 7.5 (ABCD)/7.2 (ABCD) | 10 (ABCD)/10 (ABCD) | 10 (ABCD) | 24 (ABCD) | 14 (ABCD)/14 (ABCD) | 13 (ABCD) |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U/0.003 U | 0.0021 J | - | 0.003 U/0.0022 J | 0.0029 J |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U/0.003 U | 0.0019 J | 0.003 U | 0.003 U/0.003 U | 0.003 U |
| Manganese | 0.6 | 1.6 (ABC) | 1.1 (ABC) | 0.65 | 0.37 | 0.54/0.55 | 0.21/0.21 | 0.15 | - | 1.2 (ABC)/1.2 (ABC) | 0.76 |
| Manganese (dissolved) | 0.58 (AC) | 1.7 (ABC) | 1.2 (ABC) | 0.66 (AC) | 0.39 | 0.55 (AC)/0.53 | - | 0.15 | - | 1.2 (ABC)/1.2 (ABC) | 0.69 (AC) |

| PFW-2 | 3/26/2014 | 6/9/2014 | 9/9/2014 | 12/9/2014 | 3/27/2015 | 6/23/2015 | 9/17/2015 | 12/16/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|--------------|-----------|-----------|-----------|------------|-----------|-----------|------------|------------|---------------------|---------------------|
| Arsenic | 0.005 U | - | - | - | 0.0029 J | - | - | - | - | - | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.005 U | - | - | - | 0.005 U | - | - |
| Iron | 1.3 | - | - | - | 1.1 | - | - | - | 1.2 | - | - |
| Iron (dissolved) | 0.23 | - | - | - | 0.99 | - | - | - | - | - | - |
| Lead | 0.003 U | 0.0023 J | 0.003 U | 0.0037 | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.0022 J/0.005 U | - |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.0022 J/0.005 U | - |
| Manganese | 0.66 J | 1.5 (ABC) | 1.6 (ABC) | 0.84 | 0.76 | 1.7 (ABC) | 1.9 (ABC) | 0.78 | 1.1 (ABC) | 1.8 (ABC)/1.8 (ABC) | - |
| Manganese (dissolved) | 0.97 J (ABC) | 1.5 (ABC) | 1.6 (ABC) | 0.81 (AC) | 0.87 (ABC) | 1.6 (ABC) | 1.7 (ABC) | 0.92 (ABC) | 0.95 (ABC) | 1.1 (ABC) | 1.8 (ABC)/1.8 (ABC) |

| MW-1 | 3/26/2014 | 3/27/2015 | 3/21/2016 |
|-----------------------|-----------|-----------|-----------|
| Arsenic | 0.005 U | 0.005 U | 0.003 J |
| Arsenic (dissolved) | 0.005 U | 0.005 U | 0.003 J |
| Iron | 0.55 | 0.2 | 0.24 |
| Iron (dissolved) | 0.1 U | 0.1 U | - |
| Lead | 0.0034 | 0.003 U | 0.003 U |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U |
| Manganese | 0.038 | 0.1 | - |
| Manganese (dissolved) | 0.01 J | 0.018 | 0.33 |

| MW-4-02 | 3/27/2014 | 6/10/2014 | 9/9/2014 | 12/9/2014 | 3/25/2015 | 6/22/2015 | 9/14/2015 | 12/15/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| Arsenic | 0.005 U | - | - | - | 0.005 U | - | - | - | 0.0036 J | - | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.005 U | - | - | - | 0.005 U | - | - |
| Iron | 0.15 | - | - | - | 0.1 U | - | - | - | 0.1 U | - | - |
| Iron (dissolved) | 0.1 U | - | - | - | 0.037 J | - | - | - | 0.1 U | - | - |
| Lead | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.005 U | 0.0023 J |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.0027 J | 0.005 U |
| Manganese | 0.013 J | 0.023 | 0.0037 J/0.0044 J | 0.015 U | 0.0026 J | 0.0015 J | 0.015 U | 0.0014 J | 0.015 U | 0.015 U | 0.015 U |
| Manganese (dissolved) | 0.003 J | 0.0016 J | 0.015 U/0.015 U | 0.015 U | 0.00099 J | 0.0011 J | 0.015 U | 0.00073 J | 0.015 U | 0.015 U | 0.015 U |

| B-9 | 3/26/2014 | 6/9/2014 | 9/9/2014 | 12/9/2014 | 3/27/2015 | 6/23/2015 | 9/17/2015 | 12/15/2015 | 12/16/2015 | 3/21/2016 | 6/21/2016 | 9/29/2016 |
|-----------------------|-----------|----------|----------|-----------|-----------|-----------------|-----------|-----------------|------------|-----------|-----------|-----------|
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.0061 | - | - | - | - | 0.0036 J | - | - |
| Iron (dissolved) | 0.1 U | - | - | - | 0.1 U | - | - | - | - | 0.65 | - | - |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.0019 J | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.0023 J | 0.0038 J | - |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.0023 J | 0.0038 J | - |
| Manganese | 0.047 | 0.019 | 0.21 | 0.047 | 0.11 | 0.003 U/0.003 U | 0.16/0.17 | 0.19/0.2 | 0.089 | 0.25 | 1.2 (ABC) | 0.58 (AC) |
| Manganese (dissolved) | 0.047 | 0.019 | 0.2 | 0.039 | 0.036 | 0.085 | 0.28/0.27 | 0.19/0.2 | 0.089 | 0.25 | 0.75 (AC) | 0.58 (AC) |

| MW-2 | 3/26/2014 | 3/27/2015 | 3/21/2016 |
|-----------------------|-----------|---------------------|-----------|
| Arsenic | 0.0066 | 0.0076/0.0077 | - |
| Arsenic (dissolved) | 0.0046 J | 0.0076/0.0062 | 0.0081 |
| Iron | 6 | 2.1/2.1 | - |
| Iron (dissolved) | 4 | 1.9/1.7 | 2.6 |
| Lead | 0.003 U | 0.003 U/0.003 U | 0.003 U |
| Lead (dissolved) | 0.003 U | 0.003 U/0.003 U | 0.003 U |
| Manganese | 1.8 (ABC) | 1.5 (ABC)/1.5 (ABC) | 2.3 (ABC) |
| Manganese (dissolved) | 1.7 (ABC) | 1.5 (ABC)/1.5 (ABC) | 2.3 (ABC) |

| PFW-4 | 6/10/2014 | 3/26/2015 | 3/21/2016 |
|-----------------------|-----------------|-----------|-----------|
| Arsenic | - | 0.0052 | - |
| Arsenic (dissolved) | 0.005 U/0.005 U | 0.0043 J | 0.0031 J |
| Iron | 0.1 U | 0.1 U | 0.22 |
| Iron (dissolved) | 0.1 U/0.1 U | 0.1 U | 0.22 |
| Lead | - | 0.0027 J | - |
| Lead (dissolved) | 0.003 U/0.003 U | 0.003 U | 0.0021 J |
| Manganese | - | 0.046 | - |
| Manganese (dissolved) | 0.052/0.052 | 0.049 | 0.056 |

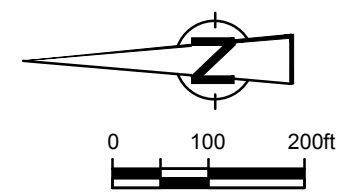
| PFW-11 | 3/26/2014 | 3/25/2015 | 3/22/2016 |
|-----------------------|-----------|-----------|-----------|
| Arsenic | 0.005 U | 0.0043 J | - |
| Arsenic (dissolved) | 0.005 U | 0.0039 J | 0.0029 J |
| Iron | 0.1 U | 0.067 J | - |
| Iron (dissolved) | 0.1 U | 0.1 U | 0.1 U |
| Lead | 0.003 U | 0.003 U | - |
| Lead (dissolved) | 0.003 U | 0.0023 J | 0.003 U |
| Manganese | 0.0062 J | 0.015 | - |
| Manganese (dissolved) | 0.0041 J | 0.0085 J | 0.015 U |

| PFW-10 | 3/26/2014 | 3/26/2015 | 3/22/2016 |
|-----------------------|-----------------|-----------|-----------|
| Arsenic (dissolved) | 0.005 U/0.005 U | 0.005 U | 0.005 U |
| Iron (dissolved) | 0.1 U/0.1 U | 0.1 U | 0.1 U |
| Lead (dissolved) | 0.003 U/0.003 U | 0.003 U | 0.003 U |
| Manganese (dissolved) | 0.015/0.011 J | 0.023 | 0.052 |

| MW-18-13 | 3/27/2014 | 6/10/2014 | 9/10/2014 | 12/10/2014 | 3/26/2015 | 6/23/2015 | 9/17/2015 | 12/15/2015 | 12/16/2015 | 3/22/2016 | 6/21/2016 | 9/29/2016 |
|-----------------------|-----------|-----------|-----------|------------|-----------|-----------|----------------|------------|------------|-----------|-----------|-----------|
| Arsenic | 0.005 U | - | - | - | 0.0036 J | - | - | - | - | - | - | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.0042 J | - | - | - | - | 0.004 J | - | - |
| Iron | 0.1 U | - | - | - | 0.1 U | - | - | - | - | 0.1 U | - | - |
| Iron (dissolved) | 0.1 U | - | - | - | 0.1 U | - | - | - | - | 0.1 U | - | - |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.005 U | 0.0023 J |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.005 U | 0.0023 J |
| Manganese | 0.009 J | 0.071 | 0.17 | 0.36 | 0.25 | 0.33 | 0.28 | 0.28 | - | - | - | - |
| Manganese (dissolved) | 0.0085 J | 0.061 | 0.18 | 0.37 | 0.27 | 0.25 | 0.57 (AC)/0.33 | 0.29 | 0.35 | 0.2 | 0.29 | 0.087 |

| MW-19-13 | 3/27/2014 | 6/9/2014 | 9/9/2014 | 12/9/2014 | 3/26/2015 | 6/22/2015 | 9/14/2015 | 12/15/2015 | 3/21/2016 | 6/21/2016 |
|-----------------------|-----------|----------|----------|-----------------|-----------|-----------|-----------|------------|-----------|-----------|
| Arsenic | 0.005 U | - | - | - | - | - | - | - | 0.0046 J | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.0042 J | - | - | - | 0.0037 J | - |
| Iron | 0.12 | - | - | - | 0.1 U | - | - | - | 0.1 U | - |
| Iron (dissolved) | 0.1 U | - | - | - | 0.1 U | - | - | - | 0.1 U | - |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.005 U |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U/0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.0028 J | 0.003 U | 0.005 U |
| Manganese | 0.11 | 0.092 | 0.28 | 0.19/0.2 | 0.086 | 0.12 | 0.19 | 0.23 | 0.064 | - |
| Manganese (dissolved) | 0.11 | 0.11 | 0.27 | 0.2/0.19 | 0.14 | 0.078 | 0.11 | 0.18 | 0.22 | 0.057 |

| MW-20-13 | 3/26/2014 | 6/9/2014 | 9/10/2014 | 12/10/2014 | 3/25/2015 | 6/22/2015 | 9/17/2015 | 12/15/2015 | 3/21/2016 | 6/20/2016 | 9/28/2016 |
|-----------------------|-----------|----------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| Arsenic | 0.005 U | - | - | - | 0.0042 J | - | - | - | 0.0039 J | - | - |
| Arsenic (dissolved) | 0.005 U | - | - | - | 0.0035 J | - | - | - | 0.005 U | - | - |
| Iron | 0.1 U | - | - | - | 0.018 J | - | - | - | 0.1 U | - | - |
| Iron (dissolved) | 0.1 U | - | - | - | 0.1 U | - | - | - | 0.1 U | - | - |
| Lead | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.0025 J | 0.003 U | 0.003 U | 0.003 U | 0.005 U | 0.005 U | - |
| Lead (dissolved) | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.003 U | 0.005 U | 0.005 U | - |
| Manganese | 0.0062 J | 0.0023 J | 0.015 U | 0.015 U | 0.004 J | 0.00068 J | 0.015 U | 0.015 U | 0.015 U | 0.015 U | - |
| Manganese (dissolved) | 0.0056 J | 0.0012 J | 0.015 U | 0.015 U | 0.0011 J | 0.001 J | 0.015 U | 0.015 U | 0.015 U | 0.015 U | - |



LEGEND

- FACILITY BOUNDARY
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