

Ms. Amanda Armbruster
Saginaw Bay District Office
Michigan Department of Environmental Quality
401 Ketchum Street, Suite B
Bay City, Michigan 48708

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax
www.arcadis.com

Subject:
Annual Progress Report - December 2016 through December 2017
RACER Trust Saginaw Malleable Industrial Land and
Green Point Landfill
Saginaw, Michigan

ENVIRONMENT

Date:
December 15, 2017

Dear Ms. Armbruster:

Contact:
Scott Clearwater

This annual progress report presents a summary of the work activities conducted during the period of December 2016 through December 2017 for the Revitalizing Auto Communities Environmental Response (RACER) Trust Saginaw Malleable Industrial Land (SMI) and Green Point Landfill (GPL) properties located in Saginaw, Michigan (the Site, **Figure 1**). This progress report also provides a summary of the work activities anticipated at the Site for the next 12-month period.

Phone:
810.225.1921

Email:
scott.clearwater@arcadis.com

Our ref:
B0064434.2017
B0050096.2017

Key Correspondence

The key correspondence with the Michigan Department of Environmental Quality (MDEQ), Environmental Protection Agency (EPA), or City of Saginaw with Arcadis and/or GHD during the reporting period are as follows:

- The 2016 Annual Report was submitted on December 15, 2016.
- An email was submitted on December 19, 2016, providing an update on the status of the PCB-impacted material removal and followed up with a call on December 21, 2016. Following the call, additional details for the PCB-impacted material removal were provided on December 22, 2016.
- The Revised Final Sediment Tables were submitted on January 12, 2017. The MDEQ approved the tables on January 12, 2017.
- An email was submitted on January 13, 2017, requesting confirmation of their plan to characterize topsoil to be placed at the Site, which was approved by MDEQ the same day.

- An email was submitted on January 16, 2017, with a proposed excavation floor sampling plan for the I27.7 Manhole Area which was approved by MDEQ and EPA on January 17, 2017.
- An email was submitted on January 25, 2017, summarizing the results of the topsoil stockpile characterization. The topsoil was acceptable to use at the Site. A brief memorandum documenting the topsoil stockpile characterization was submitted to MDEQ on February 1, 2017.
- Emails were submitted on February 2, 2017 and February 14, 2017, with an interim update and the final results of the excavation floor sampling plan for the I27.7 Manhole Area, respectively.
- The Supplemental Sampling Report was submitted on February 3, 2017.
- The Aquatic Screening Evaluation was submitted on February 8, 2017
- The Draft Recreational Criteria and Summary of Exceedances was submitted on February 23, 2017.
- The PCB Cleanup Completion Summary Report was submitted on March 21, 2017.
- An email was submitted to MDEQ/EPA requesting approval to proceed with the additional PCB delineation sampling. EPA approved the proposed additional sampling on April 13, 2017.
- An email was submitted to EPA/MDEQ with the results of the additional delineation sampling of PCBs and proposed modifications to the proposed cover. EPA/MDEQ approved the modification to the cover on April 26, 2017 via email.
- Emails were submitted to EPA and MDEQ requesting approval to place compensating cut material as part of the cover outside the footprint of the floor slab. EPA approved the request on April 19, 2017 via email and the MDEQ approved the request on July 7, 2017.
- A memorandum was submitted via email on April 20, 2017, summarizing the results of a second topsoil stockpile characterization. MDEQ determined the topsoil was acceptable for use at the Site.
- A memorandum was submitted documenting the available characterization data for the clay stockpile at RACER's Nodular Industrial Land in Saginaw, Michigan. Followed up by an email on May 30, 2017, with a summary of the results of some additional clay characterization sampling completed on May 9, 2017.
- The Eastern Property Extension Vanadium Sampling Work Plan was submitted May 31, 2017; and approved by the MDEQ on June 1, 2017.
- A vanadium sampling summary email was submitted June 15, 2017.
- The Boundary Investigation Scope of Work was submitted June 19, 2017; and approved by the MDEQ on July 10, 2017.
- The Proposed Approach for Lead Evaluation at RACER Saginaw Memo was submitted on June 19, 2017.
- The Saturated Soil Samples Evaluation Regarding Use in Comparison to Ambient Air Criteria at the RACER Saginaw Malleable Industrial Land was submitted on June 21, 2017.
- The Fractional Lead Investigation Scope of Work was submitted July 14, 2017, and approved by the MDEQ on July 25, 2017.
- The Revised Saturated Soil Samples Evaluation Regarding Use in Comparison to Ambient Air Criteria was submitted on July 21, 2017.
- A memorandum was submitted on July 21, 2017, as a supplement to the PCB Cleanup Completion Summary Report to provide details on the cover installation. The memorandum included a separate memorandum documenting the characterization of the clay samples collected in May 2017.
- The Boundary Investigation Summary Memo was submitted August 18, 2017.
- The Railyard Lead Investigation Summary Memo was submitted September 7, 2017.

- The Volatile Soil Inhalation Criteria (VSIC) Shallow Soil Sampling Work Plan was submitted August 2, 2017, and an additional sample request was submitted on August 24, 2017. The work plan was originally approved by the MDEQ on August 3, 2017. Additional approval for sample collection was given by the MDEQ on August 28, 2017.
- The VSIC Investigation Summary Memo was submitted on September 18, 2017.
- The Railyard Area Lead Additional Sampling Work Plan was submitted on September 21, 2017, and approved on September 25, 2017.
- The Recreational Use Risk Evaluation Report was submitted on September 18, 2017, and approved on October 31, 2017.
- A memorandum was submitted on October 19, 2017, documenting the re-installation of the Quench Pit monitoring wells and monitoring and transmissivity testing results.
- A memorandum was submitted on November 22, 2017, with a sampling plan for the berm soil remaining on-Site.
- Preparation of the Non-Residential Risk Evaluation Report was initiated.
- All the work completed in 2017 was implemented within the limits of the MDEQ approved initial 2017 budget, no budget amendments were required.
- The 2018 Budget Request is pending.

Conference Call/Meetings

- GHD had a call with EPA on January 11, 2017, to discuss the I27.7 Manhole Area excavation. As a follow up to the call, on January 12, 2017 GHD submitted an email to MDEQ/EPA in response to questions that arose out of the discussion on January 11, 2017.
- Arcadis and RACER had a call with MDEQ on March 29, 2017, to discuss the Declaration of Restrictive Covenants (DRCs) for the Site.
- GHD, RACER, EPA, and MDEQ had a call on February 16, 2017 to discuss the results of the I27.7 Manhole Area investigation. MDEQ/EPA confirmed that no further sampling was required in the I27.7 Manhole Area.
- GHD, RACER, and MDEQ had a call on April 6, 2017, to discuss some proposed additional delineation sampling of PCBs.
- RACER, Arcadis, and MDEQ conducted several meetings throughout the year to review the recreational use scenario and develop draft exposure parameters; findings of the aquatic screening; vanadium data discussions; the boundary delineation work plan; and the recreational calculations including use of the UCL argument. VSIC contaminates in the former UST #7 area, and fractional lead data discussions were a part of the follow-up meetings, to be included in the recreational report. Additionally, a conference call was conducted to discuss the Recreational Use Report and discuss the pending Non-Residential Use Report.
- A conference call meeting was held November 14, 2017 between RACER MDEQ, GHD, and Arcadis to review potential 2018 scope of work and proposed budgets.

Site Activities

Supplemental Investigation Activities at SMI and GPL

Based on the review of historical data and the review of the proposed 2017 MDEQ cleanup criteria, there may be potential data gaps in the previously collected data. Additionally, a pending property transaction will allow for recreational use of the property. Therefore, additional soil samples were collected at the Site. Below is a summary of the supplemental sampling activities that took place between December 2016 and December 2017:

- The Eastern Property Extension Vanadium Sampling Work Plan email was submitted to the MDEQ on May 31, 2017. The MDEQ approved the work plan in an email dated June 1, 2017, requesting a shift in a sample location. The vanadium sampling was completed on June 7, 2017. A summary email was submitted to the MDEQ on June 15, 2017.
- The Boundary Investigation Scope of Work was submitted to the MDEQ on June 19, 2017 and approved in an email on July 10, 2017, with additional samples requested. Soil sampling was completed on July 13, 2017. The Boundary Investigation Summary Memo was submitted to the MDEQ on August 18, 2017.
- The Fractional Lead Investigation Scope of Work was submitted on July 14, 2017, approved by MDEQ on email dated July 25, 2017 with additional sample locations requested. Work was completed on July 13, July 27, and August 16, 2017. These results were summarized in the Railyard Lead Investigation Summary Memo dated September 7, 2017.
- The VSIC Shallow Soil Sampling Work Plan was approved by MDEQ in email dated August 3, 2017 with a request for additional samples. Soil samples were collected on August 4 and September 7, 2017. The VSIC Investigation Summary Memo was submitted to the MDEQ on September 18, 2017, and amended on October 9, 2017.
- The Railyard Area Lead Additional Sampling Work Plan dated September 21, 2017, was approved by the MDEQ in an email dated September 25, 2017. Work was completed on October 20, 2017. At the time this report was published, the data were under review. A full evaluation will be submitted under a follow-up report during the first quarter of 2018.

SMI Annual Operation, Maintenance, and Monitoring

- On August 30 through September 1, 2017 the annual Operation, Maintenance, and Monitoring (OM&M) groundwater monitoring event took place in accordance with the approved Remedial Action (RAP) and previous annual report recommendations. Before sampling on August 26 through September 1, the wells were gauged with an electronic water level indicator, graduated at 0.01-foot increments, to measure static groundwater elevations, which are provided in **Table 1**. Groundwater average elevations have risen approximately one foot over the Site, but are generally consistent with those observed since demolition of the plant building (**Figure 2**). Site-wide gauging shows that the average groundwater elevation in 2011 was 582.36 and the average in 2017 is 583.95, showing the average groundwater elevation has risen slightly, but is generally stable. Groundwater generally flows east towards the Saginaw River.
- Groundwater samples were collected between August 30 and September 1, 2017 from 11 wells (MW-149WT, MW-107WT, MW-107SI, MW-108S2, MW-108WT, MW-110WTR, MW-111WT, MW-185WT,

MW-186WT, MW-114WT and MW-114S2) located in the river berm area in the SMI Plant Property. A well construction summary, sampling parameters, and field parameters at the time of sampling the SMI monitoring wells are included in **Attachment 1**. The results from the sampling are summarized in **Table 2** and as follows:

- o Individual total Aroclors were not detected in any of the five locations (MW-110WTR, MW-111WT, MW-114WT, MW-186WT, and MW-186WT) that were analyzed for polychlorinated biphenyls (PCBs) in 2017. These results are similar to historic results, and remain below the Groundwater Surface Water Interface (GSI) criteria of 0.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$).
- o Arsenic was detected in MW-107WT and MW-149WT at values of 2.0 micrograms per liter ($\mu\text{g}/\text{L}$) and 48 $\mu\text{g}/\text{L}$, respectively (duplicate sample at MW-149WT result was 48 $\mu\text{g}/\text{L}$). MW-107WT and MW-149WT are designated as perimeter groundwater-surface water interface (GSI) monitoring wells. The concentration is above the MDEQ GSI criteria of 10 $\mu\text{g}/\text{L}$ at MW-149WT, but significantly below the 680 $\mu\text{g}/\text{L}$ GSI mixing zone concentration established for venting groundwater under the conditionally approved RAP and based on the 5 Year Mixing Zone Review renewal approved on August 5, 2016.
- o Manganese was detected in MW-107WT, MW-108WT, MW-110WTR, MW-111WT, MW-114WT, MW-185WT, and MW-186WT. However, concentrations are below the MDEQ GSI criterion of 6,203 $\mu\text{g}/\text{L}$.
- o MDEQ has previously evaluated a mixing zone application submitted by GM Corp and established that there is no reasonable potential for ammonia to cause an exceedance of water quality standards. Ammonia concentrations were observed to be present at concentrations lower than those in prior events, and concentrations are dropping in the perimeter GSI monitoring wells.
- o Total phosphorus was detected in the groundwater samples collected from well MW-110WTR, MW-111WT, MW-114WT, MW-149WT, and MW-186WT; none of the results were above the MDEQ GSI criterion of 1,000 $\mu\text{g}/\text{L}$ during the 2017 sampling event. Analytical results from 2017 show a slight increase in concentrations compared to 2016 analytical results, but are below historical concentrations, indicating a continued downward trend.
- o The sample collected from MW-108WT was analyzed for semi-volatile organic compounds (SVOCs). There were no SVOCs detected at concentrations above MDEQ criteria.
- Two SMI Type III Landfills, River Berm Area, SMI Plant and Former Railyard Area were all inspected on August 28, 2017. Undesirable growth (shrubs) was noted on the northern Type III Landfill. Arcadis staff removed the growth while onsite during the 2017 annual monitoring event. No other issues resulting in recommended follow-up were noted. The inspection forms are included in **Attachment 6**.

PCB and LNAPL Activities

- Completed the final removal of the polychlorinated biphenyl (PCB) impacted materials from the former SMI Plant.
- Installed a 25.4 acre 1-foot clay cover over the former SMI Plant concrete floor slab.
- Re-Installed nine monitoring wells (QPTW-01R, QPTW-03R2, QPTW-04R, QPTW-05R, QPTW-10R, QPTW-13R, QP-1R, QP-2R, and QP-3R) in the Quench Pit Area, to replace wells destroyed during the installation of the soil cover.
- Conducted transmissivity testing in two re-installed wells QPTW-04R and QPTW-05R, which had sufficient light non-aqueous phase liquid (LNAPL) to conduct a transmissivity test. The results of the

transmissivity testing indicated that both locations were less than 0.5 square foot per day (ft²/day), the MDEQ minimum recoverability criterion. Results from the transmissivity test are included in **Attachment 2**.

- Re-initiated quarterly monitoring of the re-installed Quench Pit wells on September 6, 2017 and November 27, 2017. A summary of LNAPL measurements is included in **Attachment 2**.

Green Point Landfill Annual Operation, Maintenance, and Monitoring

- The annual OM&M groundwater sampling took place between August 29 and 30, 2017, and on November 13, 2017. Nine of the fourteen wells included in the annual GPL groundwater monitoring program were sampled between August 29 and 30, 2017 (MW-183WT, TWW-1, TW-242, X-4CAUGR, X-4D, X-9AR, X-9BR, X-9CAUG, and X-9D), three more wells (MW-117S1, MW-118S1, and MW-118WT) were sampled on November 13, 2017. Monitoring well MW-117WT was inaccessible due to ponding water and could not be sample. Monitoring well X-4AR was observed to have a measurable amount of water during the monitoring event, but using ultra low flow sampling procedures the well went dry and did not recharge to allow for collection of a sample.
- Before sampling on August 29 and 30, the accessible wells were gauged with an electronic water level indicator, graduated at 0.01-foot increments, to measure static groundwater elevations, which are provided in **Table 1**. Monitoring wells that were not accessible due to flooding on GPL include: MW-117S1, MW-117WT, MS-118S1, MW-118WT, MW-122WT, MW-122S1, MW-122S2, MW-124S1, MW-124WT, MW-2A, MW-2B, and MW-2CAUG. Before the sampling on November 13, 2017, monitoring wells MW-117S1, MW-118S1, and MW-118WT were gauged and static groundwater elevations were collected. The monitoring well sampling plan and well construction summary, sampling parameters, and field parameters at the time of sampling for GPL wells are included in **Attachment 3**. The results from the sampling are summarized in **Table 2** and as follows:
 - o Barium, manganese, and sodium were detected at concentrations below their GSI criterion, in samples collected from monitoring wells MW-183WT, X-4CAUGR, X-4D, X-9AR, X-9BR, X-9CAUG, and X-9D adjacent to the Saginaw River.
 - o Arsenic was detected at concentrations below the GSI criterion in samples collected from monitoring wells MW-183WT, X-4CAUGR, X-9AR, X-9BR, and X-9D adjacent to the Saginaw River.
 - o Iron was detected at concentrations below the GSI criterion, in samples collected from monitoring wells MW-183WT, X-4CAUGR, X-9AR, X-9BR, and X-9CAUG, adjacent to the Saginaw River.
 - o Concentrations of total ammonia in perimeter GSI monitoring wells X-9AR, X-9CAUG, and X-9BR have varied considerably since 1995. Since submittal of the RAP concentrations have continued to fluctuate within historical ranges, but 2017 concentrations are lower than 2016 concentrations, except for X-9BR which has risen to 2015 concentrations. MDEQ has previously evaluated a mixing zone application submitted by GM and Waste Management and has established that there is no reasonable potential for ammonia to cause an exceedance of water quality standards. Concentrations will continue to be monitored.
 - o Total dissolved solids (TDS) concentrations were similar to those seen in prior years. Monitoring wells X-4D and X-9D are perimeter wells used for evaluating GSI impacts and exceed the 2,200,000 µg/L background screening level concentration established for TDS in the conditionally-approved RAP. Both concentrations were 2,300,000 µg/L.

- Two wells located in the south-west portion of the GPL property (TWW-1 and TW-242) were sampled on August 30, 2017. These wells are included in the annual monitoring program due to the historical discharge of volatile organic compounds (VOCs) to the subsurface from the neighboring property to the west through a drainage pipe. 1,2,4-trichlorobenzene, 1,1-dichloroethane, vinyl chloride, and cis-1,2-dichloroethene (cis-1,2-DCE) were detected in TWW-1 at concentrations above the laboratory detection limits. Also, 1,1-Dichloroethane and cis-1,2-DCE were detected in TW-242 at concentrations above laboratory detection limits. The detections are below the GSI criteria except for vinyl chloride. Vinyl chloride was detected at a concentration of 43 µg/L at TWW-1, which exceeds the GSI criterion of 13 µg/L. This vinyl chloride concentration is the same as that detected in 2016, but below concentrations detected since the September 2013 sampling event. Since 1997, there appears to be a decreasing trend. As previously mentioned in the 2013 annual report, a portion of a drain pipe was removed, and the remaining in-place ends were sealed to eliminate a migration pathway for VOCs from the adjacent property.
- Analytical data packages for the SMI and GPL September 2017 groundwater sampling events are provided in **Attachment 4**. Ultra-low flow groundwater sampling logs are provided in **Attachment 5**.
- The GPL cap was inspected on August 28, 2017, and was found to be in sound condition. No erosion gullies or other cap issues were found requiring maintenance. No tree saplings or other deep rooting vegetation were observed on the landfill during the inspection. The inspection forms are included in **Attachment 6**.

Recommendations

- It is recommended that surveying the monitoring wells and staff gauges for which elevation information is not available to be completed prior to the 2018 sampling event. These wells consist of; X-4AR, X-4CAUGR, X-4D, X-9D, MW-186WT, RG1, SG1 (nearshore), SG1 (offshore), TW-241, and TW-242.

Anticipated Site Activities

The following activities may be completed between January 2018 through and 2018:

- Complete annual groundwater monitoring per the currently approved plan ultra-low-flow procedures. Sampling is expected to take place during the third quarter 2018.
- Complete evaluation of alternatives to address lead-impacted soils at the Peninsula and former Railyard Area at SMI.
- Record Declaration of Restrictive Covenants for SMI, GPL, and the Peninsula, and install markers at restricted areas.
- Finalize the Non-Residential Risk Evaluation Report.
- Complete the Corrective Measures Implementation (CMI) letter.
- Conduct additional transmissivity testing, as necessary, to evaluate whether LNAPL recovery is prudent.
- Continue on-going quarterly inspections/monitoring associated with the LNAPL areas.
- Conduct inspections on cover over the slab and complete repairs, as necessary.
- Respond to other information requests from MDEQ.

Please contact me at 810-225-1921 or David Favero with RACER if you have any questions regarding the enclosed report or its attachments.

Sincerely,

Arcadis of Michigan, LLC



Scott Clearwater
Certified Project Manager

Copies:

John Fordell Leone, Department of Attorney General
Jean Greensley, U.S. EPA
Brad Norton, Waste Management
Grant Trigger, RACER Trust
David Favero, RACER Trust
Michael Tomka, GHD
John-Eric Pardys, GHD

Enclosures:

Tables

- 1 Summary of Water Elevation Table
- 2 Analytical Data Summary Table

Figures

- 1 Site Location Map
- 2 Groundwater Elevation Contour Map – August 2017

Attachments

- 1 SMI Well Construction Logs, Sampling Parameters, and Field Parameters
- 2 GHD Quench Pit Well Re-Installation Memo
- 3 Green Point Landfill Well Construction Logs, Sampling Parameters, and Field Parameters
- 4 Laboratory Analytical Reports
- 5 Field Sampling Logs
- 6 SMI and Green Point Landfill Site Inspection Forms

TABLES



Table 1
Site-Wide Water Level Measurements, August 28, 2017
Saginaw, Michigan
RACER Trust



Location	Reference Elevation (feet AMSL)	9/20-21/2011 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/11/2012 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/23/2013 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/17-18/2014 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	Location	Reference Elevation (feet AMSL)	9/28-29/2015 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/20-21/2016 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	8/28/17 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	Site Area (GPL or SMI)
Sampled Monitoring Wells (Green Point Landfill)																		
MW-117WT	582.37	2.43	579.94	2.42	579.95	2.86	579.51	1.30	581.07	MW-117WT	582.37	1.72	580.65	1.60	580.77	NA - flooded	NA	GPL
MW-117S1	583.70	2.69	581.01	2.86	580.84	3.24	580.46	1.50	582.20	MW-117S1	583.70	2.24	581.46	1.97	581.73	1.00	582.70	GPL
MW-118WT	582.98	3.41	579.57	3.21	579.77	3.75	579.23	2.42	580.56	MW-118WT	582.98	2.76	580.22	2.75	580.23	0.20	582.78	GPL
MW-118S1	583.28	2.39	580.89	2.53	580.75	2.92	580.36	1.15	582.13	MW-118S1	583.28	1.77	581.51	1.70	581.58	0.67	582.61	GPL
MW-183WT	588.77	10.58	578.19	11.19	577.58	10.38	578.39	8.26	580.51	MW-183WT	588.77	8.48	580.29	8.61	580.16	7.19	581.58	GPL
X-4AR	NA	7.25	NA	dry	dry	5.93	NA	7.14	NA	X-4AR	NA	6.65	NA	6.41	NA	4.61	NA	GPL
X-4CAUGR	NA	7.60	NA	8.66	NA	7.91	NA	9.17	NA	X-4CAUGR	NA	5.48	NA	6.30	NA	4.26	NA	GPL
X-4D	NA	3.64	NA	4.11	NA	3.95	NA	2.71	NA	X-4D	NA	2.72	NA	2.98	NA	1.91	NA	GPL
X-9AR	586.95	8.95	578.00	10.03	576.92	9.25	577.70	7.34	579.61	X-9AR	586.95	7.98	578.97	7.92	579.03	5.69	581.26	GPL
X-9BR	586.85	9.21	577.64	10.27	576.58	9.48	577.37	7.69	579.16	X-9BR	586.85	6.98	579.87	7.90	578.95	5.76	581.09	GPL
X-9CAUG	586.62	9.59	577.03	10.48	576.14	10.25	576.37	7.79	578.83	X-9CAUG	586.62	6.76	579.86	7.64	578.98	5.76	580.86	GPL
X-9D	NA	4.73	NA	5.15	NA	4.96	NA	3.71	NA	X-9D	NA	3.79	NA	4.05	NA	2.96	NA	GPL
X-10BR	592.67	11.63	581.04	11.82	580.85	12.21	580.46	NA	NA	X-10BR	592.67	NA	NA	NA	NA	NA - flooded	NA	GPL
TWW-1	587.31	6.31	581.00	5.79	581.52	7.44	579.87	4.82	582.49	TWW-1	587.31	6.11	581.20	6.68	580.63	5.17	582.14	GPL
Sampled Monitoring Wells (Saginaw Malleable Industrial Land)																		
MW-107WT	590.65	10.34	580.31	10.12	580.53	10.89	579.76	9.71	580.94	MW-107WT	590.65	9.93	580.72	9.98	580.67	9.65	581.00	SMI
MW-107S1	590.74	12.67	578.07	13.94	576.80	12.97	577.77	11.04	579.70	MW-107S1	590.74	11.22	579.52	11.50	579.24	10.10	580.64	SMI
MW-108WT	590.53	dry	dry	dry	dry	dry	dry	10.06	580.47	MW-108WT	590.53	10.16	580.37	9.82	580.71	9.17	581.36	SMI
MW-108S1	590.24	12.19	578.05	13.31	576.93	13.14	577.10	9.85	580.39	MW-108S1	590.24	9.95	580.29	9.64	580.60	8.03	582.21	SMI
MW-110WTR	591.52	13.97	577.55	dry	dry	dry	dry	12.37	579.15	MW-110WTR	591.52	11.17	580.35	12.19	579.33	10.57	580.95	SMI
MW-111WT	590.95	12.06	578.89	11.48	579.47	10.61	580.34	8.88	582.07	MW-111WT	590.95	9.09	581.86	8.79	582.16	8.30	582.65	SMI
MW-114WT	591.12	10.71	580.41	10.58	580.54	8.78	582.34	7.69	583.43	MW-114WT	591.12	8.76	582.36	7.70	583.42	7.57	583.55	SMI
MW-114S2	591.20	12.43	578.77	13.61	577.59	12.61	578.59	11.11	580.09	MW-114S2	591.20	10.97	580.23	10.24	580.96	9.79	581.41	SMI
MW-149WT	592.27	14.09	578.18	15.08	577.19	13.94	578.33	11.68	580.59	MW-149WT	592.27	11.94	580.33	11.83	580.44	11.04	581.23	SMI
MW-185WT	588.67	10.36	578.31	7.31	581.36	6.81	581.86	5.89	582.78	MW-185WT	588.67	6.34	582.33	5.89	582.78	5.92	582.75	SMI
MW-186WT	NA	10.82	NA	11.91	NA	10.89	NA	8.87	NA	MW-186WT	NA	9.25	NA	9.40	NA	8.09	NA	SMI
Gauging Only Monitoring Wells																		
B-3R	609.51	13.51	596.00	8.45	601.06	9.16	600.35	7.58	601.93	B-3R	609.51	8.53	600.98	8.45	601.06	8.34	601.17	SMI
B-3BAUG	596.54	13.96	582.58	13.98	582.56	14.41	582.13	12.99	583.55	B-3BAUG	596.54	13.38	583.16	13.31	583.23	12.64	583.90	SMI
B-5BAUG	594.17	13.51	580.66	13.19	580.98	13.64	580.53	12.01	582.16	B-5BAUG	594.17	12.43	581.74	12.19	581.98	11.21	582.96	SMI
B-5CAUG	594.23	13.22	581.01	13.25	580.98	13.70	580.53	12.08	582.15	B-5CAUG	594.23	NA	NA	12.32	581.91	11.29	582.94	SMI
B-5R	594.54	7.99	586.55	7.34	587.20	7.91	586.63	6.87	587.67	B-5R	594.54	7.59	586.95	6.48	588.06	6.94	587.60	SMI
B-7R	591.76			11.92	579.84	NA	NA	NA	NA	B-7R	591.76	NA	NA	NA	NA	Abandoned	NA	SMI
MW-103S1	595.75	12.20	583.55	12.91	582.84	12.97	582.78	12.00	583.75	MW-103S1	595.75	13.13	582.62	12.22	583.53	11.53	584.22	SMI
MW-103S2	596.34	12.74	583.60	15.66	580.68	16.18	580.16	14.61	581.73	MW-103S2	596.34	14.48	581.86	14.79	581.55	14.09	582.25	SMI
MW-103WT	591.21	15.61	575.60	14.98	576.23	15.50	575.71	13.91	577.30	MW-103WT	591.21	14.29	576.92	14.11	577.10	13.43	577.78	SMI
MW-105S1	593.67	14.98	578.69	12.65	581.02	13.11	580.56	11.49	582.18	MW-105S1	593.67	11.90	581.77	11.64	582.03	10.91	582.76	SMI
MW-105S2	593.27	12.61	580.66	12.25	581.02	12.71	580.56	11.10	582.17	MW-105S2	593.27	11.51	581.76	11.27	582.00	10.55	582.72	SMI
MW-105WT	593.35	12.22	581.13	7.79	585.56	8.30	585.05	8.42	584.93	MW-105WT	593.35	7.98	585.37	7.55	585.80	6.81	586.54	SMI
MW-108S2	590.26	8.21	582.05	13.75	576.51	12.65	577.61	10.71	579.55	MW-108S2	590.26	10.90	579.36	11.21	579.05	9.69	580.57	SMI
MW-108S3	589.98	12.30	577.68	9.04	580.94	8.73	581.25	7.37	582.61	MW-108S3	589.98	7.69	582.29	7.69	582.29	6.49	583.49	SMI
MW-108S4	590.11	8.36	581.75	9.02	581.09	8.88	581.23	7.41	582.70	MW-108S4	590.11	7.81	582.30	7.83	582.28	6.69	583.42	SMI
MW-111S1	591.14	8.54	582.60	13.51	577.63	12.46	578.68	10.57	580.57	MW-111S1	591.14	10.91	580.23	11.08	580.06	9.14	582.00	SMI
MW-111S2	591.50	dry	dry	14.19	577.31	13.06	578.44	11.11	580.39	MW-111S2	591.50	11.38	580.12	11.65	579.85	9.62	581.88	SMI
MW-111S3	591.35	12.56	578.79	9.76	581.59	10.16	581.19	8.77	582.58	MW-111S3	591.35	9.01	582.34	9.02	582.33	7.69	583.66	SMI
MW-111S4	591.66	12.75	578.9.															

Table 1
Site-Wide Water Level Measurements, August 28, 2017
Saginaw, Michigan
RACER Trust



Location	Reference Elevation (feet AMSL)	9/20-21/2011 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/11/2012 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/23/2013 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/17-18/2014 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	Location	Reference Elevation (feet AMSL)	9/28-29/2015 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	9/20-21/2016 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	8/28/17 Depth to Water (feet)	Groundwater Elevation (feet AMSL)	Site Area (GPL or SMI)
Gauging Only Monitoring Wells Continued																		
MW-134WT	594.02	7.28	586.74	6.89	587.13	7.34	586.68	6.31	587.71	MW-134WT	594.02	7.13	586.89	6.60	587.42	6.58	587.44	SMI
MW-134S1	593.31	NA	NA	NA	NA	12.59	580.72	10.99	582.32	MW-134S1	593.31	11.38	581.93	11.24	582.07	10.16	583.15	SMI
MW-134S2	593.14	NA	NA	NA	NA	12.47	580.67	10.87	582.27	MW-134S2	593.14	11.25	581.89	11.18	581.96	10.05	583.09	SMI
MW-137WT	595.91	7.28	588.63	5.34	590.57	7.03	588.88	5.19	590.72	MW-137WT	595.91	5.46	590.45	5.49	590.42	NA	NA	SMI
MW-138WT	602.39	6.06	596.33	4.28	598.11	6.40	595.99	4.51	597.88	MW-138WT	602.39	4.42	597.97	5.64	596.75	5.01	597.38	SMI
MW-140WT	595.90	5.96	589.94	10.13	585.77	11.18	584.72	9.90	586.00	MW-140WT	595.90	10.88	585.02	9.99	585.91	9.31	586.59	SMI
MW-140S1	595.33	10.88	584.45	14.43	580.90	14.90	580.43	13.31	582.02	MW-140S1	595.33	13.70	581.63	13.52	581.81	12.80	582.53	SMI
MW-140S2	595.80	14.41	581.39	NA	NA	15.44	580.36	13.84	581.96	MW-140S2	595.80	14.25	581.55	14.07	581.73	13.35	582.45	SMI
MW-143WT	596.52	NA	NA	4.25	592.27	21.94	574.58	20.25	576.27	MW-143WT	596.52	21.31	575.21	21.14	575.38	20.45	576.07	SMI
MW-144WT	593.25	7.97	585.28	7.87	585.38	8.12	585.13	7.45	585.80	MW-144WT	593.25	7.84	585.41	7.75	585.50	NLG	NA	SMI
MW-147WT	592.07	3.90	588.17	3.18	588.89	4.29	587.78	NA	NA	MW-147WT	592.07	NA	NA	NA	NA	Delphi - NLG	NA	SMI
MW-158WT	591.78	NA-NF	NA	3.39	588.39	4.29	587.49	NA	NA	MW-158WT	591.78	NA	NA	NA	NA	Abandoned	NA	SMI
MW-160WT	591.53	NA-NF	NA	NA-NF	NA	Product ¹	NA	NA	NA	MW-160WT	591.53	NA	NA	NA	NA	Abandoned	NA	SMI
MW-168WT	592.11	NA-NF	NA	NA-NF	NA	NA-NL	NA	CNL	NA	MW-168WT	592.11	CNL	NA	NA	NA	Abandoned	NA	SMI
MW-169WT	591.82	NA-NF	NA	3.83	587.99	4.48	587.34	NA	NA	MW-169WT	591.82	NA	NA	NA	NA	Abandoned	NA	SMI
MW-172WT	591.51	NA-NF	NA	NA-NF	NA	4.13	587.38	NA	NA	MW-172WT	591.51	NA	NA	NA	NA	Abandoned	NA	SMI
MW-178WT	590.35	3.78	586.57	2.71	587.64	3.49	586.86	NA	NA	MW-178WT	590.35	NA	NA	NA	NA	Abandoned	NA	SMI
MW-180WT	590.67	NA-NF	NA	2.66	588.01	3.39	587.28	NA	NA	MW-180WT	590.67	NA	NA	NA	NA	Abandoned	NA	SMI
MW-2A	584.56	NA-NF	NA	NA-NF	NA	NA-NL	NA	3.04	581.52	MW-2A	584.56	dry	NA	4.11	580.45	NA - flooded	NA	GPL
MW-2B	584.56	NA-NF	NA	NA-NF	NA	NA-NL	NA	2.46	582.10	MW-2B	584.56	2.99	581.57	2.89	581.67	NA - flooded	NA	GPL
MW-2CAUG	585.15	NA-NF	NA	NA-NF	NA	NA-NL	NA	DRY	NA	MW-2CAUG	585.15	3.60	581.55	3.45	581.70	NA - flooded	NA	GPL
QPTW-01R	598.49	4.30	594.19	4.12	594.37	Product ¹	NA	Product ²	NA	QPTW-01R	594.49	Product ²	NA	Abandoned	NA	5.09	593.40	SMI
QPTW-02	592.35	3.26	589.09	2.90	589.45	3.95	588.40	2.36	589.99	QPTW-02	592.35	3.55	588.80	Abandoned	NA	Reinstalled - NM	NA	SMI
QPTW-03	592.13	NA-NF	NA	NA-NF	NA	Product ¹	NA	NA	NA	QPTW-03	592.13	NA	NA	Abandoned	NA	Reinstalled - NM	NA	SMI
QPTW-04	592.00	5.22	586.78	4.89	587.11	Product ¹	NA	Product ²	NA	QPTW-04	592.00	Product ²	NA	Abandoned	NA	Reinstalled - NM	NA	SMI
QPTW-05	592.13	4.87	587.26	4.26	587.87	Product ¹	NA	Product ²	NA	QPTW-05	592.13	Product ²	NA	Abandoned	NA	Reinstalled - NM	NA	SMI
QPTW-10R	594.20	NA-NF	NA	NA-NF	NA	NA-NL	NA	NA	NA	QPTW-10R	594.20	NA	NA	Abandoned	NA	4.93	589.27	SMI
QPTW-13	592.36	NA-NF	NA	NA-NF	NA	Product ¹	NA	3.48	588.88	QPTW-13	592.36	NA	NA	Abandoned	NA	Reinstalled - NM	NA	SMI
RG1	NA	NA-NF	NA	NA-NF	NA	NA-NL	NA	CNL	NA	RG1	NA	CNL	NA	CNL	NA	22.35	NA	SMI
RW-1	NA	NA-NF	NA	Vault Flooded	NA	Vault Flooded	NA	NA	NA	RW-1	NA	NA	NA	NA	NA	Abandoned	NA	SMI
RW-2	588.09	NA-NF	NA	Vault Flooded	NA	Vault Flooded	NA	NA	NA	RW-2	588.09	NA	NA	NA	NA	Abandoned	NA	SMI
RW-3	588.40	NA-NF	NA	Vault Flooded	NA	Vault Flooded	NA	NA	NA	RW-3	588.40	NA	NA	NA	NA	Abandoned	NA	SMI
SG1 (Near shore)	NA	NA-NF	NA	NA-NF	NA	NA-NL	NA	2.03	NA	SG1 (Near shore)	NA	dry	NA	1.70	NA	1.80	NA	SMI
SG1 (Offshore)	NA	NA-NF	NA	NA-NF	NA	NA-NL	NA	2.28	NA	SG1 (Offshore)	NA	1.62	NA	2.29	NA	2.50	NA	SMI
TP-2	592.12	NA-NF	NA	3.79	588.33	4.64	587.48	NA	NA	TP-2	592.12	NA	NA	NA	NA	Abandoned	NA	SMI
TW-241	NA	5.84	NA	5.07	NA	7.22	NA	4.88	NA	TW-241	NA	5.91	NA	6.81	NA	6.26	NA	GPL
TW-242	NA	6.65	NA	6.29	NA	8.18	NA	5.92	NA	TW-242	NA	7.03	NA	7.93	NA	7.53	NA	GPL
X-10AR2	594.67	7.76	586.91	4.97	589.70	9.00	585.67	4.42	590.25	X-10AR2	594.67	7.22	587.45	7.21	587.46	7.69	586.98	GPL
X-15AR	584.61	NA-NF	NA	NA-NF	NA	NA-NL	NA	NA	NA	X-15AR	584.61	NA	NA	NA	NA	Abandoned	NA	GPL
X-15BR	585.13	NA-NF	NA	NA-NF	NA	NA-NL	NA	NA	NA	X-15BR	585.13	NA	NA	NA	NA	Abandoned	NA	GPL
X-16A	587.44	4.95	582.49	4.43	NA	dry	dry	3.00	584.44	X-16A	587.44	3.82	583.62	5.71	581.73	4.78	582.66	GPL
X-16B	587.20	4.16	583.04	4.47	582.73	5.41	581.79	2.57	584.63	X-16B	587.20	3.49	583.71	4.50	582.70	3.65	583.55	GPL
X-1A	597.72	12.25	585.47	12.20	585.52	12.41	585.31	11.72	586.00	X-1A	597.72	12.14	585.58	12.09	585.63	12.07	585.65	GPL
X-1B	597.69	13.35	584.34	13.39	584.30	13.66	584.03	12.63	585.06	X-1B	597.69	13.02	584.67	12.89	584.80	12.60	585.09	GPL
X-1CR2	598.41	12.41	586.00	12.61	585.80	12.60	585.81	12.31	586.10	X-1CR2	598.41	12.64	585.77	12.44	585.97	12.04	586.37	GPL
X-2A	593.12	5.57	587.55	4.95	588.17	5.77	587.35	3.81	589.31	X-2A	593.12	5.10	588.02	4.97	588.15	4.85	588.27	GPL

Notes:

- Elevations are shown in feet above mean sea level (AMSL) relative to the NGVD datum of 1929.
- Depth to water measurements were taken from the top of well casing.
- Monitoring wells in the MW-128 and X-1 well clusters were extended during landfill capping activities. Reference elevations shown above are from August 2000 when the wells were resurveyed.
- QPTW-03 was replaced by QPTW-03R and neither were monitored in 2014.
- QPTW-10 was replaced by QPTW-10R and QPTW-01 was replaced by QPTW-01R reference elevations updated based on Spicer Group survey dated 7/6/17

CNL Could not locate
GPL Green Point Landfill
NA Not available
SMI Saginaw Malleable Industrial Land
Reinstalled - NM Quench Pit wells were reinstalled by GHD in 2017, but not gauged during the annual monitoring event
Delphi - NLG On Delphi Property - No Longer Gauged

¹ Product was measured in the following wells at the indicated thickness: MW-160WT with 0.32 feet; QPTW-01 with 0.37 feet; QPTW-03 with 0.40 feet; QPTW-04 with 1.35 feet; QPTW-05 with 1.23 feet; and QPTW-13 with field notes indicating product was too thick to detect water.

² Product was measured in the following wells at the indicated thickness: QPTW-01 with 1.04 feet; QPTW-04 with 1.90 feet; and QPTW-05 with 1.78 feet.

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



			Volatile Organics									
Sample ID:	Sample Depth (feet):	Date Collected:	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene
MDEQ GSI Criteria			89	78 (X)	32	330 (X)	740	130	99 (X)	--	5.7 (X)	13
MW-117S1	24.2 - 29.2	06/20/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
MW-117S1	24.2 - 29.2	05/19/00	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117S1	24.2 - 29.2	06/19/01	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117S1	24.2 - 29.2	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	06/19/03	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117S1	24.2 - 29.2	05/27/04	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117S1	24.2 - 29.2	06/23/05	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117S1	24.2 - 29.2	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	06/20/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
MW-117S2	35 - 40	05/20/00	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	06/20/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
MW-117WT	3 - 13	05/19/00	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117WT	3 - 13	06/18/01	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117WT	3 - 13	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	06/19/03	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117WT	3 - 13	12/09/04	1.0 U [1.0 U]	1.0 UJ [1.0 UJ]	--	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	--	--	--
MW-117WT	3 - 13	06/23/05	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-117WT	3 - 13	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
MW-118S1	23.5 - 28.5	05/17/00	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	--	--	--
MW-118S1	23.5 - 28.5	06/19/01	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118S1	23.5 - 28.5	06/27/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	06/19/03	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118S1	23.5 - 28.5	12/09/04	1.0 U	1.0 UJ	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118S1	23.5 - 28.5	06/23/05	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118S1	23.5 - 28.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-118S2	38.5 - 43.5	06/20/95	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	--	--	1.0 U [1.0 U]
MW-118S2	38.5 - 43.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	06/20/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
MW-118WT	1.6 - 11.6	05/17/00	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118WT	1.6 - 11.6	06/19/01	4.0 U [4.0 U]	4.0 U [4.0 U]	--	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	--	--	--	--
MW-118WT	1.6 - 11.6	06/27/02	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	4.0 UJ [2.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]
MW-118WT	1.6 - 11.6	06/19/03	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	--	--	--
MW-118WT	1.6 - 11.6	05/27/04	1.7 U	1.7 U	--	1.7 U	1.7 U	1.7 U	--	--	--	--
MW-118WT	1.6 - 11.6	06/23/05	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	--
MW-118WT	1.6 - 11.6	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	08/17/00	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	09/28/16	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	01/25/97	330 U	330 U	--	330 U	330 U	330 U	--	--	--	--
TWW-1	1.5 - 6.5	08/08/98	200 U	200 U	--	200 U	200 U	200 U	--	--	--	200 U
TWW-1	1.5 - 6.5	05/18/99	250 UD [250 UD]	250 UD [250 UD]	--	250 UD [250 UD]	250 UD [250 UD]	250 UD [250 UD]	--	--	--	--
TWW-1	1.5 - 6.5	05/21/00	250 U	250 UJ	--	250 U	250 U	51 J	--	--	--	--
TWW-1	1.5 - 6.5	09/29/10	71 U	71 U	71 U	71 U	71 U	71 U	360 U	71 U	71 U	71 U
TWW-1	1.5 - 6.5	09/21/11	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	150 U [150 U]	77 U [77 U]	77 U [77 U]
TWW-1	1.5 - 6.5	09/14/12	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	1.7 J [1.6 J]	4.0 U [4.0 U]	4.0 U [4.0 U]	8.0 U [8.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



			Volatile Organics									
Sample ID:	Sample Depth (feet):	Date Collected:	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene
MDEQ GSI Criteria			89	78 (X)	32	330 (X)	740	130	99 (X)	--	5.7 (X)	13
TWW-1	1.5 - 6.5	09/24/13	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	36 U [40 U]	18 U [20 U]	18 U [20 U]
TWW-1	1.5 - 6.5	09/23/14	25 U [25 U]	25 U [25 U]	--	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	50 U [50 U]	25 U [25 U]	25 U [25 U]
TWW-1	1.5 - 6.5	10/01/15	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.5 J [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	5.0 U [5.0 U]	5.0 U [5.0 U]
TWW-1	1.5 - 6.5	09/27/16	< 10 U	< 10 U	--	< 10 U	< 10 U	< 10 U	< 10 U	17	< 20 U	< 10 U
TWW-1 Dup	1.5 - 6.5	09/27/16	< 7.7 U	< 7.7 U	--	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 15 U	< 7.7 U	< 7.7 U
TWW-1	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.4 J	1.7 U	1.1 J	3.3 U	1.7 U	1.7 U
TWW-1 Dup	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.4 J	1.7 U	1.7 U	3.3 U	1.7 U	1.7 U
X-10BR	26.3 - 31.3	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-10BR	26.3 - 31.3	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-4A	6.2 - 9.2	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-4AR	3.3 - 8.3	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-4AR	3.3 - 8.3	06/09/96	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-4AR	3.3 - 8.3	03/05/97	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-4CAUG	18 - 23	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-4CAUGR	18-23	09/28/16	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-4D	40 - 45	04/02/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-4D	40 - 45	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9AR	3 - 13	06/09/96	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9AR	3 - 13	03/05/97	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-9AR	3 - 13	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9BR	26 - 31	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9BR	26 - 31	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-9BR	26 - 31	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	07/24/95	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9CAUG	20 - 25	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	--	--	--	1.0 U
X-9CAUG	20 - 25	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-9CAUG	20 - 25	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	01/08/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
X-9D	42.5 - 47.5	03/11/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
X-9D	42.5 - 47.5	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	08/29/17	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	1,2-Dichloroethane	1,2-Dichloroethene (total)	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene
MDEQ GSI Criteria			360 (X)	130	230 (X)	28	17	2,200	ID	ID	1,700	200 (X)
MW-117S1	24.2 - 29.2	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R	50 U	50 U	1.0 U
MW-117S1	24.2 - 29.2	05/19/00	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	10 U	10 U	0.60 J
MW-117S1	24.2 - 29.2	06/19/01	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	5.0 U	10 U	1.0 U
MW-117S1	24.2 - 29.2	06/26/02	1.0 U	--	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 UJ	0.75 J
MW-117S1	24.2 - 29.2	06/19/03	1.0 U	--	1.0 U	--	--	2.0 U	2.0 U	2.0 U	2.0 U	0.58 J
MW-117S1	24.2 - 29.2	05/27/04	1.0 U	--	1.0 U	--	--	2.0 UJ	2.0 U	2.0 U	2.0 UJ	0.71 J
MW-117S1	24.2 - 29.2	06/23/05	1.0 U	2.0 U	1.0 U	--	--	25 U	50 U	50 U	25 U	0.66 J
MW-117S1	24.2 - 29.2	12/13/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 UJ	50 UJ	50 U	25 UJ	0.65 J
MW-117S1	24.2 - 29.2	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R	50 U	50 U	1.0 U
MW-117S2	35 - 40	05/20/00	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	12/13/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 UJ	50 UJ	50 U	25 UJ	1.0 U
MW-117WT	3 - 13	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R	50 U	50 U	1.0 U
MW-117WT	3 - 13	05/19/00	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	10 U	10 U	0.13 J
MW-117WT	3 - 13	06/18/01	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	5.0 U	10 U	1.0 U
MW-117WT	3 - 13	06/26/02	1.0 U	--	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 UJ	0.16 J
MW-117WT	3 - 13	06/19/03	1.0 U	--	1.0 U	--	--	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
MW-117WT	3 - 13	12/09/04	1.0 U [1.0 U]	2.0 U [2.0 U]	1.0 U [1.0 U]	--	--	25 U [25 U]	50 UJ [50 UJ]	50 U [50 U]	25 U [25 U]	0.23 J [0.25 J]
MW-117WT	3 - 13	06/23/05	1.0 U	2.0 U	1.0 U	--	--	25 U	50 U	50 U	25 U	1.0 U
MW-117WT	3 - 13	12/13/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 UJ	50 UJ	50 U	25 UJ	1.0 U
MW-117WT	3 - 13	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R	50 U	50 U	1.0 U
MW-118S1	23.5 - 28.5	05/17/00	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	--	10 U [10 U]	10 U [10 U]	10 U [10 U]	10 U [10 U]	0.47 J [0.46 J]
MW-118S1	23.5 - 28.5	06/19/01	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	5.0 U	10 U	1.0 U
MW-118S1	23.5 - 28.5	06/27/02	1.0 U	--	1.0 U	1.0 U	1.0 U	10 UJ	10 U	10 U	10 U	0.37 J
MW-118S1	23.5 - 28.5	06/19/03	1.0 U	--	1.0 U	--	--	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
MW-118S1	23.5 - 28.5	12/09/04	1.0 U	2.0 U	1.0 U	--	--	25 U	50 UJ	50 U	25 U	0.53 J
MW-118S1	23.5 - 28.5	06/23/05	1.0 U	2.0 U	1.0 U	--	--	25 U	50 U	50 U	25 U	1.0 U
MW-118S1	23.5 - 28.5	12/14/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
MW-118S1	23.5 - 28.5	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-118S2	38.5 - 43.5	06/20/95	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	50 U [50 U]	R [R]	50 U [50 U]	3.0 J [50 U]	0.60 J [1.0 U]
MW-118S2	38.5 - 43.5	12/14/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
MW-118WT	1.6 - 11.6	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R	50 U	50 U	1.0 U
MW-118WT	1.6 - 11.6	05/17/00	1.0 U	1.0 U	1.0 U	--	--	10 U	10 U	28	10 U	0.54 J
MW-118WT	1.6 - 11.6	06/19/01	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	--	--	40 U [40 U]	40 U [40 U]	180 [180]	40 U [40 U]	4.0 U [4.0 U]
MW-118WT	1.6 - 11.6	06/27/02	2.0 U [1.0 U]	--	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	20 UJ [10 UJ]	20 UJ [10 U]	4.9 J [5.2 J]	20 UJ [10 U]	0.34 J [1.0 U]
MW-118WT	1.6 - 11.6	06/19/03	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	--	2.0 U [2.0 U]	2.0 U [2.0 U]	0.75 J [0.60 J]	2.0 U [2.0 U]	1.0 U [1.0 U]
MW-118WT	1.6 - 11.6	05/27/04	1.7 U	--	1.7 U	--	--	3.3 U	3.3 UJ	3.3 UJ	3.3 UJ	1.7 U
MW-118WT	1.6 - 11.6	06/23/05	1.0 U	2.0 U	1.0 U	--	--	25 U	50 U	50 U	25 U	1.0 U
MW-118WT	1.6 - 11.6	12/14/06	1.0 U	--	1.0 U	1.0 U	1.0 U	2.1 J	50 U	50 U	25 UJ	1.0 U
MW-118WT	1.6 - 11.6	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	08/17/00	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	09/28/16	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	01/25/97	330 U	--	330 U	--	--	17,000 U	17,000 U	17,000 U	33,000 U	1,700 U
TWW-1	1.5 - 6.5	08/08/98	200 U	8,000	200 U	200 U	200 U	2,000 U	2,000 U	2,000 U	2,000 U	1,000 U
TWW-1	1.5 - 6.5	05/18/99	250 UD [250 UD]	11,000 D [10,000 D]	250 UD [250 UD]	--	--	1,300 UD [1,300 UD]	1,300 UD [1,300 UD]	1,300 UD [1,300 UD]	1,300 UJD [1,300 UJD]	250 UD [250 UD]
TWW-1	1.5 - 6.5	05/21/00	250 U	8,800	250 U	--	--	2,500 U	2,500 U	2,500 U	2,500 U	250 U
TWW-1	1.5 - 6.5	09/29/10	71 U	--	71 U	71 U	71 U	1,800 U	3,600 U	3,600 U	1,800 U	71 U
TWW-1	1.5 - 6.5	09/21/11	77 U [77 U]	--	77 U [77 U]	77 U [77 U]	77 U [77 U]	770 U [770 U]	770 U [770 U]	770 U [770 U]	770 U [770 U]	77 U [77 U]
TWW-1	1.5 - 6.5	09/14/12	4.0 U [4.0 U]	--	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	40 U [40 U]	40 U [40 U]	40 U [40 U]	40 U [40 U]	4.0 U [4.0 U]

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	1,2-Dichloroethane	1,2-Dichloroethene (total)	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene
MDEQ GSI Criteria			360 (X)	130	230 (X)	28	17	2,200	ID	ID	1,700	200 (X)
TWW-1	1.5 - 6.5	09/24/13	18 U [20 U]	--	18 U [20 U]	18 U [20 U]	18 U [20 U]	180 U [200 U]	180 U [200 U]	180 U [200 U]	26 J [24 J]	18 U [20 U]
TWW-1	1.5 - 6.5	09/23/14	25 U [25 U]	--	25 U [25 U]	25 U [25 U]	25 U [25 U]	250 U [250 U]	250 U [250 U]	250 U [250 U]	250 U [250 U]	25 U [25 U]
TWW-1	1.5 - 6.5	10/01/15	5.0 U [5.0 U]	--	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	50 U [50 U]	50 U [50 U]	50 U [50 U]	6.5 J,B [50 U]	5.0 U [5.0 U]
TWW-1	1.5 - 6.5	09/27/16	< 10 U	--	< 10 U	2.7 J	3.3 J	< 100 U	< 100 U	< 100 U	< 100 U	< 10 U
TWW-1 Dup	1.5 - 6.5	09/27/16	< 7.7 U	--	< 7.7 U	< 7.7 U	< 7.7 U	< 77 U	< 77 U	< 77 U	< 77 U	< 7.7 U
TWW-1	1.5 - 6.5	08/30/17	1.7 U	--	1.7 U	1.7 U	1.7 U	17 U	17 U	17 U	17 U	1.7 U
TWW-1 Dup	1.5 - 6.5	08/30/17	1.7 U	--	1.7 U	1.7 U	1.7 U	17 U	17 U	17 U	17 U	1.7 U
X-10BR	26.3 - 31.3	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	50 U	1.0 U
X-10BR	26.3 - 31.3	12/15/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
X-4A	6.2 - 9.2	12/14/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
X-4AR	3.3 - 8.3	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	50 U	50 U	50 UJ	1.0 U
X-4AR	3.3 - 8.3	06/09/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	100 U	5.0 U
X-4AR	3.3 - 8.3	03/05/97	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	50 U	50 U	50 UJ	1.0 U
X-4CAUG	18 - 23	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	100 U	5.0 U
X-4CAUGR	18-23	09/28/16	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 U	1.0 U
X-4D	40 - 45	04/02/08	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 U	1.0 U
X-4D	40 - 45	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	50 U	50 U	50 UJ	1.0 U
X-9AR	3 - 13	06/09/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	100 U	5.0 U
X-9AR	3 - 13	03/05/97	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
X-9AR	3 - 13	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	50 U	50 U	50 UJ	1.0 U
X-9BR	26 - 31	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	100 U	5.0 U
X-9BR	26 - 31	12/15/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
X-9BR	26 - 31	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	50 U	50 U	50 UJ	1.0 U
X-9CAUG	20 - 25	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U	50 U	100 U	5.0 U
X-9CAUG	20 - 25	12/15/06	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 UJ	1.0 U
X-9CAUG	20 - 25	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	01/08/08	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 U	50 U	25 U	1.0 U
X-9D	42.5 - 47.5	03/11/08	1.0 U	--	1.0 U	1.0 U	1.0 U	25 U	50 UJ	50 UJ	25 U	1.0 U
X-9D	42.5 - 47.5	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	08/29/17	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
MDEQ GSI Criteria			ID	ID	35	ID	45 (X)	25	1,100 (X)	350	ID	620
MW-117S1	24.2 - 29.2	06/20/95	1.0 U	1.0 U	1.0 U	0.50 J	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	05/19/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117S1	24.2 - 29.2	06/19/01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117S1	24.2 - 29.2	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117S1	24.2 - 29.2	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	05/27/04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	06/23/05	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J
MW-117S1	24.2 - 29.2	12/13/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	06/20/95	1.0 U	1.0 U	1.0 U	0.80 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117S2	35 - 40	05/20/00	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	12/13/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	06/20/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	05/19/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117WT	3 - 13	06/18/01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117WT	3 - 13	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-117WT	3 - 13	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	12/09/04	1.0 U [1.0 U]	1.0 U [1.0 UJ]	1.0 UJ [1.0 U]	5.0 U [5.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	0.28 J [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
MW-117WT	3 - 13	06/23/05	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	12/13/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	05/17/00	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	0.50 U [0.50 U]
MW-118S1	23.5 - 28.5	06/19/01	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-118S1	23.5 - 28.5	06/27/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-118S1	23.5 - 28.5	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	12/09/04	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-118S1	23.5 - 28.5	06/23/05	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J
MW-118S1	23.5 - 28.5	12/14/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-118S2	38.5 - 43.5	06/20/95	0.70 J [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	6.0 J [2.0]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	3.7 [1.2]	1.0 U [1.0 U]	1.0 U [1.0 U]
MW-118S2	38.5 - 43.5	12/14/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	06/20/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	05/17/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
MW-118WT	1.6 - 11.6	06/19/01	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	2.0 U [2.0 U]
MW-118WT	1.6 - 11.6	06/27/02	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	1.0 U [0.50 U]
MW-118WT	1.6 - 11.6	06/19/03	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
MW-118WT	1.6 - 11.6	05/27/04	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
MW-118WT	1.6 - 11.6	06/23/05	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	12/14/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-118WT	1.6 - 11.6	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	08/17/00	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	09/28/16	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	01/25/97	330 U	330 U	330 U	17,000 U	330 U	330 U	330 U	330 U	330 U	9,600
TWW-1	1.5 - 6.5	08/08/98	200 U	200 U	200 U	1,000 U	200 U	200 U	200 U	200 U	200 U	--
TWW-1	1.5 - 6.5	05/18/99	250 UD [250 UD]	250 UD [250 UD]	250 UJD [250 UD]	250 UD [250 UD]	250 UD [250 UD]	250 UD [250 UD]	250 UJD [250 UD]	250 UD [250 UD]	250 UJD [250 UD]	--
TWW-1	1.5 - 6.5	05/21/00	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	8,800
TWW-1	1.5 - 6.5	09/29/10	71 U	71 U	71 U	360 U	71 U	71 U	71 U	71 U	71 U	230
TWW-1	1.5 - 6.5	09/21/11	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	1,800 [1,800]
TWW-1	1.5 - 6.5	09/14/12	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	190 [200]

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene
MDEQ GSI Criteria			ID	ID	35	ID	45 (X)	25	1,100 (X)	350	ID	620
TWW-1	1.5 - 6.5	09/24/13	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	45 [41]
TWW-1	1.5 - 6.5	09/23/14	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	20 J [21 J]
TWW-1	1.5 - 6.5	10/01/15	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.7 J [5.0 U]
TWW-1	1.5 - 6.5	09/27/16	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	2.9 J
TWW-1 Dup	1.5 - 6.5	09/27/16	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	3.0 J
TWW-1	1.5 - 6.5	08/30/17	--	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.8
TWW-1 Dup	1.5 - 6.5	08/30/17	--	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.7
X-10BR	26.3 - 31.3	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-10BR	26.3 - 31.3	12/15/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4A	6.2 - 9.2	12/14/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4AR	3.3 - 8.3	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4AR	3.3 - 8.3	06/09/96	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4AR	3.3 - 8.3	03/05/97	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4CAUG	18 - 23	06/08/96	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4CAUGR	18-23	09/28/16	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4D	40 - 45	04/02/08	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-4D	40 - 45	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9AR	3 - 13	06/09/96	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9AR	3 - 13	03/05/97	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9AR	3 - 13	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9BR	26 - 31	06/08/96	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9BR	26 - 31	12/15/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9BR	26 - 31	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	07/24/95	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9CAUG	20 - 25	06/08/96	1.0 U	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9CAUG	20 - 25	12/15/06	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9CAUG	20 - 25	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	01/08/08	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9D	42.5 - 47.5	03/11/08	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
X-9D	42.5 - 47.5	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	08/29/17	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methyl acetate	Methyl cyclohexane	Methyl tert-butyl ether	Methylene Chloride
MDEQ GSI Criteria			--	--	ID	ID	18	28	--	--	7,100 (X)	1,500 (X)
MW-117S1	24.2 - 29.2	06/20/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117S1	24.2 - 29.2	05/19/00	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117S1	24.2 - 29.2	06/19/01	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117S1	24.2 - 29.2	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	5.0 U	1.0 U
MW-117S1	24.2 - 29.2	06/19/03	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117S1	24.2 - 29.2	05/27/04	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
MW-117S1	24.2 - 29.2	06/23/05	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
MW-117S1	24.2 - 29.2	12/13/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
MW-117S1	24.2 - 29.2	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	06/20/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117S2	35 - 40	05/20/00	--	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	12/13/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
MW-117WT	3 - 13	06/20/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117WT	3 - 13	05/19/00	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117WT	3 - 13	06/18/01	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117WT	3 - 13	06/26/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	0.38 J	1.0 U
MW-117WT	3 - 13	06/19/03	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-117WT	3 - 13	12/09/04	1.0 U [1.0 U]	--	1.0 UJ [1.0 UJ]	--	1.0 U [1.0 U]	--	--	--	--	5.0 U [5.0 U]
MW-117WT	3 - 13	06/23/05	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
MW-117WT	3 - 13	12/13/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	0.20 J	5.0 U
MW-117WT	3 - 13	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-118S1	23.5 - 28.5	05/17/00	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	--	--	--	1.0 U [1.0 U]
MW-118S1	23.5 - 28.5	06/19/01	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-118S1	23.5 - 28.5	06/27/02	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	5.0 U	1.0 U
MW-118S1	23.5 - 28.5	06/19/03	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-118S1	23.5 - 28.5	12/09/04	1.0 U	--	1.0 UJ	--	1.0 U	--	--	--	--	5.0 U
MW-118S1	23.5 - 28.5	06/23/05	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
MW-118S1	23.5 - 28.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
MW-118S1	23.5 - 28.5	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-118S2	38.5 - 43.5	06/20/95	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	--	--	--	1.0 U [1.0 U]
MW-118S2	38.5 - 43.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
MW-118WT	1.6 - 11.6	06/20/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
MW-118WT	1.6 - 11.6	05/17/00	1.0 U	--	1.0 U	--	0.10 J	--	--	--	--	1.0 U
MW-118WT	1.6 - 11.6	06/19/01	4.0 U [4.0 U]	--	4.0 U [4.0 U]	--	4.0 U [4.0 U]	--	--	--	--	4.0 U [4.0 U]
MW-118WT	1.6 - 11.6	06/27/02	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	20 U [10 U]	2.0 U [1.0 U]	0.49 J [5.0 U]	2.0 U [1.0 U]
MW-118WT	1.6 - 11.6	06/19/03	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	1.0 U [1.0 U]	--	--	--	--	1.0 U [1.0 U]
MW-118WT	1.6 - 11.6	05/27/04	1.7 U	--	1.7 U	--	1.7 U	--	--	--	--	1.7 UJ
MW-118WT	1.6 - 11.6	06/23/05	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
MW-118WT	1.6 - 11.6	12/14/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.62 J	10 U	1.0 U	0.31 J	5.0 U
MW-118WT	1.6 - 11.6	09/27/16	--	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	11/13/17	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	08/17/00	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	09/28/16	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	01/25/97	330 U	--	330 U	--	330 U	--	--	--	--	1,700 U
TWW-1	1.5 - 6.5	08/08/98	200 U	--	200 U	--	200 U	--	--	--	--	1,000 U
TWW-1	1.5 - 6.5	05/18/99	250 UD [250 UD]	--	250 UD [250 UD]	--	250 UD [250 UD]	--	--	--	--	1,300 UJD [1,300 UJD]
TWW-1	1.5 - 6.5	05/21/00	250 U	--	250 U	--	250 U	--	--	--	--	250 U
TWW-1	1.5 - 6.5	09/29/10	71 U	71 U	71 U	71 U	71 U	360 U	710 U	71 U	360 U	360 U
TWW-1	1.5 - 6.5	09/21/11	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	77 U [77 U]	770 U [770 U]	77 U [77 U]	380 U [380 U]	77 U [77 U]
TWW-1	1.5 - 6.5	09/14/12	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	20 U [20 U]	4.0 U [4.0 U]

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics												
Sample ID:	Sample Depth (feet):	Date Collected:	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methyl acetate	Methyl cyclohexane	Methyl tert-butyl ether	Methylene Chloride
MDEQ GSI Criteria			--	--	ID	ID	18	28	--	--	7,100 (X)	1,500 (X)
TWW-1	1.5 - 6.5	09/24/13	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	180 U [200 U]	18 U [20 U]	18 U [20 U]	18 B [17 J,B]
TWW-1	1.5 - 6.5	09/23/14	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	250 U [250 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]
TWW-1	1.5 - 6.5	10/01/15	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	50 U [50 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	4.7 J,B [3.1 J,B]
TWW-1	1.5 - 6.5	09/27/16	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	< 10 U	< 10 U	< 10 U
TWW-1 Dup	1.5 - 6.5	09/27/16	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 77 U	< 7.7 U	< 7.7 U	< 7.7 U
TWW-1	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	17 U	1.7 U	1.7 U	1.7 UJ
TWW-1 Dup	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	17 U	1.7 U	1.7 U	1.7 UJ
X-10BR	26.3 - 31.3	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 U
X-10BR	26.3 - 31.3	12/15/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-4A	6.2 - 9.2	12/14/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-4AR	3.3 - 8.3	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
X-4AR	3.3 - 8.3	06/09/96	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
X-4AR	3.3 - 8.3	03/05/97	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
X-4CAUG	18 - 23	06/08/96	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
X-4CAUGR	18-23	09/28/16	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-4D	40 - 45	04/02/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-4D	40 - 45	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
X-9AR	3 - 13	06/09/96	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
X-9AR	3 - 13	03/05/97	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-9AR	3 - 13	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
X-9BR	26 - 31	06/08/96	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
X-9BR	26 - 31	12/15/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-9BR	26 - 31	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	07/24/95	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	1.0 UJ
X-9CAUG	20 - 25	06/08/96	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	5.0 U
X-9CAUG	20 - 25	12/15/06	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-9CAUG	20 - 25	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	01/08/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-9D	42.5 - 47.5	03/11/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	10 U	1.0 U	5.0 U	5.0 U
X-9D	42.5 - 47.5	09/28/16	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	08/29/17	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics											
Sample ID:	Sample Depth (feet):	Date Collected:	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoro methane	Vinyl Chloride	Total Xylenes
MDEQ GSI Criteria			80 (X)	--	270	1,500 (X)	--	200 (X)	--	13 (X)	41
MW-117S1	24.2 - 29.2	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
MW-117S1	24.2 - 29.2	05/19/00	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	0.14 J	1.0 U
MW-117S1	24.2 - 29.2	06/19/01	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	06/26/02	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U
MW-117S1	24.2 - 29.2	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	05/27/04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	--	1.0 U	1.0 U
MW-117S1	24.2 - 29.2	06/23/05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	--	1.0 U	2.0 U
MW-117S1	24.2 - 29.2	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
MW-117S1	24.2 - 29.2	09/27/16	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	11/13/17	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
MW-117S2	35 - 40	05/20/00	--	--	--	--	--	--	--	--	--
MW-117S2	35 - 40	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
MW-117WT	3 - 13	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
MW-117WT	3 - 13	05/19/00	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-117WT	3 - 13	06/18/01	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-117WT	3 - 13	06/26/02	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-117WT	3 - 13	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-117WT	3 - 13	12/09/04	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	2.0 U [2.0 U]
MW-117WT	3 - 13	06/23/05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	--	1.0 U	2.0 U
MW-117WT	3 - 13	12/13/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
MW-117WT	3 - 13	09/27/16	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	1.0 U	1.0 U	0.90 J	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
MW-118S1	23.5 - 28.5	05/17/00	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	0.50 U [0.50 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	0.33 J [0.33 J]	1.0 U [1.0 U]
MW-118S1	23.5 - 28.5	06/19/01	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	0.27 J	1.0 U
MW-118S1	23.5 - 28.5	06/27/02	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U
MW-118S1	23.5 - 28.5	06/19/03	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U
MW-118S1	23.5 - 28.5	12/09/04	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	--	0.26 J	2.0 U
MW-118S1	23.5 - 28.5	06/23/05	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	--	1.0 U	2.0 U
MW-118S1	23.5 - 28.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	2.0 U
MW-118S1	23.5 - 28.5	09/27/16	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	11/13/17	--	--	--	--	--	--	--	--	--
MW-118S2	38.5 - 43.5	06/20/95	1.0 U [1.0 U]	1.0 U [1.0 U]	0.70 J [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	3.0 U [3.0 U]
MW-118S2	38.5 - 43.5	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
MW-118WT	1.6 - 11.6	06/20/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
MW-118WT	1.6 - 11.6	05/17/00	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	--	1.0 U	0.47 J
MW-118WT	1.6 - 11.6	06/19/01	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	2.0 U [2.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	--	4.0 U [4.0 U]	4.0 U [4.0 U]
MW-118WT	1.6 - 11.6	06/27/02	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	1.0 U [0.50 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]	2.0 U [1.0 U]
MW-118WT	1.6 - 11.6	06/19/03	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	--	1.0 U [1.0 U]	1.0 U [1.0 U]
MW-118WT	1.6 - 11.6	05/27/04	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	--	1.7 U	1.7 U
MW-118WT	1.6 - 11.6	06/23/05	1.0 U	1.0 U	0.20 J	1.0 U	1.0 U	0.57 J	--	1.0 U	2.0 U
MW-118WT	1.6 - 11.6	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J
MW-118WT	1.6 - 11.6	09/27/16	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	11/13/17	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	08/17/00	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	09/28/16	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	01/25/97	330 U	330 U	330 U	330 U	330 U	630	--	2,000	1,000 U
TWW-1	1.5 - 6.5	08/08/98	200 U	200 U	200 U	--	200 U	200 U	--	1,700	600 U
TWW-1	1.5 - 6.5	05/18/99	250 UD [250 UD]	250 UD [250 UD]	250 UD [250 UD]	--	250 UD [250 UD]	250 UD [250 UD]	--	330 D [390 D]	500 U [500 U]
TWW-1	1.5 - 6.5	05/21/00	250 U	250 U	250 U	40 J	250 U	250 U	--	2,300	250 U
TWW-1	1.5 - 6.5	09/29/10	71 U	71 U	71 U	71 U	71 U	71 U	71 U	1,700	140 U
TWW-1	1.5 - 6.5	09/21/11	77 U [77 U]	77 U [77 U]	77 U [77 U]	19 [18]	77 U [77 U]	77 U [77 U]	77 U [77 U]	500 [540]	150 U [150 U]
TWW-1	1.5 - 6.5	09/14/12	4.0 U [4.0 U]	4.0 U [4.0 U]	4.0 U [4.0 U]	2.2 J [1.3 J]	4.0 U [4.0 U]	0.89 J [4.0 U]	4.0 U [4.0 U]	40 [48]	8.0 U [8.0 U]

Table 2
Analytical Data Summary Table - GPL Organics
Saginaw, MI
RACER Trust



Volatile Organics											
Sample ID:	Sample Depth (feet):	Date Collected:	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoro methane	Vinyl Chloride	Total Xylenes
MDEQ GSI Criteria			80 (X)	--	270	1,500 (X)	--	200 (X)	--	13 (X)	41
TWW-1	1.5 - 6.5	09/24/13	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	18 U [20 U]	390 [400]	36 U [40 U]
TWW-1	1.5 - 6.5	09/23/14	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	25 U [25 U]	470 [450]	50 U [50 U]
TWW-1	1.5 - 6.5	10/01/15	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	97 [90]	10 U [10 U]
TWW-1	1.5 - 6.5	09/27/16	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	140	< 20 U
TWW-1 Dup	1.5 - 6.5	09/27/16	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	< 7.7 U	130	< 15 U
TWW-1	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	43	3.3 U
TWW-1 Dup	1.5 - 6.5	08/30/17	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	45	3.3 U
X-10BR	26.3 - 31.3	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	--	1.0 U	3.0 U
X-10BR	26.3 - 31.3	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-4A	6.2 - 9.2	12/14/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-4AR	3.3 - 8.3	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-4AR	3.3 - 8.3	06/09/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-4AR	3.3 - 8.3	03/05/97	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-4CAUG	18 - 23	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-4CAUGR	18-23	09/28/16	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-4D	40 - 45	04/02/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-4D	40 - 45	09/28/16	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9AR	3 - 13	06/09/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9AR	3 - 13	03/05/97	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-9AR	3 - 13	09/28/16	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9BR	26 - 31	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9BR	26 - 31	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-9BR	26 - 31	09/28/16	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	07/24/95	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9CAUG	20 - 25	06/08/96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	3.0 U
X-9CAUG	20 - 25	12/15/06	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-9CAUG	20 - 25	09/28/16	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	01/08/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
X-9D	42.5 - 47.5	03/11/08	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	2.0 U
X-9D	42.5 - 47.5	09/28/16	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	08/29/17	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics														
			1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-trichloro-1,2,2-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	2-Hexanone
MDEQ GSI Criteria			89	78 (X)	32	740	130	99 (X)	--	5.7 (X)	13	360 (X)	230 (X)	28	17	2,200	ID
MW-107S1	12.5 - 17.5	07/12/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 UJ
MW-107S1	12.5 - 17.5	06/07/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 UJ
MW-107WT	4 - 9	06/07/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	R
MW-108S2	22 - 27	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R
MW-108WT	2.5 - 7.5	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	10/13/16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U
MW-108WT	2.5 - 7.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	06/12/96	1.0 U	1.0 U	UNKNOWN	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	100 U	100 U	UNKNOWN	100 U	5.2	--	--	--	12	100 U	100 U	100 U	14	1,000 UJ	1,000 UJ
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/13/16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	07/14/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 UJ	R
MW-111WT	5.5 - 10.5	06/12/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	05/19/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust

Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics														
			1,1,1-Trichloroe thane	1,1,2,2-Tetrachloroe thane	1,1,2-trichloro-1,2,2- trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichloro benzene	1,2-Dibromo-3- chloropropane	1,2- Dibromoethane	1,2-Dichlorobenzene	1,2- Dichloroethane	1,2-Dichloropropane	1,3- Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone	2-Hexanone
MDEQ GSI Criteria			89	78 (X)	32	740	130	99 (X)	--	5.7 (X)	13	360 (X)	230 (X)	28	17	2,200	ID
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	07/17/95	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	R
MW-114S2	22.5 - 27.5	06/07/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-114WT	3.5 - 8.5	06/08/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-114WT	3.5 - 8.5	12/11/97	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	06/12/96	1.0 U	1.0 U	--	1.0 U	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	50 U	50 U
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Volatile Organics															
		Date Collected:	4-Methyl-2-pentanone	Acetone	Benzene	Bromo chloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2- Dichloroethene	cis-1,3- Dichloropropene	Cyclohexane
		MDEQ GSI Criteria	ID	1,700	200 (X)	--	ID	35	ID	45 (X)	25	1,100 (X)	350	ID	620	--	--
MW-107S1	12.5 - 17.5	07/12/95	50 U	50 U	1.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-107S1	12.5 - 17.5	06/07/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	50 U	50 U	1.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-107WT	4 - 9	06/07/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	50 U	50 U	1.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-108S2	22 - 27	06/08/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	50 U	50 U	1.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-108WT	2.5 - 7.5	06/08/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	10/13/16	10 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-108WT	2.5 - 7.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	06/12/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	1,000 U	1,000 U	500 U	--	100 U	100 U	500 U	100 U	200	100 U	100 U	100 U	--	100 U	--
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/13/16	10 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	07/14/95	50 U	50 U	1.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-111WT	5.5 - 10.5	06/12/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	05/19/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust

Sample ID:	Sample Depth (feet):	Volatile Organics															
		Date Collected:	4-Methyl-2-pentanone	Acetone	Benzene	Bromo chloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2- Dichloroethene	cis-1,3- Dichloropropene	Cyclohexane
		MDEQ GSI Criteria	ID	1,700	200 (X)	--	ID	35	ID	45 (X)	25	1,100 (X)	350	ID	620	--	--
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	07/17/95	50 U	50 UJ	1.0 U	--	1.0 U	1.0 UJ	50 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-114S2	22.5 - 27.5	06/07/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-114WT	3.5 - 8.5	06/08/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	50 U	100 UJ	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	--
MW-114WT	3.5 - 8.5	12/11/97	50 U	100 UJ	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	--
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	06/12/96	50 U	100 U	5.0 U	--	1.0 U	1.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics															
			Dibromo chloromethane	Dichlorodifluoro methane	Ethylbenzene	Isopropyl benzene	Methyl acetate	Methyl cyclohexane	Methyl tert-butyl ether	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloro ethene	Trichlorofluoro methane	Vinyl Chloride
MDEQ GSI Criteria			ID	ID	18	28	--	--	7,100 (X)	1,500 (X)	80 (X)	--	270	1,500 (X)	--	200 (X)	--	13 (X)
MW-107S1	12.5 - 17.5	07/12/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-107S1	12.5 - 17.5	06/07/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-107WT	4 - 9	06/07/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-108S2	22 - 27	06/08/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-108WT	2.5 - 7.5	06/08/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	10/13/16	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-108WT	2.5 - 7.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	06/12/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	100 U	--	12	--	--	--	--	500 U	100 U	100 U	7.9	--	100 U	100 U	--	3,400
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/13/16	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	07/14/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	12	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-111WT	5.5 - 10.5	06/12/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	05/19/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics															
			Dibromo chloromethane	Dichlorodifluoro methane	Ethylbenzene	Isopropyl benzene	Methyl acetate	Methyl cyclohexane	Methyl tert-butyl ether	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2- Dichloroethene	trans-1,3- Dichloropropene	Trichloro ethene	Trichlorofluoro methane	Vinyl Chloride
MDEQ GSI Criteria			ID	ID	18	28	--	--	7,100 (X)	1,500 (X)	80 (X)	--	270	1,500 (X)	--	200 (X)	--	13 (X)
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	07/17/95	1.0 U	--	1.0 U	--	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-114S2	22.5 - 27.5	06/07/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-114WT	3.5 - 8.5	06/08/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	--	1.0 U
MW-114WT	3.5 - 8.5	12/11/97	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	--	1.0 U
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	06/12/96	1.0 U	--	1.0 U	--	--	--	--	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics	Semivolatile Organics														
			Total Xylenes	2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	2,4,5-Trichloro phenol	2,4,6-Trichloro phenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloro naphthalene	2-Chlorophenol	2-Methyl naphthalene	2-Methylphenol	2-Nitroaniline	
MDEQ GSI Criteria			41	--	--	--	--	--	--	--	--	--	--	18	19	--	--	
MW-107S1	12.5 - 17.5		3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-107S1	12.5 - 17.5	06/07/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-107WT	4 - 9	07/12/95	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-107WT	4 - 9	06/07/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-108S2	22 - 27	07/13/95	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-108S2	22 - 27	06/08/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-108WT	2.5 - 7.5	07/13/95	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-108WT	2.5 - 7.5	06/08/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-108WT	2.5 - 7.5	09/29/16	--	0.95 U	4.8 U	3.8 U	1.9 U	1.9 U	4.8 U	4.8 U	--	4.8 U	0.95 U	0.95 U	0.19 U	0.95 U	1.9 U	
MW-108WT	2.5 - 7.5	10/13/16	2.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-108WT	2.5 - 7.5	08/31/17	--	0.95 U	4.8 U	3.8 U	--	1.9 U	4.8 U	4.8 U	--	4.8 U	0.95 U	0.95 U	0.19 U	0.95 U	1.9 U	
MW-110WT	UNKNOWN	06/12/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WT	UNKNOWN	12/10/97	4.2	12	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	10/01/15	--	0.95 U	4.8 U	3.8 U	--	1.9 U	4.8 U	4.8 U	4.8 U	--	0.95 U	0.95 U	0.19 U	0.95 U	1.9 U	
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	10/13/16	2.0 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	07/14/95	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-111WT	5.5 - 10.5	06/12/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	05/19/00	--	5.0 U	5.0 U	5.0 U	10 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Sample ID:	Sample Depth (feet):	Date Collected:	Volatile Organics	Semivolatile Organics														
			Total Xylenes	2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	2,4,5-Trichloro phenol	2,4,6-Trichloro phenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloro naphthalene	2-Chlorophenol	2-Methyl naphthalene	2-Methylphenol	2-Nitroaniline	
MDEQ GSI Criteria			41	--	--	--	--	--	--	--	--	--	--	18	19	--	--	
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114S2	22.5 - 27.5	07/17/95	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114S2	22.5 - 27.5	06/07/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	06/08/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 UJ	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114WT	3.5 - 8.5	06/08/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 UJ	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	12/11/97	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114WT	3.5 - 8.5	12/11/97	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-149WT	7 - 17	06/12/96	3.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Semivolatile Organics																					
			2-Nitrophenol	3&4-Methylphenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	Bromophenyl-phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzalde hyde	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene
MDEQ GSI Criteria			--	--	--	--	--	7.4	--	--	--	--	--	--	38	ID	ID	ID	7.3	--	ID	ID	ID	ID
MW-107S1	12.5 - 17.5	07/12/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-107S1	12.5 - 17.5	06/07/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-107WT	4 - 9	06/07/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-108S2	22 - 27	06/08/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-108WT	2.5 - 7.5	06/08/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	1.9 U	--	3.8 U	1.9 U	4.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	4.8 U	0.19 U	0.19 U	0.95 U	0.19 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	0.19 U
MW-108WT	2.5 - 7.5	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	08/31/17	1.9 U	--	3.8 U	1.9 U	--	--	1.9 U	1.9 U	--	1.9 U	1.9 U	4.8 U	0.19 U	0.19 U	0.95 U	0.19 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	0.19 U
MW-110WT	UNKNOWN	06/12/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/01/15	1.9 U	1.9 U	3.8 U	1.9 U	4.8 U	1.9 U	1.9 U	1.9 U, F1	1.9 U	--	1.9 U	4.8 U	0.19 U	0.19 U	0.95 U	0.19 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	0.19 U
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	07/14/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-111WT	5.5 - 10.5	06/12/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	05/19/00	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Semivolatile Organics																					
			2-Nitrophenol	3&4-Methylphenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzalde hyde	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene
MDEQ GSI Criteria			--	--	--	--	--	--	7.4	--	--	--	--	--	38	ID	ID	ID	7.3	--	ID	ID	ID	ID
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	07/17/95	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 UJ	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114S2	22.5 - 27.5	06/07/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 UJ	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 UJ	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	06/12/96	5.0 U	--	20 U	20 U	20 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U	20 U	20 U	5.0 U	5.0 U	--	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--								

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Semivolatile Organics																				
			Benzo(k) fluoranthene	Biphenyl	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Ethylhexyl) phthalate	Butylbenzylp hthalate	Caprolactam	Carbazole	Chrysene	Dibenzo(a,h) anthracene	Dibenzo furan	Diethyl phthalate	Dimethyl phthalate	Di-n- Butylphthalate	Di-n- Octylphthalate	Fluoranthene	Fluorene	Hexachloro benzene	Hexachloro butadiene	Hexa chlorocyclo pentadiene	Hexachloro ethane
MDEQ GSI Criteria			--	--	--	1.0 (M); 0.79	25	67 (X)	--	10 (M); 4.0	ID	ID	4	110	--	--	1.6	12	0.2 (M); 0.0003	0.053	ID	6.7 (X)	ID
MW-107S1	12.5 - 17.5	07/12/95	5.0 U	--	5.0 U	5.0 U	9.0	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-107S1	12.5 - 17.5	06/07/96	5.0 U	--	5.0 U	5.0 U	11 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	5.0 U	--	5.0 U	5.0 U	0.70 J	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-107WT	4 - 9	06/07/96	5.0 U	--	5.0 U	5.0 U	7.7 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-108S2	22 - 27	06/08/96	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-108WT	2.5 - 7.5	06/08/96	5.0 U	--	5.0 U	5.0 U	5.0 UJ	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	0.19 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	4.8 U	0.95 U	0.19 U	0.19 U	0.95 U	0.95 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	0.95 U	4.8 U	0.95 U	0.19 U
MW-108WT	2.5 - 7.5	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	08/31/17	0.19 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	4.8 U	0.95 U	0.19 U	0.19 U	0.95 U	0.95 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	0.95 U	4.8 U	0.95 U	0.19 U
MW-110WT	UNKNOWN	06/12/96	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/01/15	0.19 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	0.38 J	0.95 U	0.19 U	0.19 U	--	0.95 U	0.95 U	0.95 U	0.95 U	0.19 U	0.19 U	0.19 U	4.8 U	0.95 U	0.19 U
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	07/14/95	5.0 U	--	5.0 U	5.0 U	54	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-111WT	5.5 - 10.5	06/12/96	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	05/19/00	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Semivolatile Organics																					
			Benzo(k) fluoranthene	Biphenyl	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Ethylhexyl) phthalate	Butylbenzylp hthalate	Caprolactam	Carbazole	Chrysene	Dibenzo(a,h) anthracene	Dibenzo furan	Diethyl phthalate	Dimethyl phthalate	Di-n- Butylphthalate	Di-n- Octylphthalate	Fluoranthene	Fluorene	Hexachloro benzene	Hexachloro butadiene	Hexa chlorocyclo pentadiene	Hexachloro ethane	Indeno(1,2,3- cd)pyrene
MDEQ GSI Criteria			--	--	--	1.0 (M); 0.79	25	67 (X)	--	10 (M); 4.0	ID	ID	4	110	--	--	--	1.6	12	0.2 (M); 0.0003	0.053	ID	6.7 (X)	ID
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	07/17/95	5.0 U	--	5.0 U	5.0 U	0.63 J	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-114S2	22.5 - 27.5	06/07/96	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	--	5.0 U	5.0 U	5.0 UJ	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	--	5.0 U	5.0 U	5.0 UJ	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	06/12/96	5.0 U	--	5.0 U	5.0 U	5.0 U	5.0 U	--	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



		Semivolatile Organics												PCBs		
Sample ID:	Sample Depth (feet):	Date Collected:	Isophorone	Naphthalene	Nitrobenzene	N-Nitro sodiethylamine	N-Nitro sodimethylamine	N-Nitroso-di-n- propylamine	N-Nitro sodiphenylamine	Penta chlorophenol	Phenanthrene	Phenol	Pyrene	Aroclor-1016	Aroclor-1221	Aroclor-1232
MDEQ GSI Criteria			1,300 (X)	11	180 (X)	--	--	NA	NA	(G,X)	2.0 (M); 1.4	450	ID	--	--	--
MW-107S1	12.5 - 17.5	07/12/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-107S1	12.5 - 17.5	06/07/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-107WT	4 - 9	06/07/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 UJ	5.0 U	5.0 U	5.0 UJ	--	--	--
MW-108S2	22 - 27	06/08/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-108WT	2.5 - 7.5	06/08/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	0.95 U	0.19 U	0.95 U	0.95 U	0.95 U	--	--	4.8 U	0.19 U	0.95 U	0.19 U	--	--	--
MW-108WT	2.5 - 7.5	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	08/31/17	0.95 U	0.19 U	0.95 U	--	--	0.95 U	0.95 U	4.8 U	0.19 U	0.95 U	0.19 U	--	--	--
MW-110WT	UNKNOWN	06/12/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-110WT	UNKNOWN	05/22/00	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.40 U
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/24/05	--	--	--	--	--	--	--	--	--	--	--	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]
MW-110WTR	10 - 15	04/02/08	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.20 U
MW-110WTR	10 - 15	09/24/14	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-110WTR	10 - 15	10/01/15	0.95 U	0.19 U	0.95 U	--	--	0.95 U	0.95 U	4.8 U	--	0.19 U	0.19 U	--	--	--
MW-110WTR	10 - 15	09/29/16	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-110WTR	10 - 15	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/31/17	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-111WT	5.5 - 10.5	07/14/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-111WT	5.5 - 10.5	06/12/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	--	--	--	--	--	--	--	--	--	0.10 U	0.10 U	0.10 U
MW-111WT	5.5 - 10.5	05/19/00	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	0.20 U	0.20 U	0.40 U
MW-111WT	5.5 - 10.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.40 U
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.20 U
MW-111WT	5.5 - 10.5	04/02/08	--	--	--	--	--	--	--	--	--	--	--	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]
MW-111WT	5.5-10.5	09/18/12	--	--	--	--	--	--	--	--	--	--	--	0.098 U	0.098 U	0.098 U
MW-111WT	5.5-10.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-111WT	5.5-10.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Semivolatile Organics												PCBs		
		Date Collected:	Isophorone	Naphthalene	Nitrobenzene	N-Nitro sodiethylamine	N-Nitro sodimethylamine	N-Nitroso-di-n- propylamine	N-Nitro sodiphenylamine	Penta chlorophenol	Phenanthrene	Phenol	Pyrene	Aroclor-1016	Aroclor-1221	Aroclor-1232
MDEQ GSI Criteria			1,300 (X)	11	180 (X)	--	--	NA	NA	(G,X)	2.0 (M); 1.4	450	ID	--	--	--
MW-111WT	5.5-10.5	10/01/15	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-111WT	5.5 - 10.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	0.19 U	0.19 U	0.19 U
MW-111WT	5.5 - 10.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	0.95 U	0.95 U	0.95 U
MW-114S2	22.5 - 27.5	07/17/95	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114S2	22.5 - 27.5	06/07/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114WT	3.5 - 8.5	06/08/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-114WT	3.5 - 8.5	05/22/00	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.40 U
MW-114WT	3.5 - 8.5	04/05/01	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.40 U
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	08/24/05	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.20 U
MW-114WT	3.5 - 8.5	09/26/13	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-114WT	3.5 - 8.5	09/23/14	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-114WT	3.5 - 8.5	10/02/15	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-114WT	3.5 - 8.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-114WT	3.5 - 8.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-149WT	7 - 17	06/12/96	5.0 U	5.0 U	5.0 U	--	--	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	--	--	--
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-185WT	3 - 8	08/25/05	--	--	--	--	--	--	--	--	--	--	--	0.20 U	0.20 U	0.20 U
MW-185WT	3 - 8	11/28/07	--	--	--	--	--	--	--	--	--	--	--	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]
MW-185WT	3 - 8	09/18/12	--	--	--	--	--	--	--	--	--	--	--	0.096 U	0.096 U	0.096 U
MW-185WT	3 - 8	09/25/13	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-185WT	3 - 8	09/24/14	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-185WT	3 - 8	10/01/15	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-185WT	3 - 8	09/30/16	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-185WT	3 - 8	08/31/17	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-186WT	8-18	09/30/10	--	--	--	--	--	--	--	--	--	--	--	0.10 U	0.10 U	0.10 U
MW-186WT	8-18	09/23/11	--	--	--	--	--	--	--	--	--	--	--	0.095 U	0.095 U	0.095 U
MW-186WT	8-18	09/18/12	--	--	--	--	--	--	--	--	--	--	--	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]
MW-186WT	8-18	09/25/13	--	--	--	--	--	--	--	--	--	--	--	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]
MW-186WT	8-18	09/24/14	--	--	--	--	--	--	--	--	--	--	--	0.10 U [0.097 U]	0.10 U [0.097 U]	0.10 U [0.097 U]
MW-186WT	8-18	10/02/15	--	--	--	--	--	--	--	--	--	--	--	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]
MW-186WT	8-18	09/30/16	--	--	--	--	--	--	--	--	--	--	--	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]
MW-186WT	8-18	08/31/17	--	--	--	--	--	--	--	--	--	--	--	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	PCBs													
		Date Collected:	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs	Aroclor-1016 (Dissolved)	Aroclor-1221 (Dissolved)	Aroclor-1232 (Dissolved)	Aroclor-1242 (Dissolved)	Aroclor-1248 (Dissolved)	Aroclor-1254 (Dissolved)	Aroclor-1260 (Dissolved)	Total PCBs (Dissolved)
MDEQ GSI Criteria			--	--	--	--	0.2 (M)	--	--	--	--	--	--	--	0.2 (M)
MW-107S1	12.5 - 17.5	07/12/95	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-107S1	12.5 - 17.5	06/07/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-107S1	12.5 - 17.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107WT	4 - 9	07/12/95	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-107WT	4 - 9	06/07/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-107WT	4 - 9	03/10/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-107WT	4 - 9	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	07/13/95	--	--	--	--	--	R	R	R	R	R	R	R	R
MW-108S2	22 - 27	06/08/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-108S2	22 - 27	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	--	--	--	--	--	R	R	R	R	R	R	R	R
MW-108WT	2.5 - 7.5	06/08/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-108WT	2.5 - 7.5	03/10/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-108WT	2.5 - 7.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108WT	2.5 - 7.5	08/31/17	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WT	UNKNOWN	06/12/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-110WT	UNKNOWN	03/06/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-110WT	UNKNOWN	12/10/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-110WT	UNKNOWN	05/22/00	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-110WTR	10 - 15	06/02/04	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-110WTR	10 - 15	08/24/05	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]
MW-110WTR	10 - 15	04/02/08	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-110WTR	10 - 15	09/24/14	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
MW-110WTR	10 - 15	10/01/15	--	--	--	--	--	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-110WTR	10 - 15	09/29/16	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-110WTR	10 - 15	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	08/31/17	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	--
MW-111WT	5.5 - 10.5	07/14/95	--	--	--	--	--	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U
MW-111WT	5.5 - 10.5	06/12/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-111WT	5.5 - 10.5	03/07/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-111WT	5.5 - 10.5	06/30/99	0.10 U	0.11	0.10 U	0.10 U	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-111WT	5.5 - 10.5	05/19/00	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
MW-111WT	5.5 - 10.5	04/05/01	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	--	--	--	--	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	--	--	--	0.2 U [0.2 U]	0.2 U [0.2 U]	0.4 U [0.4 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.2 U [0.2 U]	0.4 U [0.4 U]
MW-111WT	5.5 - 10.5	08/26/05	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-111WT	5.5 - 10.5	04/02/08	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW-111WT	5.5-10.5	09/18/12	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.096 U	0.096 U	0.096 U	0.096 U	0.082 J	0.096 U	0.096 U	0.082 J
MW-111WT	5.5-10.5	09/26/13	0.095 U	0.450	0.095 U	0.095 U	.450	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U
MW-111WT	5.5-10.5	09/23/14	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U

Table 2
Analytical Data Summary Table - SMI Organics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	PCBs													
		Date Collected:	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs	Aroclor-1016 (Dissolved)	Aroclor-1221 (Dissolved)	Aroclor-1232 (Dissolved)	Aroclor-1242 (Dissolved)	Aroclor-1248 (Dissolved)	Aroclor-1254 (Dissolved)	Aroclor-1260 (Dissolved)	Total PCBs (Dissolved)
MDEQ GSI Criteria		--	--	--	--	0.2 (M)	--	--	--	--	--	--	--	0.2 (M)	
MW-111WT	5.5-10.5	10/01/15	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-111WT	5.5 - 10.5	09/29/16	0.19 U	0.21	0.19 U	0.19 U	0.21	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-111WT	5.5 - 10.5	08/31/17	0.95 U	0.95 U	0.95 U	0.95 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.067 J p	0.095 U	0.067 J p	
MW-114S2	22.5 - 27.5	07/17/95	--	--	--	--	--	0.2 U	0.2 U	0.41 U	0.2 U	0.2 U	0.2 U	0.41 U	
MW-114S2	22.5 - 27.5	06/07/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114S2	22.5 - 27.5	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	06/08/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	06/08/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	03/06/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	12/11/97	--	--	--	--	--	0.2 U	0.2 UJ	0.4 U	0.2 UJ	0.2 UJ	0.2 UJ	0.4 U	
MW-114WT	3.5 - 8.5	12/11/97	--	--	--	--	--	0.2 U	0.2 UJ	0.4 U	0.2 U	0.2 UJ	0.2 UJ	0.4 U	
MW-114WT	3.5 - 8.5	05/22/00	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	04/05/01	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	--	--	--	--	--	--	--	
MW-114WT	3.5 - 8.5	06/03/04	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-114WT	3.5 - 8.5	08/24/05	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
MW-114WT	3.5 - 8.5	09/26/13	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-114WT	3.5 - 8.5	09/23/14	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-114WT	3.5 - 8.5	10/02/15	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-114WT	3.5 - 8.5	09/29/16	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-114WT	3.5 - 8.5	08/31/17	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-149WT	7 - 17	06/12/96	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-149WT	7 - 17	03/10/97	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-149WT	7 - 17	09/29/16	--	--	--	--	--	--	--	--	--	--	--	--	
MW-185WT	3 - 8	06/03/04	--	--	--	--	--	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	
MW-185WT	3 - 8	08/25/05	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
MW-185WT	3 - 8	11/28/07	0.20 U [0.20 U]	0.17 J [0.20 U]	0.20 U [0.20 U]	0.20 U [0.20 U]	0.17 J [0.20 U]	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.06 J	0.06 J	
MW-185WT	3 - 8	09/18/12	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.041 J*	0.041 J	
MW-185WT	3 - 8	09/25/13	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-185WT	3 - 8	09/24/14	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-185WT	3 - 8	10/01/15	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-185WT	3 - 8	09/30/16	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-185WT	3 - 8	08/31/17	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	09/30/10	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	
MW-186WT	8-18	09/23/11	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	09/18/12	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	09/25/13	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	09/24/14	0.10 U [0.097 U]	0.10 U [0.097 U]	0.10 U [0.097 U]	0.10 U [0.097 U]	0.10 U [0.097 U]	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	10/02/15	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	
MW-186WT	8-18	09/30/16	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	
MW-186WT	8-18	08/31/17	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U [0.095 U]	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics							Inorganics-Dissolved				
			Arsenic	Barium	Cyanide (total)	Iron	Manganese	Selenium	Sodium	Arsenic (Dissolved)	Barium (Dissolved)	Cyanide (Dissolved)	Iron (Dissolved)	Manganese (Dissolved)
MDEQ GSI Criteria			680*	1758.8 (G)	5.2	--	6,203.8 (G,X)	5	--	680*	1758.8 (G)	5.2	--	6,203.8 (G,X)
MW-117S1	24.2 - 29.2	06/20/95	--	--	5.00 U	--	--	--	--	1.2	1,410	--	5,780	347
MW-117S1	24.2 - 29.2	07/14/95	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	06/11/96	--	--	--	--	--	--	--	--	1,670	--	8,260	330
MW-117S1	24.2 - 29.2	05/19/00	--	--	--	--	--	--	--	10 U	1,720	5 U	8,730	341
MW-117S1	24.2 - 29.2	06/19/01	--	--	--	--	--	--	--	10 U	1,740	5 U	9,120	340
MW-117S1	24.2 - 29.2	06/26/02	--	--	--	--	--	--	--	10 U	1,740	5 U	8,650	326
MW-117S1	24.2 - 29.2	06/19/03	--	--	--	--	--	--	--	10 U	1,800	5 U	9,160	354
MW-117S1	24.2 - 29.2	05/27/04	--	--	--	--	--	--	--	10 U	1,780	5 U	10,100	326 J
MW-117S1	24.2 - 29.2	06/23/05	--	--	--	--	--	--	--	2.7	1,530 J	10 U	8,150	289 J
MW-117S1	24.2 - 29.2	12/13/06	--	--	--	--	--	--	--	5 U	2,010	10 U	8,980	329
MW-117S1	24.2 - 29.2	12/07/07	--	--	--	--	--	--	--	5 U	1,890	10 U	9,480	332
MW-117S1	24.2 - 29.2	03/14/08	--	--	--	--	--	--	--	3.9 J	1,810	10 U	7,350	312
MW-117S1	24.2 - 29.2	10/01/10	--	--	--	--	--	--	--	0.005 U	1,800 J	100 U	8,980	307 J
MW-117S1	24.2 - 29.2	09/27/11	--	--	--	--	--	--	--	0.0016	2,000	--	9,500	330
MW-117S1	24.2 - 29.2	09/13/12	--	--	--	--	--	--	--	0.0016 J	1,800 B	10 U	8,600	300
MW-117S1	24.2 - 29.2	09/24/13	--	--	--	--	--	--	--	0.0043 B	2,000	10 U	3,900	510
MW-117S1	24.2 - 29.2	09/22/14	--	--	--	--	--	--	--	0.0046 B	2,100 B	10 U	12,000 B	290
MW-117S1	24.2 - 29.2	09/30/15	--	--	10 U	--	--	--	--	--	--	10 U	8,700	270
MW-117S1	24.2 - 29.2	09/27/16	--	--	< 0.010 U	--	--	--	--	1.9 J	1,500 B	10 U	9,000 B	270 B
MW-117S1	24.2 - 29.2	11/13/17	--	--	< 10 U	--	--	--	--	2.0	1,700	10 U	8,700	260
MW-117WT	3 - 13	06/20/95	--	--	5.00 U	--	--	--	--	1.3	2,210	--	100,000	5,130
MW-117WT	3 - 13	07/14/95	--	--	--	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	06/11/96	--	--	--	--	--	--	--	--	2,520	--	124,000	5,190
MW-117WT	3 - 13	05/19/00	--	--	--	--	--	--	--	10 U	3,580	5 U	149,000	5,510
MW-117WT	3 - 13	06/18/01	--	--	--	--	--	--	--	10 U	3,170	5 U	137,000	4,900
MW-117WT	3 - 13	06/26/02	--	--	--	--	--	--	--	2.2 B	2,970	5 U	128,000	4,850
MW-117WT	3 - 13	06/19/03	--	--	--	--	--	--	--	10 U	3,250	5 U	139,000	5,480
MW-117WT	3 - 13	12/09/04	--	--	--	--	--	--	--	4.1 [4.6 J]	3,110 J [2,880 J]	10 U [10 U]	143,000 J [125,000 J]	5,150 J [3,970 J]
MW-117WT	3 - 13	06/23/05	--	--	--	--	--	--	--	4.5	2,360 J	10 U	122,000	3,810 J
MW-117WT	3 - 13	12/13/06	--	--	--	--	--	--	--	5 U	2,710	10 U	105,000	4,000
MW-117WT	3 - 13	12/07/07	--	--	--	--	--	--	--	5 U	2,880	10 U	124,000	4,460
MW-117WT	3 - 13	03/14/08	--	--	--	--	--	--	--	5 U	2,670	10 U	112,000	4,160
MW-117WT	3 - 13	10/01/10	--	--	--	--	--	--	--	5 U	2,910 J	10 U	119,000	4,360 J
MW-117WT	3 - 13	09/27/11	--	--	--	--	--	--	--	2.5	3,300	--	130,000	4,700
MW-117WT	3 - 13	09/13/12	--	--	--	--	--	--	--	3.7	3,000 B	10 U	110,000	4,100
MW-117WT	3 - 13	09/24/13	--	--	--	--	--	--	--	4.8 B	3,100	10 U	130,000	7,000
MW-117WT	3 - 13	09/23/14	--	--	--	--	--	--	--	1.4 J,B	2,800 B	10 U	110,000 B	3,700
MW-117WT	3 - 13	09/30/15	--	--	10 U	--	--	--	--	3.0	2,100	10 U	83,000	2,900
MW-117WT	3 - 13	09/27/16	--	--	< 0.010 U	--	--	--	--	1.6 J	1,600 B	10 U	96,000 B	3,400 B
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	--	--	5.00 U	--	--	--	--	1.8	482	--	2,500	347
MW-118S1	23.5 - 28.5	07/14/95	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/11/96	--	--	--	4,970	372	--	--	--	532	--	5,390	383
MW-118S1	23.5 - 28.5	05/17/00	--	--	--	--	--	--	--	10 U [10 U]	593 [612]	5 U [5 U]	6,090 [6,150]	420 [415]
MW-118S1	23.5 - 28.5	06/19/01	--	--	--	--	--	--	--	10 U	645	5 U	7,070	428
MW-118S1	23.5 - 28.5	06/27/02	--	--	--	--	--	--	--	10 U	622	5 U	6,070	408
MW-118S1	23.5 - 28.5	06/19/03	--	--	--	--	--	--	--	10 U	713	5 U	7,570	476
MW-118S1	23.5 - 28.5	12/09/04	--	--	--	--	--	--	--	2.3 J	718 J	10 U	7,420 J	405 J
MW-118S1	23.5 - 28.5	06/23/05	--	--	--	--	--	--	--	1.9 B	676 JE	10 U	6,630	370 J
MW-118S1	23.5 - 28.5	12/14/06	--	--	--	--	--	--	--	5 U	727	10 U	5,930	401
MW-118S1	23.5 - 28.5	12/07/07	--	--	--	--	--	--	--	5 U	753	10 U	6,940	425
MW-118S1	23.5 - 28.5	04/01/08	--	--	--	--	--	--	--	5 U	763	10 U	6,340	413
MW-118S1	23.5 - 28.5	10/01/10	--	--	--	--	--	--	--	5 U	759 J	10 U	6,570	395 J
MW-118S1	23.5 - 28.5	09/27/11	--	--	--	--	--	--	--	0.58	810	10 U	6,700	410
MW-118S1	23.5 - 28.5	09/13/12	--	--	--	--	--	--	--	0.74	710 B	11	5,900	400
MW-118S1	23.5 - 28.5	09/24/13	--	--	--	--	--	--	--	18 B	970 B	10 U	3,900 B	470 B
MW-118S1	23.5 - 28.5	09/22/14	--	--	--	--	--	--	--	0.86 J	730 B	10 U	50 U	350
MW-118S1	23.5 - 28.5	09/30/15	--	--	10 U	--	--	--	--	1.6 J	890	10 U	7,700	340
MW-118S1	23.5 - 28.5	09/27/16	--	--	< 0.010 U	--	--	--	--	1.9 J	850 B	10 U	8,700 B	360 B
MW-118S1	23.5 - 28.5	11/13/17	--	--	< 10 U F1	--	--	--	--	1.4 J	750	10 U	8,500	460

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust

Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics							Inorganics-Dissolved				
			Arsenic	Barium	Cyanide (total)	Iron	Manganese	Selenium	Sodium	Arsenic (Dissolved)	Barium (Dissolved)	Cyanide (Dissolved)	Iron (Dissolved)	Manganese (Dissolved)
MDEQ GSI Criteria			680*	1758.8 (G)	5.2	--	6,203.8 (G,X)	5	--	680*	1758.8 (G)	5.2	--	6,203.8 (G,X)
MW-118WT	1.6 - 11.6	06/20/95	--	--	5.00 U	--	--	--	--	1	1,970	--	71,500	5,460
MW-118WT	1.6 - 11.6	07/14/95	--	--	--	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	06/11/96	--	--	--	81,900	4,990	--	--	--	2,420	--	93,100	5,390
MW-118WT	1.6 - 11.6	05/17/00	--	--	--	--	--	--	--	10 U	7,970	5 U	261,000	8,930
MW-118WT	1.6 - 11.6	06/19/01	--	--	--	--	--	--	--	5.1 B [7.4 B]	10,700 [11,200]	5 U [5 U]	330,000 [344,000]	7,740 [8,070]
MW-118WT	1.6 - 11.6	06/27/02	--	--	--	--	--	--	--	3.9 B [7.9 B]	8,650 [9,200]	5 U [5 U]	259,000 [277,000]	6,250 [6,360]
MW-118WT	1.6 - 11.6	06/19/03	--	--	--	--	--	--	--	10 U [10 U]	5,620 [5,420]	5 U [5 U]	173,000 [166,000]	4,110 [4,000]
MW-118WT	1.6 - 11.6	05/27/04	--	--	--	--	--	--	--	3.2	4,350	5 U	135,000	3,080 J
MW-118WT	1.6 - 11.6	06/23/05	--	--	--	--	--	--	--	3.4	2,210 J	10 U	92,400	1,560 J
MW-118WT	1.6 - 11.6	12/14/06	--	--	--	--	--	--	--	5 U	1,400	10 U	39,200	1,050
MW-118WT	1.6 - 11.6	12/07/07	--	--	--	--	--	--	--	5 U	1,120	10 U	35,400	881
MW-118WT	1.6 - 11.6	04/01/08	--	--	--	--	--	--	--	5 U	1,040	10 U	30,500	800
MW-118WT	1.6 - 11.6	09/30/10	--	--	--	--	--	--	--	5 U	571 J	10 U	16,900	448 J
MW-118WT	1.6 - 11.6	09/27/11	--	--	--	--	--	--	--	1.1	600	--	16,000	470
MW-118WT	1.6 - 11.6	09/13/12	--	--	--	--	--	--	--	0.80 J	390	--	11,000	340
MW-118WT	1.6 - 11.6	09/24/13	--	--	--	--	--	--	--	0.72 J,B	390 B	10 U	8,700 B	330 B
MW-118WT	1.6 - 11.6	09/22/14	--	--	--	--	--	--	--	0.37 J,B	360 B	10 U	8,600 B	300
MW-118WT	1.6 - 11.6	09/30/15	--	--	10 U	--	--	--	--	0.85 J	300	10 U	7,100	270
MW-118WT	1.6 - 11.6	09/27/16	--	--	< 0.010 U	--	--	--	--	1.0 J	300 B	10 U	8,500 B	300 B
MW-118WT	1.6 - 11.6	11/13/17	--	--	< 10 U	--	--	--	--	2.0 U	370	5.8 J	15,000	570
MW-183WT	6 - 16	12/06/07	--	--	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	01/09/08	5.00 U [5.00 U]	44.1 J [44.3 J]	--	1,200 J [669 J]	514 [429 J]	5.00 U [5.00 U]	97,200 [99,800]	5 U [5 U]	45.6 J [44.2 J]	10 U [10 U]	714 J [1,280 J]	440 [565 J]
MW-183WT	6 - 16	03/12/08	5.00 U	52.6 J	--	659	611	5.00 U	99,000	3.3 J	51.4 J	10 U	298	608
MW-183WT	6 - 16	09/28/10	5.0 U [6.90]	38.2 BJ [37.7 BJ]	--	3,850 [3,630]	252 [248]	5.0 U [5.0 U]	--	5.0 U [5.0 U]]	36.8 BJ [37 BJ]	10 U	3.06 [3.02]	243 [238]
MW-183WT	6 - 16	09/28/11	1.90 [2.0]	36.0 [38.0]	--	2,600 [2,600]	240 [260]	5.0 U [5.0 U]	--	2.0	39	--	2,600	250
MW-183WT	6 - 16	09/14/12	1.0 [0.73 J]	79 B [85 B]	--	2,200 [2,100]	400 B [440 B]	5.0 U [5.0 U]	--	1.4 J	78 B	10 U	2,100	400 B
MW-183WT	6 - 16	09/24/13	3.9 B [3.3 B]	85 B [83 B]	--	4,500 B [3,800 B]	500 B [490 B]	5.0 U [5.0 U]	--	3.2 B	82 B	10 U	3,400 B	490 B
MW-183WT	6 - 16	09/23/14	1.8 J,B [1.9 J,B]	43 B [45 B]	--	2,300 B [2,600 B]	460 [540]	0.32 J,B [0.27 J,B]	--	1.9 J,B [1.9 J,B]	460 B [470 B]	10 U	2,700 B [2,600 B]	550 [560]
MW-183WT	6 - 16	10/01/15	1.5 J [1.3 J]	46 [45]	--	2,500 [2,400]	350 [330]	0.69 J,B [0.55 J,B]	--	1.7 J	44	10 U	2,600	350
MW-183WT	6 - 16	09/28/16	6.0	41 B	0.010 U	5,000 B	1,100 B	0.82 J	49,000	4.1	40 B	10 U	5,300 B	1,100 B
MW-183WT	6 - 16	08/29/17	5.8 [4.6]	50 F1 [41]	10 U F1 F2	4,200 [3,600]	1,700 [1,300]	5.0 U [5.0 U]	38,000 [35,000]	4.8	45	10 U F1 F2	3,800	1,500
TWW-1	1.5 - 6.5	01/25/97	--	--	--	--	--	--	--	5 U	200 UL	10 U	110	2,110
TWW-1	1.5 - 6.5	05/21/00	10.0 U	146	--	100 U	1,580	5.00 U	839,000	10 U	145	--	127 U	1,610
TWW-1	1.5 - 6.5	05/29/08	--	--	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	09/27/16	--	--	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	09/27/16	--	--	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	08/30/17	--	--	--	--	--	--	--	--	--	--	--	--
X-10BR	26.3 - 31.3	07/24/95	--	--	5.00 U	--	--	--	--	32	387	--	22,600	457
X-10BR	26.3 - 31.3	12/15/06	--	--	--	--	--	--	--	27.6	598	10 U	30,500	691
X-10BR	26.3 - 31.3	12/04/07	--	--	--	--	--	--	--	29.5	570	10 U	32,700	696
X-10BR	26.3 - 31.3	03/12/08	--	--	--	--	--	--	--	33	597	10 U	31,800	716
X-10BR	26.3 - 31.3	09/29/10	--	--	--	--	--	--	--	28.5	581 J	10 U	31,700	751
X-10BR	26.3 - 31.3	09/22/11	--	--	--	--	--	--	--	30	630	10 U	35,000	750
X-10BR	26.3 - 31.3	09/14/12	--	--	--	--	--	--	--	27	570	10 U	30,000	730 B^
X-10BR	26.3 - 31.3	09/24/13	--	--	--	--	--	--	--	28 B	630	10 U	33,000	750
X-4AR	3.3 - 8.3	07/24/95	12.7	431	5.00 U	72,400	1,500	5.00 U	20,700	1.2	200 U	--	1,080	248
X-4AR	3.3 - 8.3	06/09/96	5.00 U	200 U	5.00 U	399	41.9	5.00 U	21,900	5 U	200 U	5 U	289	44.4
X-4AR	3.3 - 8.3	05/21/00	10.0 U	73.3 B	--	193 U	15.0 U	5.00 U	20,700	10 U	73.9 B	--	100 U	15 U
X-4AR	3.3 - 8.3	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	--	--	5.00 U	--	--	--	--	1 UJ	200 U	--	1,970	447
X-4CAUG	18 - 23	06/08/96	--	--	--	--	--	--	--	5 U	200 U	5 UJ	1,980	464
X-4CAUGR	14 - 19	01/09/08	5.00 U	114	--	4,600	397	5.00 U	73,900	5 U	123	10 U	4,940	427
X-4CAUGR	14 - 19	03/12/08	5.00 U	129	--	5,060	495	5.00 U	55,400	5 U	137	10 U	5,020	535
X-4CAUGR	14 - 19	09/28/10	5.00 U	132 J	--	4,930	559	5.00 U	54,000	5 U	129 J	10 U	5,180	571
X-4CAUGR	14 - 19	09/26/11	0.740	140	--	5,400	620	5.00 U	44,000	0.45	130	10 U	5,000	590
X-4CAUGR	14 - 19	09/14/12	0.42 J	120 B	--	4,500	560 B^	5.00 U	53,000	0.40 J	120 B	10 U	4,400	570 B^
X-4CAUGR	14 - 19	09/24/13	1.9 B	89	--	6,700	730	5.00 U	22,000 B	6.9 B	89 B	10 U	6,300 B	760 B
X-4CAUGR	14 - 19	09/23/14	2.3 B	130 B	--	9,100 B	610	0.36 J,B	59,000 B	2.2 B	140 B	10 U	9,000 B	610
X-4CAUGR	14 - 19	09/30/15	2.0	120	10 U	6,500	430	0.56 J	64,000 B	2.1	140	10 U	7,800	500
X-4CAUGR	14 - 19	09/28/16	1.3 J	100 B	0.010 U	4,900 B	380 B	0.92 J	78,000	1.1 J	96 B	10 U	4,700 B	370 B
X-4CAUG	14 - 19	08/29/17	0.84 J	110	10 U	4,800	420	--	9,200	0.84 J	110	10 U	4,700	450

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics							Inorganics-Dissolved				
			Arsenic	Barium	Cyanide (total)	Iron	Manganese	Selenium	Sodium	Arsenic (Dissolved)	Barium (Dissolved)	Cyanide (Dissolved)	Iron (Dissolved)	Manganese (Dissolved)
MDEQ GSI Criteria			680*	1758.8 (G)	5.2	--	6,203.8 (G,X)	5	--	680*	1758.8 (G)	5.2	--	6,203.8 (G,X)
X-4D	40 - 45	01/09/08	5.00 U	125	--	2,250	327	5.00 U	733,000	5 U	124	10 U	2,080	318
X-4D	40 - 45	04/01/08	--	--	--	--	--	--	--	5 U [5 U]	112 [111]	10 U [10 U]	1,930 [1,780]	263 [258]
X-4D	40 - 45	04/03/08	5.00 U	110	--	1,640	263	5.00 U	701,000	--	--	--	--	--
X-4D	40 - 45	06/05/08	--	--	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	09/28/10	5.0 U	99.7 BJ	--	1,030	265	5.00 U	699,000	5 U	98.9 BJ	10 U	979	275
X-4D	40 - 45	09/26/11	1.10	100	--	1,400	190	5.00 U	720,000	.94	99	10 U	1,300	180
X-4D	40 - 45	09/14/12	1.1	86 B	--	980	180 B	5.00 U	690,000	0.89 J	87 B	10 U	1,000	190 B^
X-4D	40 - 45	09/24/13	0.91 J,B	92	--	1,300	160	5.00 U	690,000	0.79 J,B	89 B	10 U	1,200	160 B
X-4D	40 - 45	09/23/14	0.49 J,B	58 B	--	290 J,B	340	0.42 J,B	260,000 B	0.53 J,B	82 B	10 U	35 J,B	180
X-4D	40 - 45	09/30/15	1.2 J	87	10 U	1,000	160	2.0 J,B	660,000	1.1 J	82	10 U	740	180
X-4D	40 - 45	09/28/16	0.85 J	93 B	0.010 U	1,200 B	200 B	5.0 U	660,000	0.97 J	91 B	10 U	1,100 B	200 B
X-4D	40 - 45	08/29/17	2.0 U	83	10 U	50 U	190	5.0 U	1,600,000	2.0 U	84	10 U	50 U	180
X-9AR	3 - 13	07/24/95	1.60	200 U	5.00 U	11,100	770	5.00 U	340,000	2.1	200 U	--	9,170	674
X-9AR	3 - 13	06/09/96	5.00 U	200 U	5.00 U	2,900	348	5.00 U	57,200	5 U	200 U	5 UJ	3,190	382
X-9AR	3 - 13	12/15/06	5.00 U	94.0 J	--	1,090	157	5.00 U	55,000	5 U	91.2 J	10 U	965	153
X-9AR	3 - 13	01/10/08	5.00 U	108	--	5,510	318	5.00 U	58,600	5 U	110	10 U	5,620	325
X-9AR	3 - 13	03/11/08	5.00 U	51.8 J	--	100 U	6.80 J	8.20	34,300	5 U	51.2 J	10 U	134	3.1 J
X-9AR	3 - 13	06/05/08	--	--	--	--	--	4.60 B [5.00 U]	--	--	--	--	--	--
X-9AR	3 - 13	09/29/10	5.00 U	113 J	--	6,320	380	5.00 U	55,600	5 U	116 J	10 U	6,580	388
X-9AR	3 - 13	09/23/11	0.40	200	--	6,600	770	5.00 U	95,000	2 U	200	10 U	6,600	750
X-9AR	3 - 13	09/12/12	0.43 J	190	--	5,400	790 B^	5.00 U	120,000	2 U	190	10 U	5,500	780 B^
X-9AR	3 - 13	09/25/13	6	220 B	--	10,000 B	840 B	5.00 U	120,000 B	5.5	220 B	10 U	8,900 B	670 B
X-9AR	3 - 13	09/22/14	1.2 J	160 B	--	8,800	570	5.00 U	60,000 B	1.3 J	170 B	10 U	9,100	590
X-9AR	3 - 13	10/01/15	0.63 J	91	10 U	5,000	310	0.55 J,B	39,000 B	2.0 U	87	10 U	4,700	300
X-9AR	3 - 13	09/28/16	0.50 *J	100	< 0.010 U	5,600	360	0.62 J	39,000	0.61 *J	97	10 U	5,500	360
X-9AR	3 - 13	08/29/17	2.4	56	10 U	2,900	1,300	5.0 U	11,000	2.4	--	10 U	2,300	1,400
X-9BR	26 - 31	07/24/95	--	--	5.00 U	--	--	--	--	1 UJ	200 U	--	3,360	763
X-9BR	26 - 31	06/08/96	--	--	--	--	--	--	--	5 U	200 U	5 UJ	2,490	813
X-9BR	26 - 31	12/15/06	5.00 U [5.00 U]	143 [148]	--	3,070 [3,120]	777 [801]	5.00 U [5.00 U]	102,000 [102,000]	5 U	153	10 U	4,450	717
X-9BR	26 - 31	01/08/08	5.00 U	155	--	4,160	833	5.00 U	122,000	5 U	103	10 U	2,790	541
X-9BR	26 - 31	03/11/08	5.00 U	147	--	2,590	903	5.00 U	81,200	5 U	136	10 U	2,560	828
X-9BR	26 - 31	09/28/10	5.00 U	175 J	--	3,970	893	5.00 U	151,000	5 U	164 J	10 U	4,060	848
X-9BR	26 - 31	09/23/11	0.650	180	--	3,700	960	5.00 U	140,000	0.63	180	10 U	3,700	960
X-9BR	26 - 31	09/12/12	0.940 J	170	--	5,100	900 B^	5.00 U	190,000	0.91 J	160	10 U	5,300	850 B^
X-9BR	26 - 31	09/25/13	6.2	130 B	--	9,200 B	620 B	5.00 U	210,000 B	6.6	140 B	10 U	9,000 B	740 B
X-9BR	26 - 31	09/22/14	2.0	170 B	--	10,000	610	0.25 J	230,000 B	1.9 J	160 B	10 U	10,000	630
X-9BR	26 - 31	10/01/15	1.6 J	160	10 U	8,700	560	0.74 J,B	210,000 B	1.7 J	170	10 U	8,700	560
X-9BR	26 - 31	09/28/16	1.7 *J	150	< 0.010 U	7,500	550	0.72 J	230,000	1.8 *J	150	10 U	7,900	530
X-9BR	26 - 31	08/29/17	2.1	170	10 U	8,700	520	5.0 U	250,000	2.1	170	10 U	8,600	520
X-9CAUG	20 - 25	07/24/95	--	--	5.00 U	--	--	--	--	1 UJ	200 U	--	7,500	628
X-9CAUG	20 - 25	06/08/96	--	--	--	--	--	--	--	5 U	200 U	5 UJ	8,900	615
X-9CAUG	20 - 25	12/15/06	5.00 U	176	--	6,920	632	5.00 U	59,400	5 U	173	10 U	6,730	630
X-9CAUG	20 - 25	01/08/08	5.00 U	381	--	2,980	616	5.00 U	72,800	5 U	360	10 U	2,810	586
X-9CAUG	20 - 25	03/11/08	5.00 U	167	--	6,410	679	5.00 U	59,900	5 U	174	10 U	6,730	699
X-9CAUG	20 - 25	09/28/10	5.00 U	193 J	--	5,420	760	5.00 U	100,000	5 U	194 J	10 U	5,790	801
X-9CAUG	20 - 25	09/23/11	1.50	110	--	6,000	350	5.00 U	54,000	1.7	120	10 U	6,000	350
X-9CAUG	20 - 25	09/12/12	1.9 J	110 B	--	4,700	340	0.68 J	47,000	0.12 J	100 B	10 U	5,200	340
X-9CAUG	20 - 25	09/25/13	1.8 J	89 B	--	4,500 B	290 B	5.00 U	47,000 B	1.8 J	87 B	10 U	4,400 B	300 B
X-9CAUG	20 - 25	09/22/14	1.1 J,B	84 B	--	5,700 B	330	0.40 J,B	38,000 B	1.1 J,B	860 B	10 U	5,700 B	350
X-9CAUG	20 - 25	09/30/15	1.3 J	210	--	9,800	640	0.32 J	88,000 B	1.1 J,B	190	10 U	10,000	550
X-9CAUG	20 - 25	09/28/16	0.97 *J	260	< 0.010 U	8,400	740	0.89 J	120,000	1.0 *J	250	10 U	9,900	690
X-9CAUG	20 - 25	08/29/17	2.0 U	220	10 U	12,000	530	5.0 U	42,000	2.0 U	230	10 U	12,000	570
X-9D	42.5 - 47.5	01/08/08	5.00 U	94.2 J	--	3,640	186	5.00 U	717,000	5 U	87.8 J	10 U	3,370	173
X-9D	42.5 - 47.5	03/11/08	5.00 U	80.7 J	--	3,150	149	5.00 U	635,000	5 U	86.6 J	10 U	3,570	155
X-9D	42.5 - 47.5	03/12/08	--	--	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	06/05/08	--	--	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	09/28/10	5.00 U	93.0 BJ	--	2,930	132	5.00 U	685,000	5 U	90.3 BJ	10 U	2,670	125
X-9D	42.5 - 47.5	09/23/11	0.640	100	--	3,100	130	5.00 U	690,000	0.63	95	10 U	2,900	120
X-9D	42.5 - 47.5	09/12/12	0.67 J	84 B	--	2,500	110	5.00 U	650,000	0.83 J	88 B	10 U	2,700	120
X-9D	42.5 - 47.5	09/25/13	21	140 B	--	3,100 B	360 B	5.00 U	690,000 B	22	140 B	10 U	2,900 B	390 B
X-9D	42.5 - 47.5	09/22/14	15	110 B	--	3,000	170	0.58 J	680,000 B	16	110 B	10 U	2,800	170
X-9D	42.5 - 47.5	09/30/15	9.5	100	10 U	2,800	140	0.49 J	630,000 B	7.3	85	10 U	1,900	180
X-9D	42.5 - 47.5	09/28/16	3.8	94	< 0.010 U	1,500	130	0.52 J	630,000 B	5.0	91	10 U	2,200	120
X-9D	42.5 - 47.5	08/29/17	1.2 J	54	10 U	50 U	75	5.0 U	330,000	0.76 J	74	10 U	50 U	130

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust

Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics-Dissolved		Miscellaneous						Miscellaneous		
			Selenium (Dissolved)	Sodium (Dissolved)	Ammonia Nitrogen	Chloride	Nitrate (as N)	Nitrite (as N)	Nitrogen	pH	Sulfate	Sulfide	Total Dissolved Solids (TDS)
MDEQ GSI Criteria			5	NA	(CC)	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	06/20/95	5 UJ	101,000	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	07/14/95	--	--	1,000 UJ	230,000	--	--	--	--	--	--	990,000
MW-117S1	24.2 - 29.2	06/11/96	--	108,000	--	--	--	--	--	--	--	--	--
MW-117S1	24.2 - 29.2	05/19/00	5 U	120,000	5,100	284,000 J	1,000 UG	1,000 UG	--	7	2,000 UG	--	840,000
MW-117S1	24.2 - 29.2	06/19/01	5 U	121,000	11,000	269,000	500 U	R	--	8	260 B	--	920,000
MW-117S1	24.2 - 29.2	06/26/02	5 U	114,000	7,100	270,000	500 U	500 U	--	8	140 B	--	970,000
MW-117S1	24.2 - 29.2	06/19/03	5 U	118,000	7,400	264,000	500 U	140 BJ	--	8.1	1,000 UJ	--	1,000,000
MW-117S1	24.2 - 29.2	05/27/04	5 U	115,000	7,300	275,000	500 U	160 B	--	7	440 B	--	1,000,000
MW-117S1	24.2 - 29.2	06/23/05	5.4	118,000	8,400 J	270,000	100 U	100 U	--	7	1,000 U	--	970,000 J
MW-117S1	24.2 - 29.2	12/13/06	5 U	118,000	8,200	267,000	100 U	100 U	--	7.1 J	1,000 U	--	960,000
MW-117S1	24.2 - 29.2	12/07/07	5 U	129,000	22,000	268,000	100 U	100 U	--	7	1,000 U	--	950,000
MW-117S1	24.2 - 29.2	03/14/08	5 U	113,000	1,200	274,000	100 UJ	100 UJ	--	6.9	1,000 U	--	940,000
MW-117S1	24.2 - 29.2	10/01/10	5 U	119,000	6,500	319,000	100 U	100 U	--	7	1,000 U	--	940,000
MW-117S1	24.2 - 29.2	09/27/11	5 U	120,000	8,400	270,000	100 U	100 U	--	7.14	1,000 U	--	970,000
MW-117S1	24.2 - 29.2	09/13/12	5 U	110,000	7,800	270,000	100 U	100 U	--	6.99	1,000 U	--	930,000
MW-117S1	24.2 - 29.2	09/24/13	5 U	120,000	7,000 B	250,000	100 U	100 U	--	7.15	450 J	--	880,000
MW-117S1	24.2 - 29.2	09/22/14	0.29 J,B	120,000 B	7,800	260,000	100 U , H	100 U, H	--	7.07	1,000 U	--	880,000
MW-117S1	24.2 - 29.2	09/30/15	0.52 J, B	110,000 B	6,500	240,000	500 U	500 U	--	6.78 HF	5,000 U	--	930,000
MW-117S1	24.2 - 29.2	09/27/16	0.57 J	120,000	10,000 B	250,000	50 U	50 U	--	7.0 HF	1,000 U	--	870,000
MW-117S1	24.2 - 29.2	11/13/17	5.0 U	110,000	8,500	240,000	50 U	50 U	--	7.0 HF	1,000 U	--	950,000
MW-117WT	3 - 13	06/20/95	5 UJ	463,000	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	07/14/95	--	--	30,000 J	4,600,000	--	--	--	--	--	--	11,000,000
MW-117WT	3 - 13	06/11/96	--	499,000	--	--	--	--	--	--	--	--	--
MW-117WT	3 - 13	05/19/00	5 U	590,000	46,000	4,930,000 J	12,500 UG	12,500 UG	--	6.4	25,000 UG	--	11,000,000
MW-117WT	3 - 13	06/18/01	5 U	559,000	63,000	5,380,000	500 U	R	--	7.1	230 B	--	13,000,000
MW-117WT	3 - 13	06/26/02	5 U	539,000	63,000	5,540,000	1,000 U	25,000 U	--	7.2	320 B	--	11,000,000 J [12,000,000]
MW-117WT	3 - 13	06/19/03	5 U	628,000	63,000	4,680,000	1,000 U	25,000 U	--	7.1	340 BJG	--	13,000,000
MW-117WT	3 - 13	12/09/04	14 J [14.3 J]	--	65,000 [69,000]	4,650,000 J [4,420,000 J]	100 U [100 U]	1,000 UG [1,000 UG]	--	7.2 [7.2]	240 B [1,000 U]	--	7,800,000 J [7,900,000 J]
MW-117WT	3 - 13	06/23/05	16.1	564,000	59,000 J	3,970,000	100 U	2,000 U	--	6.4	230 B	--	9,600,000 J
MW-117WT	3 - 13	12/13/06	5 U	531,000	75,000	3,680,000	750	3,600	--	6.5 J	270 J	--	7,800,000
MW-117WT	3 - 13	12/07/07	5 U	620,000	68,000	3,690,000	100 U	100 U	--	6.4	800 J	--	7,600,000
MW-117WT	3 - 13	03/14/08	5 U	545,000	68,000	3,220,000	200 UJ	200 UJ	--	6.3	2,000 U	--	5,900,000
MW-117WT	3 - 13	10/01/10	5 U	604,000	64,000	5,210,000	100 U	5,000 U, G	--	6.5	1,000 U	--	7,900,000
MW-117WT	3 - 13	09/27/11	5 U	560,000	71,000	4,300,000	100 U	2,500 U	--	6.57	380	--	9,800,000
MW-117WT	3 - 13	09/13/12	0.78 J	560,000 B	78,000	4,600,000	100 U	5,000 U	--	6.43	350 J	--	9,900,000
MW-117WT	3 - 13	09/24/13	5 U	570,000	86,000 B	4,500,000 B	100 U	1000 U	--	6.59	710 J	--	7,300,000
MW-117WT	3 - 13	09/23/14	0.59 J,B	520,000 B	3,000^	3,700,000	1000 U, H	1000 U, H	--	6.53	10,000 U	--	6,300,000
MW-117WT	3 - 13	09/30/15	1.0 J B	450,000 B	60,000	3,500,000	2,500 U	2,500 U	--	6.29 HF	2,500 U	--	5,700,000
MW-117WT	3 - 13	09/27/16	1.5 J	470,000	81 B	3,500 ,000	50 U	50 U	--	6.5 HF	250 J	--	4,800,000
MW-117WT	3 - 13	10/13/16	--	--	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	06/20/95	5 UJ	97,300	--	--	--	--	--	--	--	--	--
MW-118S1	23.5 - 28.5	07/14/95	--	--	4,800 J	260,000	--	--	--	--	--	--	8,000,000
MW-118S1	23.5 - 28.5	06/11/96	--	112,000	--	--	80 U	70 U	--	--	5,000 U	800	--
MW-118S1	23.5 - 28.5	05/17/00	5 U [5 U]	121,000 [122,000]	5,900 [6,200]	284,000 [281,000]	2,000 UG [2,000 UG]	2,000 UG [2,000 UG]	50 U	7 [7]	4,000 UG [4,000 UG]	2,000 U	930,000 [940,000]
MW-118S1	23.5 - 28.5	06/19/01	5 U	117,000	8,400	272,000	500 U	R	--	8	150 B	--	910,000
MW-118S1	23.5 - 28.5	06/27/02	5 U	112,000	7,300	286,000	500 U	500 U	--	7.1	1,600	--	1,200,000 [1,200,000]
MW-118S1	23.5 - 28.5	06/19/03	5 U	118,000	6,200	264,000	500 U	500 U	--	8.1	1,000 UJ	--	1,000,000
MW-118S1	23.5 - 28.5	12/09/04	5.9 J	--	5,900	270,000 J	100 U	100 U	--	8	1,000 U	--	980,000 J
MW-118S1	23.5 - 28.5	06/23/05	3.5	112,000	7,300 J	296,000	100 U	100 U	--	7	1,000 U	--	520,000 J
MW-118S1	23.5 - 28.5	12/14/06	5 U	115,000	8,000	290,000	100 U	160	--	7.1 J	1,000 U	--	1,000,000
MW-118S1	23.5 - 28.5	12/07/07	5 U	131,000	8,500	275,000	100 U	100 U	--	7	1,000 U	--	900,000
MW-118S1	23.5 - 28.5	04/01/08	5 U	115,000	8,100	310,000	100 U	100 U	--	6.9	4,700	--	960,000
MW-118S1	23.5 - 28.5	10/01/10	5 U	129,000	6,700	362,000	100 U	100 U	--	7	1,000 U	--	970,000
MW-118S1	23.5 - 28.5	09/27/11	5 U	130,000	7,900	290,000	100 U	100 U	--	7.19	1,000 U	--	1,000,000
MW-118S1	23.5 - 28.5	09/13/12	5 U	130,000	7,200	290,000	100 U	100 U	--	7.10	1,000 U	--	960,000
MW-118S1	23.5 - 28.5	09/24/13	0.47 J	150,000 B	6,900 B	300,000 B	100 U	100 U	--	7.19	320 J	--	920,000
MW-118S1	23.5 - 28.5	09/22/14	5 U	130,000 B	7,500	320,000	100 U	100 U	--	7.06	1,000 U	--	980,000
MW-118S1	23.5 - 28.5	09/30/15	0.58 J B	120,000 B	5,900	310,000	500 U	500 U	--	6.94 HF	5,000 U	--	1,000,000
MW-118S1	23.5 - 28.5	09/27/16	1.0 J	130,000	9,900 B	290,000	50 U	50 U	--	7.0 HF	1,000 U	--	930,000
MW-118S1	23.5 - 28.5	11/13/17	5.0 U	100,000	7,600	260,000	31 J	31 J	--	7.1 HF	1,000 U	--	920,000

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics-Dissolved		Miscellaneous						Miscellaneous		
			Selenium (Dissolved)	Sodium (Dissolved)	Ammonia Nitrogen	Chloride	Nitrate (as N)	Nitrite (as N)	Nitrogen	pH	Sulfate	Sulfide	Total Dissolved Solids (TDS)
MDEQ GSI Criteria			5	NA	(CC)	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	06/20/95	5 UJ	175,000	--	--	--	--	--	--	--	--	--
MW-118WT	1.6 - 11.6	07/14/95	--	--	10,000 J	3,700,000	--	--	--	--	--	--	1,400,000
MW-118WT	1.6 - 11.6	06/11/96	--	229,000	--	--	80 U	70 U	--	--	5,000 U	390	--
MW-118WT	1.6 - 11.6	05/17/00	5 U	647,000	26,000	16,100,000	50,000 UG	50,000 UG	50 U	6.2	100,000 UG	2,000 U	37,000,000
MW-118WT	1.6 - 11.6	06/19/01	5 U [5 U]	955,000 [976,000]	92,000 [76,000]	21,800,000 [18,800,000]	50,000 U [500 U]	R [R]	--	6.9 [7]	100,000 U [630 B]	--	34,000,000 [36,000,000]
MW-118WT	1.6 - 11.6	06/27/02	5 U [5 U]	925,000 [970,000]	82,000 [88,000]	16,900,000 [16,500,000]	2,500 U [2,500 U]	2,500 U [2,500 U]	--	6.8 [6.3]	590 B [560 B]	--	42,000,000 [41,000,000]
MW-118WT	1.6 - 11.6	06/19/03	5 U [5 U]	764,000 [735,000]	66,000 [65,000]	9,740,000 [9,470,000]	2,000 U [2,000 U]	50,000 U [50,000 U]	--	7.7 [7]	700 BJG [1,200 BJG]	--	23,000,000 [24,000,000]
MW-118WT	1.6 - 11.6	05/27/04	5 U	662,000	66,000	7,580,000	1,000 U	25,000 U	--	6.4	2,000 U	--	15,000,000
MW-118WT	1.6 - 11.6	06/23/05	16.3	541,000	47,000 J	4,670,000	100 U	2,000 U	--	6.4	5,000	--	12,000,000 J
MW-118WT	1.6 - 11.6	12/14/06	5 U	408,000	42,000	2,370,000	100 U	1,900	--	6.6 J	25,300	--	6,800,000
MW-118WT	1.6 - 11.6	12/07/07	5 U	406,000	42,000	1,760,000	100 U	100 U	--	6.7	17,600	--	4,600,000
MW-118WT	1.6 - 11.6	04/01/08	5 U	334,000	38,000	1,800,000	100 U	100 U	--	6.6	23,500	--	4,600,000
MW-118WT	1.6 - 11.6	09/30/10	5 U	216,000	34,000	932,000	100 U	1,000 U, G	--	6.8	10,000	--	2,000,000
MW-118WT	1.6 - 11.6	09/27/11	5 U	200,000	38,000	730,000	100 U	100 U	--	6.94	5,200	--	2,300,000
MW-118WT	1.6 - 11.6	09/13/12	5 U	140,000	35,000	410,000	100 U	100 U	--	6.95	2,300	--	1,300,000
MW-118WT	1.6 - 11.6	09/24/13	5 U	120,000 B	35,000 B	280,000 B	100 U	100 U	--	7.12	18,000	--	1,000,000
MW-118WT	1.6 - 11.6	09/22/14	0.27 J,B	86,000 B	29,000	260,000	100 U, H	100 U, H	--	7.06	19,000	--	990,000
MW-118WT	1.6 - 11.6	09/30/15	1.6 J,B	70,000 B	24,000	230,000	500 U	500 U	--	6.79 HF	9,300	--	980,000
MW-118WT	1.6 - 11.6	09/27/16	1.0 J	82,000	37,000 B	240,000	50 U	50 U	--	7.0 HF	6.1	--	900,000
MW-118WT	1.6 - 11.6	11/13/17	5.0 U	82,000	24,000	270,000	50 U	50 U	--	7.0 HF	1,000 U	--	1,000,000
MW-183WT	6 - 16	12/06/07	--	--	--	--	--	--	--	--	--	--	--
MW-183WT	6 - 16	01/09/08	5 U [5 U]	102,000 [98,000]	400 [300]	147,000 [148,000]	100 U [100 U]	100 U [100 U]	--	7.3 [7.3]	1,000 [700 J]	--	440,000 [470,000]
MW-183WT	6 - 16	03/12/08	5 U	100,000	300	147,000	100 U	100 U	--	7.3	2,600 U	--	520,000
MW-183WT	6 - 16	09/28/10	5.0 U [5.0 U]	87.4 [85.6]	800 J [800 J]	76,600 [77,400]	100 U [100 U]	100 U [100 U]	--	7.4 [7.4]	1,000 U [1,000 U]	--	360,000 [370,000]
MW-183WT	6 - 16	09/28/11	5.0 U	94,000	530 [550]	63,000 [63,000]	100 U [100 U]	100 U [100 U]	--	7.52 [7.47]	11,000 [11,000]	--	410,000 [430,000]
MW-183WT	6 - 16	09/14/12	0.78 J	93,000	920 [1,100]	36,000 [46,000]	100 U [100 U]	100 U [100 U]	--	7.42 [7.33]	200,000 [200,000]	--	600,000 [600,000]
MW-183WT	6 - 16	09/24/13	5.0 U	100,000 B	1,100 B [800 B]	36,000 B [36,000 B]	100 U, H [100 U, H]	100 U, H [100 U, H]	--	7.37 [7.35]	89,000 [88,000]	--	570,000 [570,000]
MW-183WT	6 - 16	09/23/14	0.27 J,B [5.0 U]	47,000 B [47,000 B]	200 U [140 J]	29,000 [23,000]	100 U, H [100 U, H]	100 U, H [100 U, H]	--	7.25 [7.21]	3,200 [2,900 J]	--	410,000 [400,000]
MW-183WT	6 - 16	10/01/15	0.72 J,B	52,000	750 [840]	32,000 F1 [33,000]	100 U [100 U]	100 U [100 U]	--	7.25 HF [7.07 HF]	1,000 U [1,000 U]	--	410,000 [410,000]
MW-183WT	6 - 16	09/28/16	1.5 J	50,000	940 J,B	28	50 U, F1	50 U, F1	--	7.2 HF	970 J	--	400
MW-183WT	6 - 16	08/29/17	5.0 U	37,000	350 [490]	21,000 [21,000]	50 U [50 U]	50 U [50 U]	--	7.1 HF [7.1 HF]	3,100 [3,200]	--	390,000 [390,000]
TWW-1	1.5 - 6.5	01/25/97	5 U	858,000	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	05/21/00	5 U	845,000	--	--	--	--	50 U	--	340,000	2,000 U	--
TWW-1	1.5 - 6.5	05/29/08	--	--	200	--	--	--	--	--	--	--	1,600,000
TWW-1	1.5 - 6.5	09/27/16	--	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	09/27/16	--	--	--	--	--	--	--	--	--	--	--
TWW-1	1.5 - 6.5	08/30/17	--	--	--	--	--	--	--	--	--	--	--
X-10BR	26.3 - 31.3	07/24/95	5 U	149,000	--	--	--	--	--	--	--	--	--
X-10BR	26.3 - 31.3	12/15/06	5 U	192,000	6,000	505,000	100 U	300	--	6.8 J	1,000 U	--	1,600,000
X-10BR	26.3 - 31.3	12/04/07	5 U	198,000	4,500	497,000	100 U	100 U	--	6.9	1,000 U	--	1,400,000
X-10BR	26.3 - 31.3	03/12/08	5 U	186,000	4,000	502,000	100 U	100 U	--	6.8	1,000 U	--	1,400,000
X-10BR	26.3 - 31.3	09/29/10	5 U	187,000	4,800	595,000	100 U	100 U	--	6.7	1,000 U	--	1,400,000
X-10BR	26.3 - 31.3	09/22/11	5 U	190,000	6,000	540,000	500 U	100 U	--	6.85	360	--	1,500,000
X-10BR	26.3 - 31.3	09/14/12	5 U	200,000	7,900	620,000	100 U	100 U	--	6.84	590 J	--	1,500,000
X-10BR	26.3 - 31.3	09/24/13	5 U	200,000	9,100 B	540,000 B	100 U	500 U	--	6.97	120 J	--	1,500,000
X-4AR	3.3 - 8.3	07/24/95	5 U	18,100	--	--	--	--	--	--	--	--	--
X-4AR	3.3 - 8.3	06/09/96	5 U	22,900	--	--	--	--	--	--	--	--	--
X-4AR	3.3 - 8.3	05/21/00	5 U	20,900	--	--	--	--	--	--	--	--	--
X-4AR	3.3 - 8.3	06/03/04	--	--	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	07/24/95	5 U	65,400	--	--	--	--	--	--	--	--	--
X-4CAUG	18 - 23	06/08/96	5 U	79,100	--	--	--	--	--	--	--	--	--
X-4CAUGR	14 - 19	01/09/08	5 U	79,600	1,500	160,000	100 U	100 U	--	7.2	1,000 U	--	550,000
X-4CAUGR	14 - 19	03/12/08	5 U	58,000	2,000	108,000	100 U	100 U	--	7.3	1,000 U	--	580,000
X-4CAUGR	14 - 19	09/28/10	5 U	52,300	1,900 J	123,000	100 U	100 U	--	7	210 B	--	570,000
X-4CAUGR	14 - 19	09/26/11	5 U	41,000	1,800	99,000	100 U	100 U	--	7.24	1,000 U	--	570,000
X-4CAUGR	14 - 19	09/14/12	5 U	54,000	1,900	140,000	100 U	100 U	--	7.23	1,000 U	--	630,000
X-4CAUGR	14 - 19	09/24/13	5 U	26,000 B	2,900 B	37,000 B	100 U	100 U	--	7.17	190	--	540,000
X-4CAUGR	14 - 19	09/23/14	5 U	60,000 B	1,600	129,000	100 U	100 U	--	7.26	1,000 U	--	630,000
X-4CAUGR	14 - 19	09/30/15	0.35 J	75,000 B	--	170,000	100 U H	100 U H	--	6.89 HF	1,000 U	--	700,000
X-4CAUGR	14 - 19	09/28/16	5.0 U	74,000	1,100 B	81,000	50 U	50 U	--	7.2 HF	18,000	--	570
X-4CAUG	14 - 19	08/29/17	5.0 U	10,000	0.99	6,500	50 U	50 U	--	7.0 HF	1,000 U	--	490,000

Table 2
Analytical Data Summary Table - GPL Inorganics
Saginaw, MI
RACER Trust



Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics-Dissolved		Miscellaneous						Miscellaneous		
			Selenium (Dissolved)	Sodium (Dissolved)	Ammonia Nitrogen	Chloride	Nitrate (as N)	Nitrite (as N)	Nitrogen	pH	Sulfate	Sulfide	Total Dissolved Solids (TDS)
MDEQ GSI Criteria			5	NA	(CC)	--	--	--	--	--	--	--	--
X-4D	40 - 45	01/09/08	5 U	718,000	6,900	1,400,000	100 U	2,000 U	--	7.6	94,400	--	2,300,000
X-4D	40 - 45	04/01/08	5 U [5 U]	726,000 [708,000]	8,800 [8,100]	1,460,000 [1,460,000]	100 U [100 U]	100 U [100 U]	--	7.3 [7.4]	118,000 [118,000]	--	2,500,000 [2,600,000 J]
X-4D	40 - 45	04/03/08	--	--	--	--	--	--	--	--	--	--	--
X-4D	40 - 45	06/05/08	--	--	6,200 [7,320]	--	--	--	--	--	--	--	3,300,000 [2,820,000]
X-4D	40 - 45	09/28/10	5 U	708,000	6,800 J	1,470,000	0.13	1,000 U, G	--	7.4	122,000	--	2,500,000
X-4D	40 - 45	09/26/11	5 U	700,000	9,700	1,400,000	100 U	2,000 U	--	7.47	150,000	--	2,800,000
X-4D	40 - 45	09/14/12	5 U	690,000	8,300	1,500,000	500 U	100 U	--	7.51	190,000	--	2,400,000
X-4D	40 - 45	09/24/13	5 U	680,000 B	8,800 B	1,500,000 B	100 U	1,000 U	--	7.54	160,000	--	2,400,000
X-4D	40 - 45	09/23/14	0.31 J,B	550,000 B	200 U	760,000	1.8	100 U	--	7.52	88,000	--	830,000
X-4D	40 - 45	09/30/15	1.8 J,B	620,000	3,600	1,500,000	2,500 U	2,500 U	--	7.29 HF	160,000	--	2,700,000
X-4D	40 - 45	09/28/16	5.0 U	630,000	6,200 B	1,300,000	50 U	50 U	--	7.4 HF	160,000	--	2,600
X-4D	40 - 45	08/29/17	5.0 U	1,600,000	6,800	1,300	360	360	--	7.3 HF	180,000	--	2,300,000
X-9AR	3 - 13	07/24/95	5 U	37,600	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	06/09/96	5 U	57,000	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	12/15/06	5 U	54,500	200 U	29,700	100 U	100 U	--	7.2 J	29,200	--	790,000
X-9AR	3 - 13	01/10/08	5 U	60,500	300	58,000	100 U	100 U	--	7.1	400 J	--	770,000
X-9AR	3 - 13	03/11/08	9.8	33,600	200 U	10,700	100 U	100 U	--	7.4	35,500	--	600,000
X-9AR	3 - 13	06/05/08	5 U [5 U]	--	--	--	--	--	--	--	--	--	--
X-9AR	3 - 13	09/29/10	5 U	56,400	600	52,100	100 U	100 U	--	7	310 B	--	700,000
X-9AR	3 - 13	09/23/11	5 U	91,000	4,300	180,000	100 U	100 U	--	7.45	1,000 U	--	750,000
X-9AR	3 - 13	09/12/12	5 U	120,000	5,000	180,000	100 U	100 U	--	7.15	1,000 U	--	820,000
X-9AR	3 - 13	09/25/13	5 U	110,000 B	6,200 B	160,000	100 U	100 U	--	7.25	790 J	--	800,000
X-9AR	3 - 13	09/22/14	0.25 J	63,000 B	3,700^	100,000	100 U	100 U	--	7.08	1,000 U	--	630,000
X-9AR	3 - 13	10/01/15	0.50 J,B	37,000 B	720	17,000	100 U	100 U	--	7.28 HF	130 U	--	640,000
X-9AR	3 - 13	09/28/16	0.67 J	38,000	560 B	15,000	50 U	50 U	--	7.1 HF	1,000 U	--	630,000
X-9AR	3 - 13	08/29/17	5.0 U	11,000	540	17,000	50 U	50 U	--	7.1 HF	1,000 U	--	460,000
X-9BR	26 - 31	07/24/95	5 U	64,000	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	06/08/96	5 U	48,800	--	--	--	--	--	--	--	--	--
X-9BR	26 - 31	12/15/06	5.7 U	125,000	5,900	191,000	100	180	--	7.2 J	1,000 U	--	830,000
X-9BR	26 - 31	01/08/08	5 U	81,500	5,200	200,000	100 U	100 U	--	7.2	1,000 U	--	810,000
X-9BR	26 - 31	03/11/08	5 U	84,500	5,000	181,000	100 U	100 U	--	7.1	1,000 U	--	760,000
X-9BR	26 - 31	09/28/10	5 U	145,000	2,900 J	269,000	100 U	100 U	--	7	1,000 U	--	880,000
X-9BR	26 - 31	09/23/11	5 U	140,000	6,700	250,000	100 U	100 U	--	7.50	1,000 U	--	900,000
X-9BR	26 - 31	09/12/12	5 U	190,000	7,300	280,000	100 U	100 U	--	7.14	1,000 U	--	980,000
X-9BR	26 - 31	09/25/13	5 U	210,000 B	9,400 B	240,000	100 U	100 U	--	7.35	2,100	--	870,000
X-9BR	26 - 31	09/22/14	0.39 J	220,000 B	9,900	260,000	100 U	100 U	--	7.18	1,000 U	--	1,000,000
X-9BR	26 - 31	10/01/15	0.76 J,B	210,000 B	12,000	270,000	100 U	100 U	--	7.06 HF	1,000 U	--	990,000
X-9BR	26 - 31	09/28/16	0.70 J	240,000	6,800 B	280,000	50 U	50 U	--	7.2 HF	1,000 U	--	990,000
X-9BR	26 - 31	08/29/17	5.0 U	250,000	12,000	290,000	50 U	50 U	--	7.2 HF	1,000 U	--	990,000
X-9CAUG	20 - 25	07/24/95	5 U	47,200	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	06/08/96	5 U	47,000	--	--	--	--	--	--	--	--	--
X-9CAUG	20 - 25	12/15/06	5 U	58,200	2,900	130,000	100 U	110	--	7.1 J	1,000 U	--	690,000
X-9CAUG	20 - 25	01/08/08	5 U	68,600	3,200	145,000	200	100 U	--	7.4	300 J	--	700,000
X-9CAUG	20 - 25	03/11/08	5 U	62,000	3,300	130,000	100 U	100 U	--	7.1	1,000 U	--	680,000
X-9CAUG	20 - 25	09/28/10	5 U	101,000	4,400 J	200,000	0.034 B	100 U	--	7	260 B	--	750,000
X-9CAUG	20 - 25	09/23/11	5 U	55,000	550	41,000	100 U	100 U	--	7.52	310	--	690,000
X-9CAUG	20 - 25	09/12/12	5 U	48,000	690	34,000	100 U	100 U	--	7.15	1,000 U	--	680,000
X-9CAUG	20 - 25	09/25/13	5 U	47,000 B	430 B	24,000	100 U	100 U	--	7.33	340 J	--	640,000
X-9CAUG	20 - 25	09/22/14	0.42 J,B	38,000 B	120 J	16,000	100 U , H	100 U , H	--	7.15	1,100	--	640,000
X-9CAUG	20 - 25	09/30/15	0.43 J	73,000 B	7,800	180,000	100 U , H	100 U , H	--	6.88 HF	1,000 U	--	790,000
X-9CAUG	20 - 25	09/28/16	0.57 J	110,000	4,400 B	190,000	50 U	50 U	--	7.1 HF	1,000 U	--	830,000
X-9CAUG	20 - 25	08/29/17	5.0 U	42,000	3,400	39,000	50 U	50 U	--	7.1 HF	1,000 U	--	570,000
X-9D	42.5 - 47.5	01/08/08	5 U	634,000	8,500	1,370,000	100 U	100 U	--	7.4	194,000	--	2,400,000
X-9D	42.5 - 47.5	03/11/08	5 U	678,000	9,700	1,340,000	100 U	100 UJ	--	7.3	185,000	--	2,500,000
X-9D	42.5 - 47.5	03/12/08	--	--	--	--	--	--	--	--	--	--	--
X-9D	42.5 - 47.5	06/05/08	--	--	5,900	--	--	--	--	--	--	--	2,900,000
X-9D	42.5 - 47.5	09/28/10	5 U	679,000	7,400 J	1,520,000	100 U	1,000 U, G	--	7.3	220,000	--	2,400,000
X-9D	42.5 - 47.5	09/23/11	5 U	650,000	8,600	1,400,000	100 U	1,000 U	--	7.73	220,000	--	2,700,000
X-9D	42.5 - 47.5	09/12/12	5 U	680,000	7,700	1,400,000	100 U	1,000 U	--	7.45	200,000	--	2,600,000
X-9D	42.5 - 47.5	09/25/13	5 U	690,000 B	7,400 B	1,300,000	100 U	100 U	--	7.51	240,000	--	2,400,000
X-9D	42.5 - 47.5	09/22/14	0.50 J	640,000 B	7,500	1,400,000	100 U	500 U, H	--	7.41	220,000	--	2,600,000
X-9D	42.5 - 47.5	09/30/15	0.66 J	640,000 B	7,500 F1	1,500,000	500 U, H	500 U, H	--	17.2 HF	230,000 F1	--	2,800,000
X-9D	42.5 - 47.5	09/28/16	0.70 J	630,000 B	6,700 B	1,300,000	50 U*	50 U*	--	7.4 HF	240,000	--	2,300,000
X-9D	42.5 - 47.5	08/29/17	5.0 U	1,500,000	3,200	1,100,000	1,700	--	--	7.4 HF	230,000	--	2,300,000

Table 2
Analytical Data Summary Table - SMI Inorganics
Saginaw, MI
RACER Trust

		Sample Depth (feet):	Date Collected:	Inorganics			Miscellaneous			
				Arsenic	Cyanide (total)	Manganese	Thallium	Ammonia Nitrogen	Phosphorus	Total Dissolved Solids (TDS)
Sample ID:				680*	5.2	6,203.8 (G,X)	3.7 (X)	(CC)	1,000	--
MDEQ GSI Criteria										
MW-107S1	12.5 - 17.5	07/12/95	--	5.00 U	--	--	--	--	--	--
MW-107S1	12.5 - 17.5	06/07/96	--	--	--	--	--	--	--	--
MW-107S1	12.5 - 17.5	06/06/08	--	--	--	--	--	1,200 J	--	800,000 J
MW-107S1	12.5 - 17.5	09/30/10	--	--	--	--	--	1,200	--	--
MW-107S1	12.5 - 17.5	09/21/11	--	--	--	--	--	1,400	--	--
MW-107S1	12.5 - 17.5	09/17/12	--	--	--	--	--	1,400	--	--
MW-107S1	12.5 - 17.5	09/26/13	--	--	--	--	--	1,400 B	--	--
MW-107S1	12.5 - 17.5	09/24/14	--	--	--	--	--	1,700 B	--	--
MW-107S1	12.5 - 17.5	10/01/15	--	--	--	--	--	1,400	--	--
MW-107S1	12.5 - 17.5	09/29/16	NA	NA	--	NA	1,500	NA	--	--
MW-107S1	12.5 - 17.5	08/30/17	--	--	--	--	1,800	--	--	--
MW-107WT	4 - 9	07/12/95	2.30	5.00 U	446	2.00 UJ	--	--	--	--
MW-107WT	4 - 9	06/07/96	5.00 U	5.00 U	38.3 J	2.00 UJ	--	--	--	--
MW-107WT	4 - 9	04/03/08	0.950 J	--	379	1.00 U	300	30 J	--	--
MW-107WT	4 - 9	09/18/12	1.1 J	--	170	0.46 J, B	62 J	100 U	--	--
MW-107WT	4 - 9	09/26/13	--	--	--	--	880 B	100	--	--
MW-107WT	4 - 9	09/24/14	4.2	--	1,500	1.00 U	1,300 B	100 U	--	--
MW-107WT	4 - 9	10/01/15	11	--	--	1.0 U	1,200	100 U	--	--
MW-107WT	4 - 9	09/29/16	6.5	NA	2,000 ^	1.0 U	1,400	100 U	--	--
MW-107WT	4 - 9	08/30/17	2.0	--	1,500	1.0 U	590 B	100 U	--	--
MW-108S2	22 - 27	07/13/95	--	5.00 U	--	--	--	--	--	--
MW-108S2	22 - 27	06/08/96	--	--	--	--	--	--	--	--
MW-108S2	22 - 27	06/06/08	--	--	--	--	3,500 J	--	910,000 J	--
MW-108S2	22 - 27	09/29/10	--	--	--	--	4,600	--	--	--
MW-108S2	22 - 27	09/21/11	--	--	--	--	4,900	--	--	--
MW-108S2	22 - 27	09/17/12	--	--	--	--	6,200	--	--	--
MW-108S2	22 - 27	09/26/13	--	--	--	--	5,300 B	--	--	--
MW-108S2	22 - 27	09/24/14	--	--	--	--	4,600 B	--	--	--
MW-108S2	22 - 27	10/01/15	--	--	--	--	7,700	--	--	--
MW-108S2	22 - 27	09/29/16	NA	NA	--	NA	5,400	NA	--	--
MW-108S2	22 - 27	08/30/17	--	--	--	--	8,800	--	--	--
MW-108WT	2.5 - 7.5	07/13/95	8.30 J	5.00 U	4,800	2.00 U	--	--	--	--
MW-108WT	2.5 - 7.5	06/08/96	5.00 U	5.00 U	933	4.00 UJ	--	--	--	--
MW-108WT	2.5 - 7.5	05/21/00	10.0 U	--	1,230	10.0 U	--	--	--	--
MW-108WT	2.5 - 7.5	06/02/04	--	--	--	1.00 U	--	--	--	--
MW-108WT	2.5 - 7.5	09/29/16	NA	NA	2,000 ^	NA	60 J	100 U	--	--
MW-108WT	2.5 - 7.5	08/31/17	--	--	1,300	--	200 U	100 U	--	--
MW-110WT	UNKNOWN	06/12/96	7.30	5.00 U	460	2.00 UJ	--	--	--	--
MW-110WT	UNKNOWN	12/10/97	--	--	--	--	--	--	--	--
MW-110WTR	10 - 15	04/02/08	--	--	2,680	--	90 J	200	1,500,000	--
MW-110WTR	10 - 15	09/24/14	--	--	4,000	1.0 U	100 J,B	120	--	--
MW-110WTR	10 - 15	10/01/15	--	--	4,000	1.0 U	200 U	200	--	--
MW-110WTR	10 - 15	09/29/16	NA	NA	3,500 ^	1.0 U	130 JB	270	1,000,000	--
MW-110WTR	10 - 15	10/13/16	NA	0.010 U	--	NA	--	NA	--	--
MW-110WTR	10 - 15	08/31/17	--	--	2,900	1.0 U	200 U	370	830,000	--
MW-111WT	5.5 - 10.5	07/14/95	24.0 J	5.00 U	3,740	2.00 UJ	--	--	--	--
MW-111WT	5.5 - 10.5	06/12/96	30.7	5.00 U	4,440	8.00 UJ	--	--	--	--
MW-111WT	5.5 - 10.5	06/30/99	--	--	2,100	--	2,700	1,000	--	--
MW-111WT	5.5 - 10.5	09/02/99	--	--	--	--	3,100	--	1,100,000	--
MW-111WT	5.5 - 10.5	05/19/00	11.4	--	2,560	7.90 B	--	--	--	--
MW-111WT	5.5 - 10.5	06/02/04	--	--	1,090	--	--	--	--	--
MW-111WT	5.5 - 10.5	08/26/05	--	--	1,680 [1,520]	--	--	--	--	--
MW-111WT	5.5 - 10.5	04/02/08	--	--	1,080 [1,140]	--	500 [500]	400 [400]	580,000 [590,000]	--
MW-111WT	5.5 - 10.5	09/18/12	--	--	3,600	0.24	1,600	87 J	--	--

Table 2
Analytical Data Summary Table - SMI Inorganics
Saginaw, MI
RACER Trust

Sample ID:	Sample Depth (feet):	Date Collected:	Inorganics				Miscellaneous		
			Arsenic	Cyanide (total)	Manganese	Thallium	Ammonia Nitrogen	Phosphorus	Total Dissolved Solids (TDS)
MDEQ GSI Criteria			680*	5.2	6,203.8 (G,X)	3.7 (X)	(CC)	1,000	--
MW-111WT	5.5 - 10.5	09/26/13	--	--	1,600	1.00 U	1400 B	370	--
MW-111WT	5.5 - 10.5	09/23/14	--	--	780	1.00 U	1700	610	--
MW-111WT	5.5 - 10.5	10/01/15	--	--	1,600	1.0 U	1,400	970	--
MW-111WT	5.5 - 10.5	09/29/16	NA	NA	1,700	1.0 U	2,900	480	--
MW-111WT	5.5 - 10.5	08/31/17	--	--	1,000	1.0 U	1,100 B	390	--
MW-114S2	22.5 - 27.5	07/17/95	--	5.00 U	--	--	--	--	--
MW-114S2	22.5 - 27.5	06/07/96	--	--	--	--	--	--	--
MW-114S2	22.5 - 27.5	06/06/08	--	--	--	--	2,500 J	--	560,000 J
MW-114S2	22.5 - 27.5	09/29/10	--	--	--	--	2,300 [2,200]	--	
MW-114S2	22.5 - 27.5	09/22/11	--	--	--	--	3,000 [3,000]	--	
MW-114S2	22.5 - 27.5	09/18/12	--	--	--	--	2,900 [2,800]	--	
MW-114S2	22.5 - 27.5	09/25/13	--	--	--	--	3,800 B [3,800 B]	--	--
MW-114S2	22.5 - 27.5	09/23/14	--	--	--	--	5,000^ [5,500^]	--	--
MW-114S2	22.5 - 27.5	10/02/15	--	--	--	--	2,200 [2,800]	--	--
MW-114S2	22.5 - 27.5	09/29/16	NA	NA	--	NA	2,700	NA	--
MW-114S2	22.5 - 27.5	09/01/17	--	--	--	--	2,300 [2,100 B]	--	--
MW-114WT	3.5 - 8.5	06/08/96	5.00 U	5.00 U	2,260	4.00 UJ	--	--	--
MW-114WT	3.5 - 8.5	12/11/97	--	--	--	--	--	--	--
MW-114WT	3.5 - 8.5	05/22/00	10.0 U	--	503	5.30 B	--	--	--
MW-114WT	3.5 - 8.5	09/26/13	--	--	1,100	1.00 U	66 J,B	100 U	--
MW-114WT	3.5 - 8.5	09/23/14	5.3	--	1,400	1.00 U	200 U	100 U	--
MW-114WT	3.5 - 8.5	10/02/15	--	--	1,000	0.14 J [1.0 U]	200 U [820]	100 U, F1 [100 U]	--
MW-114WT	3.5 - 8.5	09/29/16	NA	NA	1,100	1.0 U	200 U	100 U	--
MW-114WT	3.5 - 8.5	08/31/17	--	--	850	1.0 U	200 U	160	--
MW-149WT	7 - 17	06/12/96	--	--	--	--	--	--	--
MW-149WT	7 - 17	05/21/00	10.7	--	868	6.70 B	--	--	--
MW-149WT	7 - 17	06/02/04	223 [227]	--	4,440 [4,560]	1.00 U [1.00 U]	--	--	--
MW-149WT	7 - 17	04/03/08	93.6 [92.3]	--	1,570	0.180 J [1.00 U]	800	300	--
MW-149WT	7 - 17	09/30/10	126 [122]	--	--	1.00 U [1.00 U]	3,600	2,200 [1,800]	--
MW-149WT	7 - 17	09/28/11	190 [180]	--	--	0.840 [0.170]	4,700	1,600 [1,600]	--
MW-149WT	7 - 17	09/18/12	160 [160]	--	--	0.65 J [0.32 J,B]	5,000	2,000 [1,900]	--
MW-149WT	7 - 17	09/25/13	140 B [140 B]	--	--	1.00 U [1.00 U]	4,600 B	2,000 [2,100]	--
MW-149WT	7 - 17	09/24/14	75 B [69 B]	--	--	0.62 J [1.00 U]	3,200 B	2,000 [1,300]	--
MW-149WT	7 - 17	10/01/15	60	--	--	1.0 U	3,000	1,100	--
MW-149WT	7 - 17	09/29/16	50 [52]	NA	--	1.0 U [1.0 U]	1,200	620 [700]	--
MW-149WT	7 - 17	08/30/17	48[48]	--	--	0.28 J [1.0 U]	1,100 B	970 [850]	--
MW-185WT	3 - 8	11/28/07	--	--	291	--	300 U [300 U]	100 U [100 U]	400,000 [380,000]
MW-185WT	3 - 8	09/18/12	--	--	700	--	380	100 U	--
MW-185WT	3 - 8	09/25/13	--	--	400	--	400 B	100 U	--
MW-185WT	3 - 8	09/24/14	--	--	320	--	160 J,B	100 U	--
MW-185WT	3 - 8	10/01/15	--	--	330	0.22 J	190 J	100 U	--
MW-185WT	3 - 8	09/30/16	NA	NA	150	1.0 U	97 J	100 U	--
MW-185WT	3 - 8	08/31/17	--	--	140	1.0 U	96 J,B	100 U	--
MW-186WT	UNKNOWN	09/30/10	--	--	252	--	1,500	300	--
MW-186WT	UNKNOWN	09/23/11	--	--	450	--	2,100	360	--
MW-186WT	UNKNOWN	09/18/12	--	--	400	--	2,100	250	--
MW-186WT	UNKNOWN	09/25/13	--	--	1,100	--	2,000 B	290	--
MW-186WT	UNKNOWN	09/24/14	--	--	2,100	--	2,000 B	170	--
MW-186WT	UNKNOWN	10/02/15	--	--	1,400	0.076 J	1,600	290	--
MW-186WT	UNKNOWN	09/30/16	NA	NA	--	NA	--	NA	--
MW-186WT	UNKNOWN	09/30/16	NA	NA	1,800	0.39 J	1,500	260	--
MW-186WT	UNKNOWN	08/31/17	--	--	700	0.22 J	1,300 B	290	--

Notes:

Only parameters on the annual GW Monitoring Program list of analytes are depicted

All results are in micrograms per liter (ug/L).

Bolded cells represent constituent concentrations with detections

Duplicate results are presented in brackets.

Groundwater concentrations are presented in milligrams per liter (mg/L), except where noted.

Gray shaded cells represent constituent concentrations that exceed Groundwater/Surface Water (GSI) Michigan Part 201 Criteria updated December 30, 2013.

MW-183WT, X-4CAUGR, X-9AR, X-9BR, X-9CAUG represent a groundwater surface water interface (GSI) perimeter monitoring well from Green Point Landfill.

MW-107WT, MW-107S1, MW-108S2, MW-110WTR, MW-111WT, MW-114S2, MW-114WT, MW-149WT, MW-185WT, and MW-186WT represent a GSI perimeter monitoring well from SMI.

* Venting groundwater discharge concentrations was recommended by MDEQ in a letter dated November 26, 2008 followed by a Mixing Zone Determination Request and based on a five year renewal approved by the MDEQ on August 5, 2016.

Data Qualifiers:

ND = Not detected. The value in parentheses represents the associated detection limit.

-- or NA = Not analyzed for this constituent.

B = Inorganics: the detected analyte is an estimated value between the instrument detection limit (IDL) and the reporting limit (RL).

B = Organics: the compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

BJ = The detected analyte is an estimated concentration between the IDL and the RL.

D = Concentration is based on a diluted sample analysis.

F1= MS and/or MSD Recovery is outside acceptance limits

H = Sample was prepped or analyzed beyond the specified hold time.

J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.

L = A negative instrument reading had an absolute value greater than the reporting limit.

M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

R = Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data shall not be used for any qualitative or quantitative purposes.

U = The constituent was analyzed for but not detected. The associated value is the constituent quantitation limit.

UJ = The constituent was not detected above the reported sample quantitation limit.

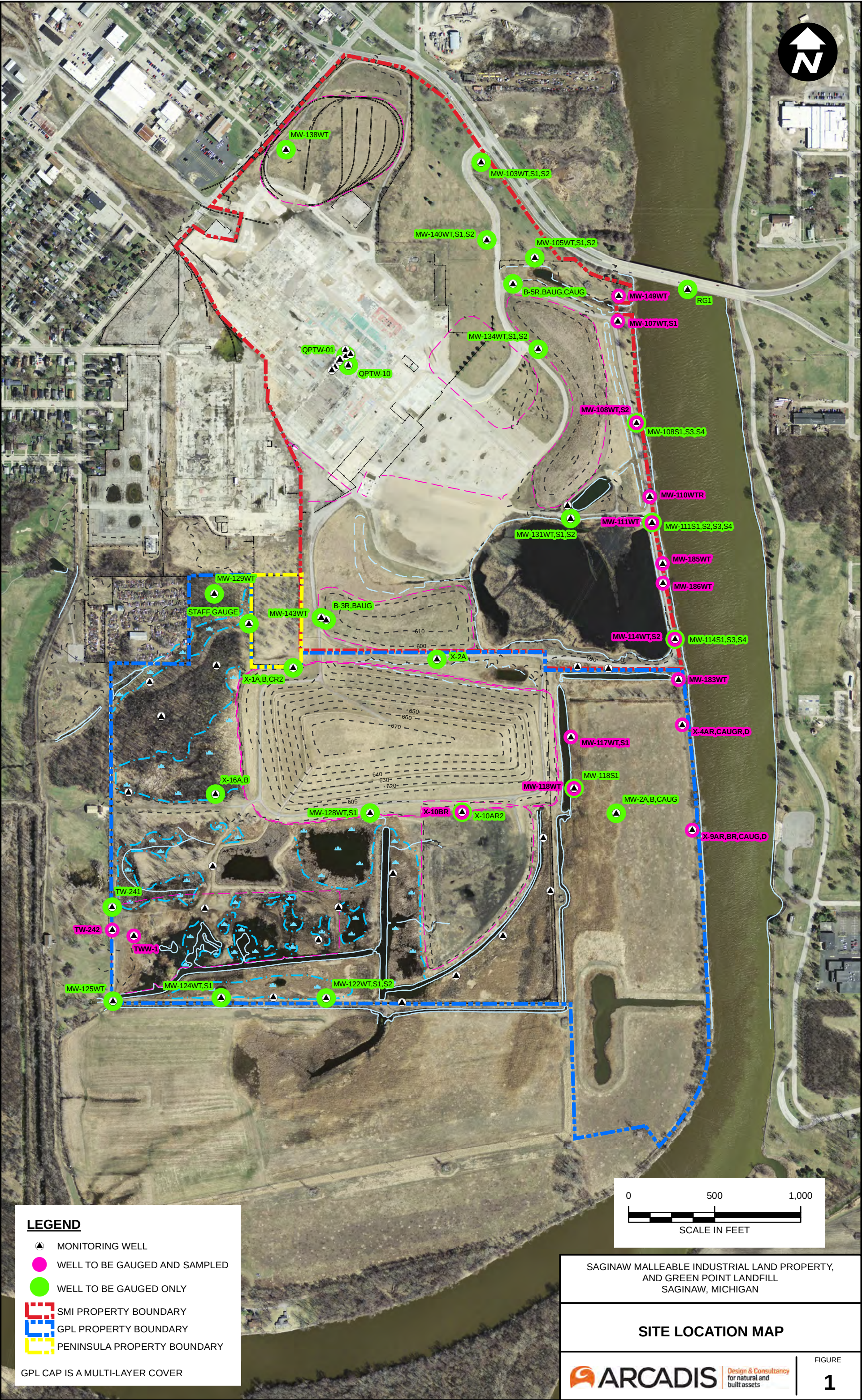
However, the reported limit is approximate and may or may not represent the actual result.

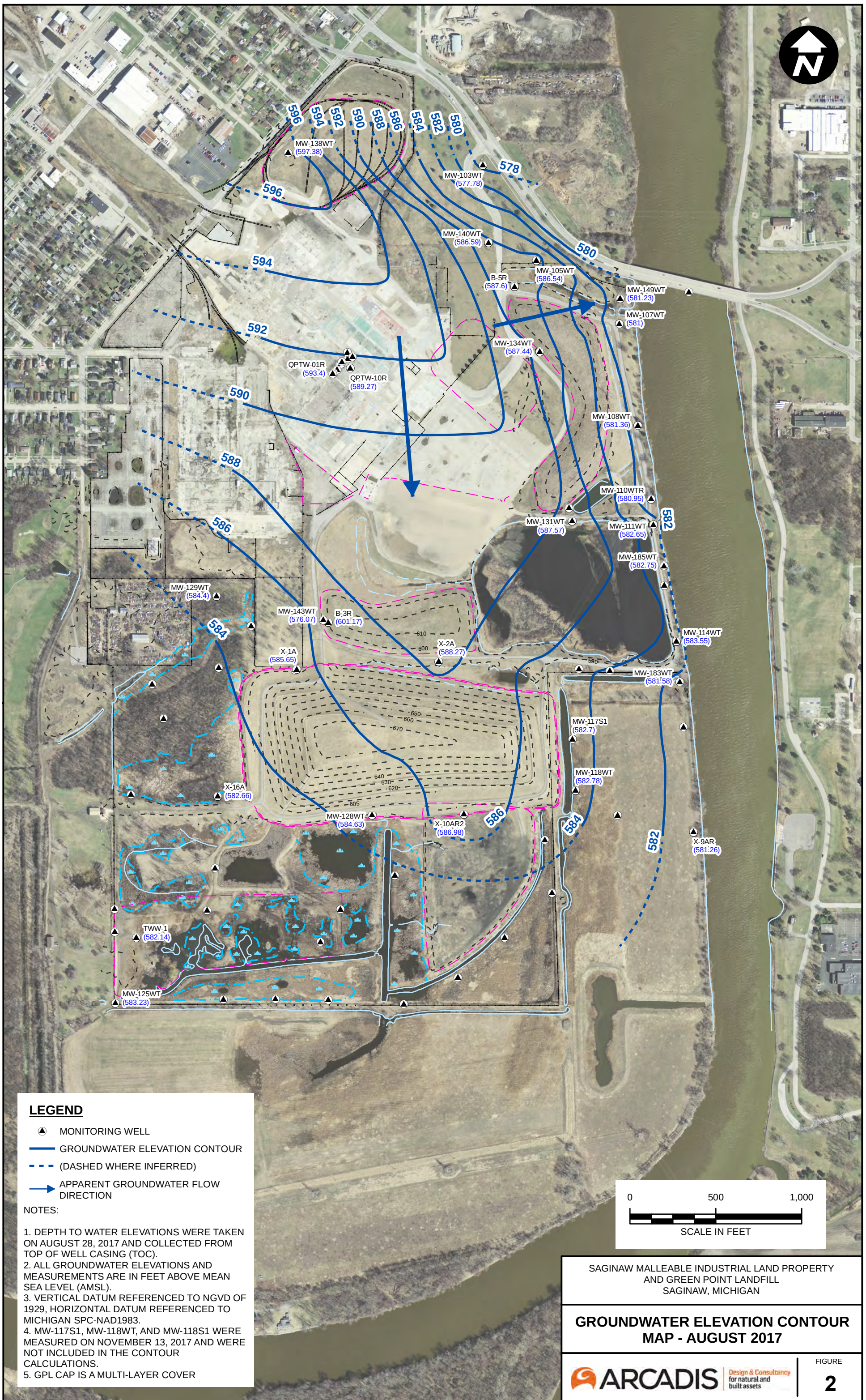
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK, or MRL standard: instrument related QC exceeds the control limits.

FIGURES



CITY: Novi DIV: ENV DB: TRY PIC: PM: TR: PROJECT NUMBER: COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl G:\COMMONRACER\Saginaw\64434 - SMI (10030) Main Location\GIS\Docs\Annual Report\FIG 1 - Site Location Map.mxd PLOTTED: 11/21/2017 2:54:25 PM BY: dolexa





CITY: Novi DIV: ENV DB: TRY PIC: PM: TR: PROJECT NUMBER: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
G:\COMMON\RACER Saginaw\643434 - SMI (10030) Main Location\GISDocs\Annual Report\FIG 2 - GW Elevation Contours.mxd PLOTTED: 11/21/2017 3:59:49 PM BY: doleba

LEGEND

-  MONITORING WELL
 GROUNDWATER ELEVATION CONTOUR
 (DASHED WHERE INFERRED)
 APPARENT GROUNDWATER FLOW DIRECTION

NOTES:

1. DEPTH TO WATER ELEVATIONS WERE TAKEN ON AUGUST 28, 2017 AND COLLECTED FROM TOP OF WELL CASING (TOC).
2. ALL GROUNDWATER ELEVATIONS AND MEASUREMENTS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).
3. VERTICAL DATUM REFERENCED TO NGVD OF 1929, HORIZONTAL DATUM REFERENCED TO MICHIGAN SPC-NAD1983.
4. MW-117S1, MW-118WT, AND MW-118S1 WERE MEASURED ON NOVEMBER 13, 2017 AND WERE NOT INCLUDED IN THE CONTOUR CALCULATIONS.
5. GPL CAP IS A MULTI-LAYER COVER

SAGINAW MALLEABLE INDUSTRIAL LAND PROPERTY
AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

GROUNDWATER ELEVATION CONTOUR MAP - AUGUST 2017



FIGURE

ATTACHMENT 1

SMI Well Construction Logs, Sampling Parameters, and Field Parameters



Attachment 1
Monitoring Well Sampling Plan and Construction Summary
2017 Annual Report
RACER Trust
Saginaw Malleable Industrial Land
Saginaw, Michigan

Well ID	Screen Interval (ft) ¹	Screened Unit/Zone	Well Construction	Date Installed	TIC ² Elevation (ft) ³
MW-107WT	4-9	Water table	2" PVC	12/23/94	590.65
MW-107S1	12.5-17.5	Upper sand	2" PVC	5/3/95	590.74
MW-108WT	2.5-7.5	Water table	2" PVC	12/21/94	590.53
MW-108S2	22-27	Upper sand	2" PVC	12/21/94	590.26
MW-110WTR	3-8	Water table	2" PVC	11/9/2001	591.52
MW-111WT	5.5-10.5	Water table	2" PVC	1/6/95	590.95
MW-114WT	3.5-8.56	Water table	2" PVC	7/24/07	591.12
MW-114S2	22.5-27.5	Upper sand	2" PVC	7/23/07	591.2
MW-149WT	7-17	Water table	2" PVC	9/21/95	592.27
MW-185WT	3-8	Water table	2" PVC	11/8/2001	588.67
MW-186WT	8-18	Water table	2" PVC	NA	NA

Notes:

¹ Depths are in feet below ground surface (bgs). Note that the screened intervals of the MW-128 and X-1 well clusters have been adjusted due to the addition of riser to the wells during landfill capping.

² TIC = Top of inner casing.

³ Elevations are in feet above mean sea level (AMSL).

NA = not applicable/not available.

SMI - River Berm Sampling													
WELL	Summary from RAP (2008)	Ultra Low Flow Location ¹	Ammonia Nitrogen H ₂ SO ₄ - 500 mL Poly	Ammonia H ₂ SO ₄ - 500 mL Poly	Phosphorus H ₂ SO ₄ - 500 mL Poly	Total Arsenic, Total Manganese, Total Thallium HNO ₃ - 500mL Poly	(any combination can go into one 500mL Poly)	SVOCs NA - 1L Amber	Total PCBs NA - 1L Amber	Dissolved PCBs NA - 1L Amber	screen interval		
MW-107WT	Ammonia nitrogen, phosphorus, DO, total arsenic, total manganese, and total thallium	X		X	X	X	X				4-9		
MW-108WT	TCL SVOCs, DO, ammonia, phosphorus, and total manganese	X		X	X		X		X		2.5-7.5		
MW-110WTR	PCBs (total and dissolved,) ammonia nitrogen, phosphorus, DO, TDS, total manganese, and thallium	X		X	X		X			X	3-8		
MW-111WT	PCBs (total and dissolved), DO, ammonia, phosphorus, total thallium, and total manganese	X		X	X		X		X	X	5.5-10.5		
MW-114WT	PCBs (total and dissolved), ammonia, phosphorus, DO total thallium, and total manganese	X		X	X		X		X	X	3.5-8.56		
MW-149WT	Ammonia, phosphorus, total arsenic, and total thallium	X		X	X	X		X			7-17	duplicate for phosphorus, total arsenic and total thallium; MS/MSD for phosphorus, total arsenic, and total thallium	
MW-185WT	PCBs (total and dissolved), ammonia, phosphorus, DO, total manganese, and total thallium.	X		X	X		X		X	X	3-8		
MW-186WT	PCBs (total and dissolved), ammonia, phosphorus, DO total thallium, and total manganese	X		X	X		X		X	X	8-18	duplicate for total PCBs; MS/MSD for total and dissolved PCBs	
MW-107S1	Ammonia nitrogen		X								12.5-17.5		
MW-108S2	Ammonia nitrogen		X								22-27		
MW-114S2	Ammonia nitrogen		X								22.5-27.5	duplicate for ammonia nitrogen; MS/MSD for ammonia nitrogen	

Notes:

¹Ultra Low Flow sampling refers to the use of a purge and sampling rate of approximately 1 liter per hour, implemented to minimize sample turbidity.

Attachment 1
Field Parameters, Annual Report
RACER Trust Saginaw Malleable Industrial Land
Saginaw, Michigan

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-107S1	09/30/10	1.258	0.4	-104.2	7.54	22.9	0.35
MW-107S1	09/21/11	1.26	0.90	-111.7	7.11	14.93	0.6
MW-107S1	09/17/12	1.109	2	-83.0	7.19	15.3	1.02
MW-107S1	09/25/13	3.474	0.79	180.3	7.41	12.70	0.1
MW-107S1	09/24/14	1.149	3.03	-76.8	7.40	12.68	2.3
MW-107S1	10/01/15	1.52	0.19	74.33	7.13	14.24	8.2
MW-107S1	09/29/16	0.547	0.49	9.54	7.03	14.29	1.8
MW-107S1	08/30/17	1.237	0.52	-91.8	7.34	17.00	1.55
MW-107WT	DRY 2010 and 2011	NA	NA	NA	NA	NA	NA
MW-107WT ¹	09/18/12	NA	NA	NA	NA	NA	11.0
MW-107WT ¹	09/26/13	NA	NA	NA	NA	NA	93.2
MW-107WT ¹	09/24/14	0.861	0.64	-88.8	6.94	14.26	1.3
MW-107WT	10/01/15	1.239	5.06	-110.08	7.18	18.11	1.9
MW-107WT	09/29/16	0.401	0.62	35.2	6.90	15.59	1.05
MW-107WT	08/30/17	0.928	8.9	78	7.23	21.6	1.26
MW-108S2	09/28/10	1.142	0.12	-116.6	7.52	13.87	0.4
MW-108S2	09/21/11	0.808	0.63	-96.9	7.51	13.87	3.8
MW-108S2	09/17/12	0.901	0.28	-238.8	7.38	13.23	0.83
MW-108S2	09/26/13	2.641	0.37	160.1	7.49	12.37	0.8
MW-108S2	09/24/14	Missing field notes					
MW-108S2	10/01/15	1.062	0.14	103.92	7.59	13.47	8.9
MW-108S2	09/29/16	0.395	0.52	7.28	7.10	15	1.43
MW-108S2	08/30/17	0.644	0.36	-124.3	7.61	16.5	1.92
MW-108WT	DRY 2010 through 2014	NA	NA	NA	NA	NA	NA
MW-108WT	09/29/16	0.310	0.51	4.45	6.55	16.59	0.87
MW-108WT	08/30/17	purged dry, sampled on 8/31/17					
MW-110WTR	DRY 2010 through 2013	NA	NA	NA	NA	NA	NA
MW-110WTR	09/24/14	Missing field notes					
MW-110WTR	10/01/15	2.198	0.62	-117.47	6.91	14.07	7.71
MW-110WTR	09/29/16	0.683	0.52	-29.39	6.47	14.6	0.86

Attachment 1
Field Parameters, Annual Report
RACER Trust Saginaw Malleable Industrial Land
Saginaw, Michigan

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-110WTR	08/31/17	1.133	0.51	-100.1	6.67	16	1.9
MW-111WT	DRY 2010 and 2011	NA	NA	NA	NA	NA	NA
MW-111WT ¹	09/18/12	NA	NA	NA	NA	NA	5.36
MW-111WT ¹	09/26/13	NA	NA	NA	NA	NA	6.62
MW-111WT	09/23/14	Missing field notes					
MW-111WT	10/01/15	1.206	0.21	109.71	7.05	13.09	6.34
MW-111WT	09/29/16	0.403	0.5	-32.78	6.66	15.43	1.02
MW-111WT	08/31/17	0.762	0.47	-66.9	7.25	18.8	1.85
MW-114S2	09/29/10	0.69	0.10	-118.5	8.40	16.43	1.0
MW-114S2	09/22/11	0.929	1.83	-109.6	7.20	16.3	1.1
MW-114S2	09/18/12	0.809	7.67	-21.1	7.25	14.25	3.47
MW-114S2	09/25/13	2.810	0.63	-206.2	7.37	14.15	0.2
MW-114S2	09/23/14	0.637	0.07	-113.4	6.73	15.96	1.3
MW-114S2	10/01/15	0.650	0.36	127.66	7.29	14.04	5.5
MW-114S2	09/29/16	0.257	0.45	-42.57	6.96	16.01	1.02
MW-114S2	09/01/17	0.783	0.56	-119.2	7.33	16.1	1.95
MW-114WT	DRY 2010, 2011 and 2012	NA	NA	NA	NA	NA	NA
MW-114WT ¹	09/25/13	NA	NA	NA	NA	NA	12.3
MW-114WT	09/23/14	0.705	0.19	-88.1	6.43	20.25	0.98
MW-114WT	10/01/15	1.026	1.16	112.83	6.67	16.22	8.68
MW-114WT	09/29/16	0.277	0.66	-21.73	6.77	18.51	1.39
MW-114WT	08/31/17	0.527	0.41	-146.1	7.11	19.7	1.96
MW-149WT	09/30/10	1.395	0.53	-133.4	6.91	12.79	1.6
MW-149WT	09/28/11	1.441	0.43	-136.6	6.77	13.79	1.7
MW-149WT	09/18/12	1.161	2	-75.0	6.73	14.03	0.72
MW-149WT	09/25/13	4.722	0.28	-150.7	6.70	14.93	1.25
MW-149WT	09/24/14	Missing field notes					
MW-149WT	10/01/15	1.234	0.21	87.25	6.82	13.16	5.58
MW-149WT	09/29/16	0.455	0.56	48.33	6.50	14.93	1.89
MW-149WT	08/30/17	1.014	0.34	-82.8	7.13	16.1	1.92

Attachment 1
Field Parameters, Annual Report
RACER Trust Saginaw Malleable Industrial Land
Saginaw, Michigan

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-185WT	DRY 2010 and 2011	NA	NA	NA	NA	NA	NA
MW-185WT ¹	09/18/12	NA	NA	NA	NA	NA	27.7
MW-185WT ¹	09/25/13	NA	NA	NA	NA	NA	19.7
MW-185WT	09/24/14	0.48	0.29	-125.7	7.75	22.01	1.65
MW-185WT	10/01/15	0.597	0.67	-150.33	7.91	14.87	5.67
MW-185WT	09/29/16	0.213	0.37	74.88	7.18	19.12	1.05
MW-185WT	08/31/17	0.4173	0.7	-6.6	7.94	20.9	1.89
MW-186WT	09/29/10	0.53	0.39	-130.1	7.88	14.52	0.6
MW-186WT	09/28/11	0.94	1.68	-136	8.04	14.18	0.5
MW-186WT	09/18/12	0.748	4.43	-222.8	7.43	15.07	0.60
MW-186WT	09/25/13	2.239	0.48	-104.2	6.86	16.15	0.5
MW-186WT	09/24/14	0.853	0.24	-124.9	6.50	18.99	1.5
MW-186WT	10/01/15	0.597	0.67	-150.33	7.91	14.87	5.7
MW-186WT	09/29/16	0.295	0.46	99.39	6.90	15.47	2.43
MW-186WT	08/31/17	0.529	0.35	-120.1	7.36	20.6	1.97

Notes:

°C = Celsius.

mg/L = milligrams per liter.

mV = millivolts.

NTUs = Nephelometric Turbidity Units.

SU = Standard Units.

mS/cm = milliSiemens per centimeter.

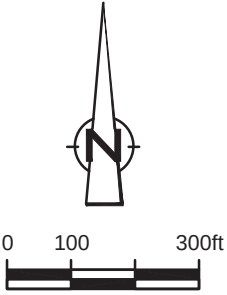
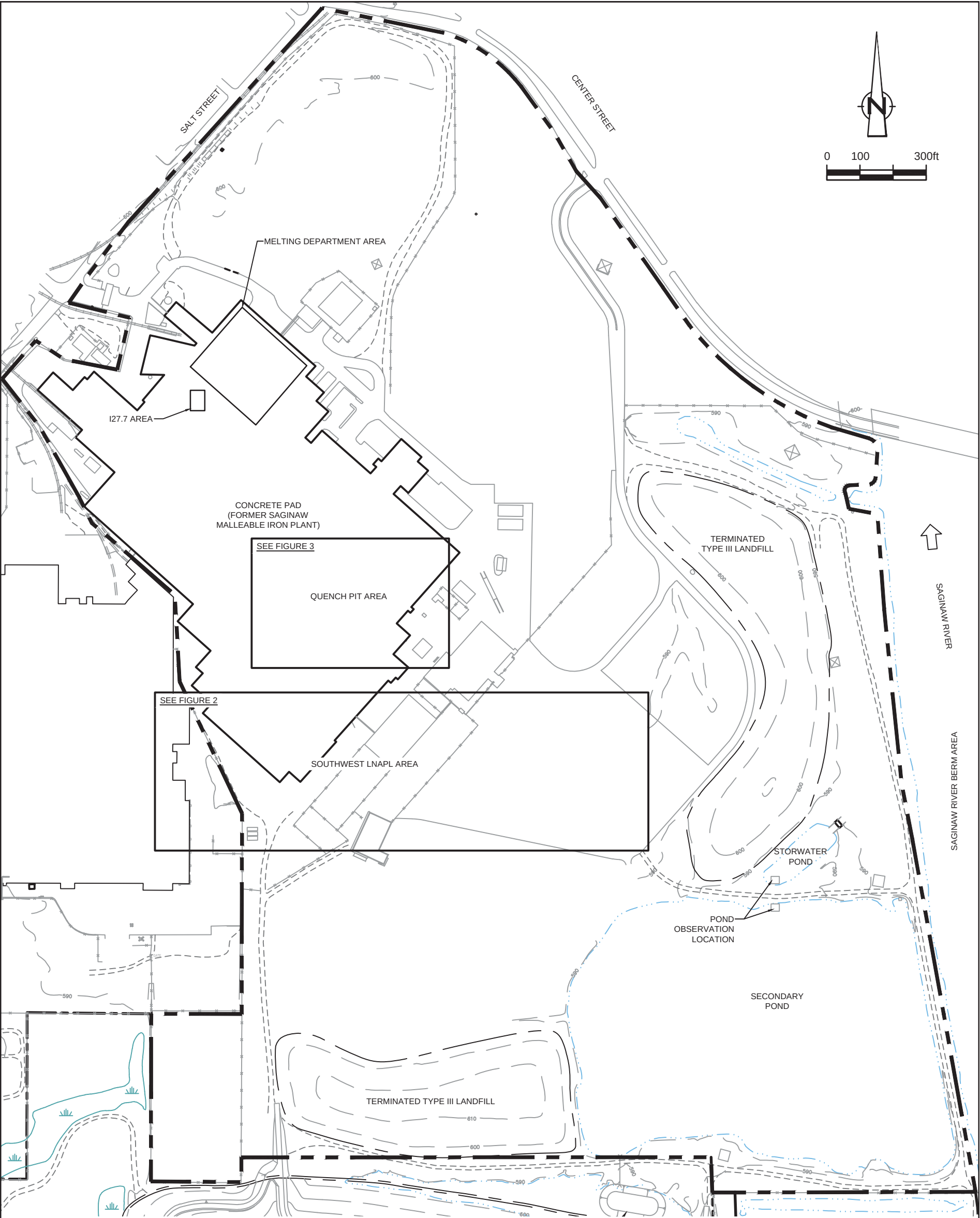
NA = not applicable/not available.

1. Monitoring well purged dry upon sampling. Well was allowed to recharge and then a sample was collected. Only turbidity was measured prior to sampling.
2. No reading due to faulty dissolved oxygen sensor.

ATTACHMENT 2

GHD Summary of LNAPL Activities at Malleable Iron Industrial Land





- LEGEND**
- RACER MALLEABLE IRON INDUSTRIAL LAND PROPERTY LINE (APPROX.)
 - - - UNPAVED ROAD
 - 620 - GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
 - x - x - FENCE LINE

NOTE:
THIS DRAWING HAS BEEN PREPARED
UTILIZING THE BEST AVAILABLE INFORMATION.

figure 1
SITE PLAN
RACER SAGINAW MALLEABLE IRON INDUSTRIAL LAND
Saginaw, Michigan



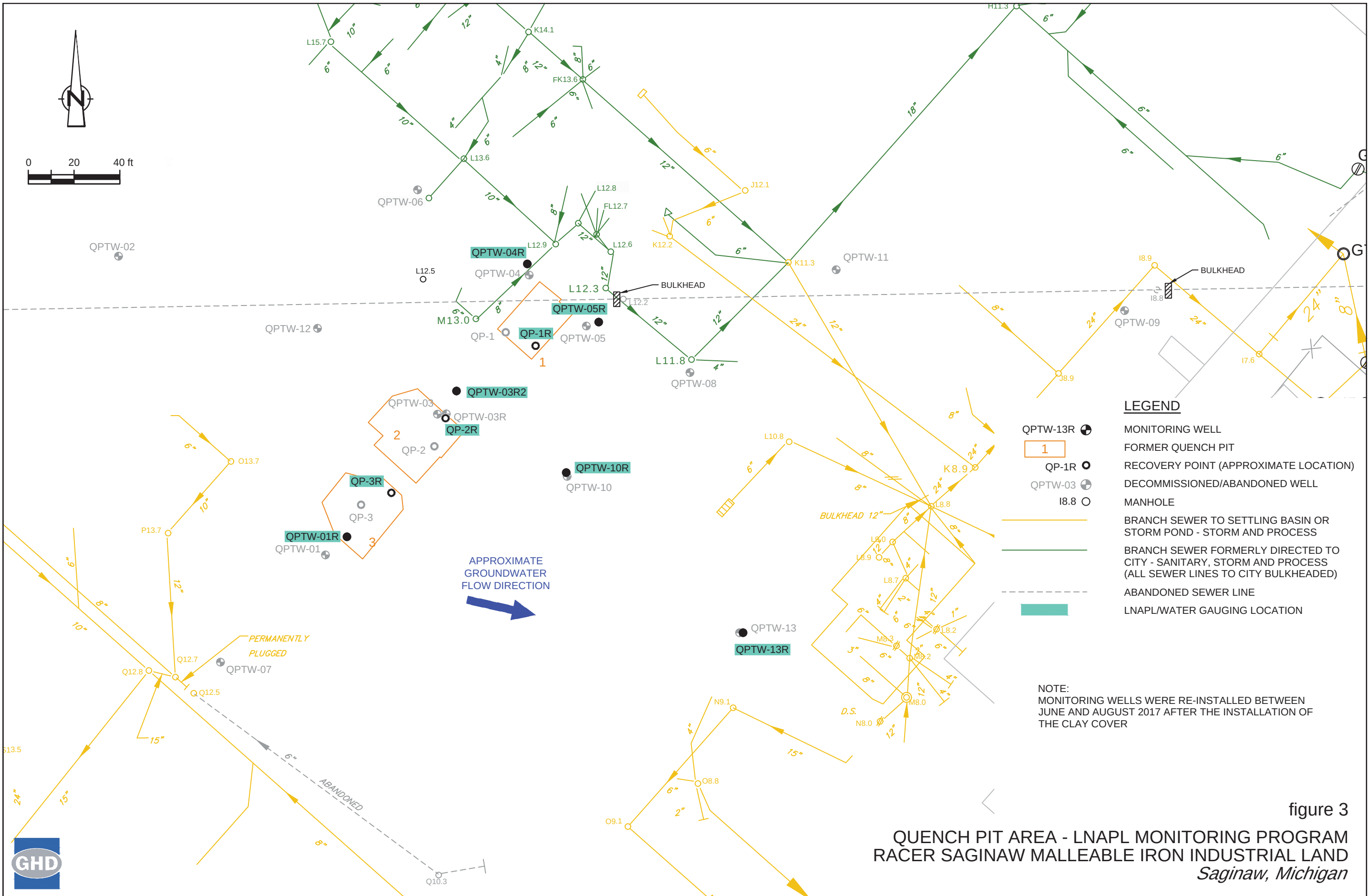


Table 1

Monitoring Well Completion Details
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan

Monitoring Well Location	Date Installed	Easting Coordinate ⁽¹⁾	Northing Coordinate ⁽¹⁾	Reference Elevation (ft AMSL)⁽¹⁾	Ground Surface Elevation (ft AMSL)⁽¹⁾	Screen Interval (feet)	Well Construction Materials
QPTW-01R	6/29/2017	13227838.19	692761.40	594.49	594.69	2-12	2" PVC
QPTW-03R2	6/29/2017	13227886.02	692825.09	594.61	594.91	2-12	2" PVC
QPTW-04R	6/30/2017	13227917.01	692880.67	594.46	594.96	2-12	2" PVC
QPTW-05R	6/29/2017	13227948.18	692855.21	594.28	595.00	2-12	2" PVC
QPTW-10R	7/5/2017	13227934.01	692789.47	594.20	594.82	2-12	2" PVC
QPTW-13R	8/16/2017	13228011.23	692719.47	594.04	594.80	4-14	2" PVC
QP-1R	6/29/2017	13227920.65	692844.91	594.59	594.87	1.5-11.5	4" PVC
QP-2R	6/30/2017	13227881.29	692813.24	594.22	594.81	2-12	4" PVC
QP-3R	6/29/2017	13227857.62	692780.63	594.41	594.80	2-12	4" PVC

Notes:

(1) Monitoring wells were surveyed by SPICER Group (Horizontal Coordinate System: Michigan State Plan, South Zone, fti, Vertical Datum: NGVD'29) on July 6 and September 5, 2017

AMSL = above mean sea level, datum referenced to NGVD'29

R = replacement well

Table 2

**Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan**

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
OPTW-01	03/17/05	592.3	591.95	2.85	12.85	10.48	7.28	3.20	584.29	7.66
	04/12/05	592.3	591.95	2.85	12.85	10.63	7.30	3.33	584.25	7.70
	05/31/05	592.3	591.95	2.85	12.85	10.69	7.36	3.33	584.19	7.76
	06/24/05	592.3	591.95	2.85	12.85	10.45	7.04	3.41	584.50	7.45
	08/12/05	592.3	591.95	2.85	12.85	10.20	6.95	3.25	584.61	7.34
	10/14/05	592.3	591.95	2.85	12.85	10.58	7.29	3.29	584.27	7.68
	11/08/05	592.3	591.95	2.85	12.85	10.82	7.44	3.38	584.10	7.85
	12/19/05	592.3	591.95	2.85	12.85	10.91	7.52	3.39	584.02	7.93
	01/31/06	592.3	591.95	2.85	12.85	10.53	7.29	3.24	584.27	7.68
	02/15/06	592.3	591.95	2.85	12.85	10.46	7.21	3.25	584.35	7.60
	03/13/06	592.3	591.95	2.85	12.85	9.71	6.93	2.78	584.69	7.26
	04/10/06	592.3	591.95	2.85	12.85	10.02	7.04	2.98	584.55	7.40
	05/22/06	592.3	591.95	2.85	12.85	10.23	7.11	3.12	584.47	7.48
	06/21/06	592.3	591.95	2.85	12.85	10.22	7.05	3.17	584.52	7.43
	07/11/06	592.3	591.95	2.85	12.85	9.67	6.82	2.85	584.79	7.16
	08/23/06	592.3	591.95	2.85	12.85	9.99	6.78	3.21	584.78	7.17
	09/26/06	592.3	591.95	2.85	12.85	9.90	6.82	3.08	584.76	7.19
	10/30/06	592.3	591.95	2.85	12.85	9.62	6.83	2.79	584.79	7.16
	11/27/06	592.3	591.95	2.85	12.85	9.79	6.91	2.88	584.69	7.26
	12/27/06	592.3	591.95	2.85	12.85	9.97	6.96	3.01	584.63	7.32
	01/15/07	592.3	591.95	2.85	12.85	9.79	6.94	2.85	584.67	7.28
	02/21/07	592.3	591.95	2.85	12.85	10.35	7.29	3.06	584.29	7.66
	03/23/07	592.3	591.95	2.85	12.85	10.18	7.27	2.91	584.33	7.62
	04/09/07	592.3	591.95	2.85	12.85	10.39	7.25	3.14	584.32	7.63
	05/15/07	592.3	591.95	2.85	12.85	10.09	7.32	2.77	584.30	7.65
	06/11/07	592.3	591.95	2.85	12.85	10.36	7.47	2.89	584.13	7.82
	07/11/07	592.3	591.95	2.85	12.85	10.36	7.43	2.93	584.17	7.78
	08/16/07	592.3	591.95	2.85	12.85	10.41	7.48	2.93	584.12	7.83
	09/17/07	592.3	591.95	2.85	12.85	10.11	7.38	2.73	584.24	7.71
	11/26/07	592.3	591.95	2.85	12.85	10.62	7.64	2.98	583.95	8.00
	12/12/07	592.3	591.95	2.85	12.85	10.79	7.77	3.02	583.82	8.13
	01/11/08	592.3	591.95	2.85	12.85	10.32	7.56	2.76	584.06	7.89
	02/05/08	592.3	591.95	2.85	12.85	9.91	7.42	2.49	584.23	7.72
	04/11/08	592.3	591.95	2.85	12.85	8.41	6.60	1.81	585.13	6.82
	05/16/08	592.3	591.95	2.85	12.85	8.65	6.56	2.09	585.14	6.81
	10/29/08	592.3	591.95	2.85	12.85	8.71	6.39	2.32	585.28	6.67
	01/21/09	592.3	591.95	2.85	12.85	8.22	6.26	1.96	585.45	6.50
	03/18/09	592.3	591.95	2.85	12.85	8.07	6.16	1.91	585.56	6.39
	10/17/09	592.3	591.95	2.85	12.85	8.46	6.39	2.07	585.31	6.64
	10/23/09	592.3	591.95	2.85	12.85	8.07	6.34	1.73	585.40	6.55
	06/24/10	592.3	591.95	2.85	12.85	8.31	5.06	3.25	586.50	5.45
	07/08/10	592.3	591.95	2.85	12.85	8.88	4.62	4.26	586.82	5.13
	07/22/10	592.3	591.95	2.85	12.85	9.86	4.81	5.05	586.53	5.42
	07/29/10	592.3	591.95	2.85	12.85	8.27	5.11	3.16	586.46	5.49
	08/06/10	592.3	591.95	2.85	12.85	8.13	5.41	2.72	586.21	5.74
	08/13/10	592.3	591.95	2.85	12.85	6.83	4.04	2.79	587.58	4.37
	08/27/10	592.3	591.95	2.85	12.85	7.40	4.42	2.98	587.17	4.78
	09/23/10	592.3	591.95	2.85	12.85	5.54	3.05	2.49	588.60	3.35
	10/15/10	592.3	591.95	2.85	12.85	7.14	4.01	3.13	587.56	4.39
	10/29/10	592.3	591.95	2.85	12.85	6.90	3.99	2.91	587.61	4.34
	12/07/10	592.3	591.95	2.85	12.85	7.61	3.87	3.74	587.63	4.32
	03/18/11	592.3	591.95	2.85	12.85	6.57	3.54	3.03	588.05	3.90
	04/08/11	592.3	591.95	2.85	12.85	6.15	2.77	3.38	588.77	3.18
	05/09/11	592.3	591.95	2.85	12.85	5.98	3.11	2.87	588.50	3.45
	06/09/11	592.3	591.95	2.85	12.85	6.31	3.16	3.15	588.41	3.54
	07/05/11	592.3	591.95	2.85	12.85	5.62	3.31	2.31	588.36	3.59
	08/23/11	592.3	591.95	2.85	12.85	4.21	2.88	1.33	588.91	3.04
	10/14/11	592.3	591.95	2.85	12.85	5.72	3.81	1.91	587.91	4.04
	01/24/12	592.3	591.95	2.85	12.85	6.28	1.66	4.62	589.74	2.21
	03/20/12	592.3	591.95	2.85	12.85	5.41	2.67	2.74	588.95	3.00
	04/23/12	592.3	591.95	2.85	12.85	5.53	2.16	3.37	589.39	2.56
	06/11/12	592.3	591.95	2.85	12.85	6.72	2.87	3.85	588.62	3.33
	07/10/12	592.3	591.95	2.85	12.85	5.41	3.69	1.72	588.05	3.90
	08/29/12	592.3	591.95	2.85	12.85	5.75	3.04	2.71	588.58	3.37
	09/12/12	592.3	591.95	2.85	12.85	4.25	2.90	1.35	588.89	3.06
	11/06/12	592.3	591.95	2.85	12.85	4.06	3.04	1.02	588.79	3.16
	12/05/12	592.3	591.95	2.85	12.85	4.41	3.26	1.15	588.55	3.40
	04/03/13	592.3	591.95	2.85	12.85	4.91	3.37	1.54	588.40	3.55
	07/18/13	592.3	591.95	2.85	12.85	3.48	2.80	0.68	589.07	2.88
	09/23/13	592.3	591.95	2.85	12.85	4.34	3.74	0.60	588.14	3.81
	06/02/14	592.3	591.95	2.85	12.85	3.06	2.36	0.70	589.51	2.44
	07/09/14	592.3	591.95	2.85	12.85	2.92	1.07	1.85	590.66	1.29
	07/31/14	592.3	591.95	2.85	12.85	3.17	1.99	1.18	589.82	2.13
	09/16/14	592.3	591.95	2.85	12.85	3.31	2.27	1.04	589.56	2.39
	03/24/15	592.3	591.95	2.85	12.85	4.51	3.14	1.37	588.65	3.30
	06/17/15	592.3	591.95	2.85	12.85	3.31	1.25	2.06	590.45	1.50
	09/09/15	592.3	591.95	2.85	12.85	3.81	1.11	2.70	590.52	1.43
	12/04/15	592.3	591.95	2.85	12.85	4.70	3.48	1.22	588.32	3.63
	03/15/16	592.3	591.95	2.85	12.85	5.13	1.94	3.19	589.63	2.32
	06/17/16	592.3	591.95	2.85	12.85	2.23	1.17	1.06	590.65	1.30
	09/22/16	592.3	591.95	2.85	12.85	3.82	2.86	0.96	588.97	2.98
	09/27/16	ABANDONED								
OPTW-01R	09/06/17	594.69	594.49	2.00	12.00	4.14	—	—	590.35	4.14
	11/27/17	594.69	594.49	2.00	12.00	4.17	—	—	590.32	4.17

Table 2

**Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan**

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QPTW-02	03/17/05	592.6	592.35	2.80	12.80	7.54	7.51	0.03	584.84	7.51
	04/12/05	592.6	592.35	2.80	12.80	7.64	7.58	0.06	584.76	7.59
	05/31/05	592.6	592.35	2.80	12.80	7.54	7.50	0.04	584.85	7.50
	06/24/05	592.6	592.35	2.80	12.80	7.41	7.38	0.03	584.97	7.38
	08/12/05	592.6	592.35	2.80	12.80	7.30	7.26	0.04	585.09	7.26
	10/14/05	592.6	592.35	2.80	12.80	7.50	7.44	0.06	584.90	7.45
	11/08/05	592.6	592.35	2.80	12.80	7.52	7.49	0.03	584.86	7.49
	12/19/05	592.6	592.35	2.80	12.80	7.67	7.63	0.04	584.72	7.63
	01/31/06	592.6	592.35	2.80	12.80	7.53	7.48	0.05	584.86	7.49
	02/15/06	592.6	592.35	2.80	12.80	7.50	7.47	0.03	584.88	7.47
	03/13/06	592.6	592.35	2.80	12.80	7.30	7.26	0.04	585.09	7.26
	04/10/06	592.6	592.35	2.80	12.80	7.39	7.36	0.03	584.99	7.36
	05/22/06	592.6	592.35	2.80	12.80	7.38	7.35	0.03	585.00	7.35
	06/21/06	592.6	592.35	2.80	12.80	7.33	7.29	0.04	585.06	7.29
	07/11/06	592.6	592.35	2.80	12.80	7.29	7.26	0.03	585.09	7.26
	08/23/06	592.6	592.35	2.80	12.80	7.28	7.26	0.02	585.09	7.26
	09/26/06	592.6	592.35	2.80	12.80	7.39	7.37	0.02	584.98	7.37
	10/30/06	592.6	592.35	2.80	12.80	7.38	7.35	0.03	585.00	7.35
	11/27/06	592.6	592.35	2.80	12.80	7.41	7.38	0.03	584.97	7.38
	12/27/06	592.6	592.35	2.80	12.80	7.44	7.42	0.02	584.93	7.42
	01/15/07	592.6	592.35	2.80	12.80	7.46	7.42	0.04	584.93	7.42
	02/21/07	592.6	592.35	2.80	12.80	7.47	7.46	0.01	584.89	7.46
	03/23/07	592.6	592.35	2.80	12.80	7.42	7.40	0.02	584.95	7.40
	04/09/07	592.6	592.35	2.80	12.80	7.45	7.43	0.02	584.92	7.43
	05/15/07	592.6	592.35	2.80	12.80	7.50	7.48	0.02	584.87	7.48
	08/16/07	592.6	592.35	2.80	12.80	7.65	7.62	0.03	584.73	7.62
	09/17/07	592.6	592.35	2.80	12.80	7.51	7.48	0.03	584.87	7.48
	11/26/07	592.6	592.35	2.80	12.80	7.73	7.71	0.02	584.64	7.71
	12/12/07	592.6	592.35	2.80	12.80	7.76	7.74	0.02	584.61	7.74
	01/11/08	592.6	592.35	2.80	12.80	7.15	7.14	0.01	585.21	7.14
	02/05/08	592.6	592.35	2.80	12.80	7.27	7.26	0.01	585.09	7.26
	04/11/08	592.6	592.35	2.80	12.80	6.79	---	---	585.56	6.79
	05/16/08	592.6	592.35	2.80	12.80	7.30	---	---	585.05	7.30
	10/29/08	592.6	592.35	2.80	12.80	6.99	---	---	585.36	6.99
	01/21/09	592.6	592.35	2.80	12.80	6.53	---	---	585.82	6.53
	03/18/09	592.6	592.35	2.80	12.80	6.28	---	---	586.07	6.28
	10/17/09	592.6	592.35	2.80	12.80	6.93	---	---	585.42	6.93
	10/23/09	592.6	592.35	2.80	12.80	7.08	---	---	585.27	7.08
	10/15/10	592.6	592.35	2.80	12.80	5.23	---	---	587.12	5.23
	10/29/10	592.6	592.35	2.80	12.80	5.30	---	---	587.05	5.30
	03/18/11	592.6	592.35	2.80	12.80	3.96	---	---	588.39	3.96
	04/08/11	592.6	592.35	2.80	12.80	3.19	---	---	589.16	3.19
	05/09/11	592.6	592.35	2.80	12.80	3.47	---	---	588.88	3.47
	06/09/11	592.6	592.35	2.80	12.80	3.58	---	---	588.77	3.58
	07/05/11	592.6	592.35	2.80	12.80	3.79	---	---	588.56	3.79
	08/23/11	592.6	592.35	2.80	12.80	3.11	---	---	589.24	3.11
	10/14/11	592.6	592.35	2.80	12.80	4.04	---	---	588.31	4.04
	11/23/11	592.6	592.35	2.80	12.80	3.81	---	---	588.54	3.81
	03/20/12	592.6	592.35	2.80	12.80	2.77	---	---	589.58	2.77
	04/23/12	592.6	592.35	2.80	12.80	3.02	---	---	589.33	3.02
	06/11/12	592.6	592.35	2.80	12.80	3.22	---	---	589.13	3.22
	07/10/12	592.6	592.35	2.80	12.80	3.88	---	---	588.47	3.88
	08/29/12	592.6	592.35	2.80	12.80	3.22	---	---	589.13	3.22
	09/12/12	592.6	592.35	2.80	12.80	3.01	---	---	589.34	3.01
	10/01/12	592.6	592.35	2.80	12.80	3.79	---	---	588.56	3.79
	11/06/12	592.6	592.35	2.80	12.80	2.98	---	---	589.37	2.98
	12/05/12	592.6	592.35	2.80	12.80	3.61	---	---	588.74	3.61
	04/03/13	592.6	592.35	2.80	12.80	3.25	---	---	589.10	3.25
	07/18/13	592.6	592.35	2.80	12.80	2.59	---	---	589.76	2.59
	09/23/13	592.6	592.35	2.80	12.80	3.94	---	---	588.41	3.94
	04/25/14	592.6	592.35	2.80	12.80	1.81	---	---	590.54	1.81
	06/02/14	592.6	592.35	2.80	12.80	2.62	---	---	589.73	2.62
	07/31/14	592.6	592.35	2.80	12.80	2.31	---	---	590.04	2.31
	09/16/14	592.6	592.35	2.80	12.80	2.36	---	---	589.99	2.36
	03/24/15	592.6	592.35	2.80	12.80	3.20	---	---	589.15	3.20
	06/17/15	592.6	592.35	2.80	12.80	under water	---	---	---	under water
	09/09/15	592.6	592.35	2.80	12.80	1.84	---	---	590.51	1.84
	12/04/15	592.6	592.35	2.80	12.80	3.85	---	---	588.50	3.85
	03/15/16	592.6	592.35	2.80	12.80	1.98	---	---	590.37	1.98
	06/17/16	592.6	592.35	2.80	12.80	1.66	---	---	590.69	1.66
	09/22/16	592.6	592.35	2.80	12.80	2.98	---	---	589.37	2.98
	09/27/16	ABANDONED								
QPTW-03R	04/25/14	592.5	592.13	2.75	12.75	2.19	1.82	0.37	590.27	1.86
	06/02/14	592.5	592.13	2.75	12.75	3.13	2.86	0.27	589.24	2.89
	07/09/14	592.5	592.13	2.75	12.75	2.10	1.98	0.12	590.14	1.99
	07/31/14	592.5	592.13	2.75	12.75	2.74	2.66	0.08	589.46	2.67
	09/16/14	592.5	592.13	2.75	12.75	3.27	---	---	588.86	3.27
	03/24/15	592.5	592.13	2.75	12.75	3.56	3.55	0.01	588.58	3.55
	06/17/15	592.5	592.13	2.75	12.75	3.36	2.72	0.64	589.33	2.80
	09/09/15	592.5	592.13	2.75	12.75	2.74	2.46	0.28	589.64	2.49
	12/04/15	592.5	592.13	2.75	12.75	4.14	---	---	587.99	4.14
	03/15/16	592.5	592.13	2.75	12.75	2.46	2.39	0.07	589.73	2.40
	06/17/16	592.5	592.13	2.75	12.75	2.30	1.77	0.53	590.30	1.83
	09/22/16	592.5	592.13	2.75	12.75	3.78	3.05	0.73	588.99	3.14
	09/27/16	ABANDONED								
QPTW-03R2	09/06/17	594.91	594.61	2.00	12.00	5.24	---	---	589.37	5.24
	11/27/17	594.91	594.61	2.00	12.00	5.07	4.85	0.22	589.73	4.88

Table 2

**Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan**

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QPTW-04	03/17/05	592.3	591.73	2.50	12.50	8.54	7.51	1.03	584.10	7.63
	04/12/05	592.3	591.73	2.50	12.50	8.53	7.54	0.99	584.07	7.66
	05/31/05	592.3	591.73	2.50	12.50	8.58	7.50	1.08	584.10	7.63
	06/24/05	592.3	591.73	2.50	12.50	8.34	7.29	1.05	584.31	7.42
	08/12/05	592.3	591.73	2.50	12.50	8.28	7.26	1.02	584.35	7.38
	10/14/05	592.3	591.73	2.50	12.50	8.61	7.68	0.93	583.94	7.79
	11/08/05	592.3	591.73	2.50	12.50	8.70	7.72	0.98	583.89	7.84
	12/19/05	592.3	591.73	2.50	12.50	8.87	7.83	1.04	583.78	7.95
	01/31/06	592.3	591.73	2.50	12.50	8.58	7.46	1.12	584.14	7.59
	02/15/06	592.3	591.73	2.50	12.50	8.45	7.33	1.12	584.27	7.46
	03/13/06	592.3	591.73	2.50	12.50	8.14	7.16	0.98	584.45	7.28
	04/10/06	592.3	591.73	2.50	12.50	8.29	7.32	0.97	584.29	7.44
	05/22/06	592.3	591.73	2.50	12.50	8.41	7.39	1.02	584.22	7.51
	06/21/06	592.3	591.73	2.50	12.50	8.34	7.41	0.93	584.21	7.52
	07/11/06	592.3	591.73	2.50	12.50	8.16	7.12	1.04	584.49	7.24
	08/23/06	592.3	591.73	2.50	12.50	8.39	7.10	1.29	584.48	7.25
	09/26/06	592.3	591.73	2.50	12.50	8.09	7.11	0.98	584.50	7.23
	10/30/06	592.3	591.73	2.50	12.50	8.05	7.08	0.97	584.53	7.20
	11/27/06	592.3	591.73	2.50	12.50	8.08	7.19	0.89	584.43	7.30
	12/27/06	592.3	591.73	2.50	12.50	8.58	7.48	1.10	584.12	7.61
	01/15/07	592.3	591.73	2.50	12.50	8.07	7.29	0.78	584.35	7.38
	02/21/07	592.3	591.73	2.50	12.50	8.45	7.57	0.88	584.05	7.68
	03/23/07	592.3	591.73	2.50	12.50	8.32	7.56	0.76	584.08	7.65
	04/09/07	592.3	591.73	2.50	12.50	8.47	7.52	0.95	584.10	7.63
	05/15/07	592.3	591.73	2.50	12.50	8.42	7.51	0.91	584.11	7.62
	06/11/07	592.3	591.73	2.50	12.50	8.61	7.64	0.97	583.97	7.76
	07/11/07	592.3	591.73	2.50	12.50	8.67	7.61	1.06	583.99	7.74
	08/16/07	592.3	591.73	2.50	12.50	8.80	7.69	1.11	583.91	7.82
	09/17/07	592.3	591.73	2.50	12.50	8.62	7.54	1.08	584.06	7.67
	11/26/07	592.3	591.73	2.50	12.50	9.05	7.99	1.06	583.61	8.12
	12/12/07	592.3	591.73	2.50	12.50	9.15	8.09	1.06	583.51	8.22
	01/11/08	592.3	591.73	2.50	12.50	8.81	7.82	0.99	583.79	7.94
	02/05/08	592.3	591.73	2.50	12.50	8.69	7.64	1.05	583.96	7.77
	04/11/08	592.3	591.73	2.50	12.50	7.75	6.68	1.07	584.92	6.81
	05/16/08	592.3	591.73	2.50	12.50	7.82	6.81	1.01	584.80	6.93
	10/29/08	592.3	591.73	2.50	12.50	7.70	6.69	1.01	584.92	6.81
	01/21/09	592.3	591.73	2.50	12.50	7.35	6.61	0.74	585.03	6.70
	03/18/09	592.3	591.73	2.50	12.50	6.86	6.12	0.74	585.52	6.21
	10/17/09	592.3	591.73	2.50	12.50	7.76	6.85	0.91	584.77	6.96
	10/23/09	592.3	591.73	2.50	12.50	7.76	6.83	0.93	584.79	6.94
	06/09/10	592.3	591.73	2.50	12.50	6.23	5.65	0.58	586.01	5.72
	08/27/10	592.3	591.73	2.50	12.50	7.06	6.17	0.89	585.45	6.28
	09/17/10	592.3	591.73	2.50	12.50	5.61	5.02	0.59	586.64	5.09
	09/23/10	592.3	591.73	2.50	12.50	5.47	4.87	0.60	586.79	4.94
	10/15/10	592.3	591.73	2.50	12.50	6.03	5.20	0.83	586.43	5.30
	10/29/10	592.3	591.73	2.50	12.50	6.39	5.86	0.53	585.81	5.92
	03/18/11	592.3	591.73	2.50	12.50	5.16	4.20	0.96	587.41	4.32
	04/08/11	592.3	591.73	2.50	12.50	4.27	3.54	0.73	588.10	3.63
	05/09/11	592.3	591.73	2.50	12.50	4.60	3.64	0.96	587.97	3.76
	06/09/11	592.3	591.73	2.50	12.50	4.35	3.63	0.72	588.01	3.72
	07/05/11	592.3	591.73	2.50	12.50	4.84	3.87	0.97	587.74	3.99
	08/23/11	592.3	591.73	2.50	12.50	4.16	3.34	0.82	588.29	3.44
	03/20/12	592.3	591.73	2.50	12.50	5.21	2.78	2.43	588.66	3.07
	04/23/12	592.3	591.73	2.50	12.50	5.59	3.06	2.53	588.37	3.36
	06/11/12	592.3	591.73	2.50	12.50	5.85	3.16	2.69	588.25	3.48
	07/10/12	592.3	591.73	2.50	12.50	5.97	3.40	2.57	588.02	3.71
	08/29/12	592.3	591.73	2.50	12.50	5.32	2.99	2.33	588.46	3.27
	09/12/12	592.3	591.73	2.50	12.50	5.03	2.68	2.35	588.77	2.96
	10/01/12	592.3	591.73	2.50	12.50	5.80	3.31	2.49	588.12	3.61
	11/06/12	592.3	591.73	2.50	12.50	4.85	2.88	1.97	588.61	3.12
	12/05/12	592.3	591.73	2.50	12.50	5.49	3.50	1.99	587.99	3.74
	04/03/13	592.3	591.73	2.50	12.50	5.36	3.16	2.20	588.31	3.42
	07/18/13	592.3	591.73	2.50	12.50	4.74	2.48	2.26	588.98	2.75
	09/23/13	592.3	591.73	2.50	12.50	4.73	3.61	1.12	587.99	3.74
	04/25/14	592.3	591.73	2.50	12.50	3.16	1.73	1.43	589.83	1.90
	06/02/14	592.3	591.73	2.50	12.50	3.95	2.39	1.59	589.15	2.58
	07/09/14	593.3	592.73	2.50	12.50	2.74	1.61	1.13	590.98	1.75
	07/31/14	592.3	591.73	2.50	12.50	3.53	2.33	1.20	589.26	2.47
	09/16/14	591.3	590.73	2.50	12.50	4.00	2.10	1.90	588.40	2.33
	03/24/15	590.3	589.73	2.50	12.50	4.66	3.02	1.64	586.51	3.22
	06/17/15	589.3	588.73	2.50	12.50	3.51	2.05	1.46	586.50	2.23
	09/09/15	588.3	587.73	2.50	12.50	4.09	2.64	1.45	584.92	2.81
	12/04/15	587.3	586.73	2.50	12.50	5.56	3.51	2.05	582.97	3.76
	03/15/16	586.3	585.73	2.50	12.50	3.68	1.76	1.92	583.74	1.99
	06/17/16	585.3	584.73	2.50	12.50	2.27	2.16	0.11	582.56	2.17
	09/22/16	584.3	583.73	2.50	12.50	4.61	2.80	1.81	580.71	3.02
	09/27/16	ABANDONED								
QPTW-04R	09/06/17	594.96	594.46	2.00	12.00	5.61	4.75	0.86	589.61	4.85
	11/27/17	594.96	594.46	2.00	12.00	5.10	4.51	0.59	589.88	4.58

Table 2

Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QPTW-05	03/17/05	592.4	592.13	2.70	12.70	8.94	7.67	1.27	584.31	7.82
	04/12/05	592.4	592.13	2.70	12.70	8.98	7.69	1.29	584.29	7.84
	05/31/05	592.4	592.13	2.70	12.70	9.10	7.73	1.37	584.24	7.89
	06/24/05	592.4	592.13	2.70	12.70	8.65	7.50	1.15	584.49	7.64
	08/12/05	592.4	592.13	2.70	12.70	8.76	7.68	1.08	584.32	7.81
	10/14/05	592.4	592.13	2.70	12.70	9.38	7.91	1.47	584.04	8.09
	11/08/05	592.4	592.13	2.70	12.70	9.55	7.99	1.56	583.95	8.18
	12/19/05	592.4	592.13	2.70	12.70	9.74	8.05	1.69	583.88	8.25
	01/31/06	592.4	592.13	2.70	12.70	8.84	7.68	1.16	584.31	7.82
	02/15/06	592.4	592.13	2.70	12.70	8.63	7.54	1.09	584.46	7.67
	03/13/06	592.4	592.13	2.70	12.70	8.20	7.33	0.87	584.70	7.43
	04/10/06	592.4	592.13	2.70	12.70	8.44	7.47	0.97	584.54	7.59
	05/22/06	592.4	592.13	2.70	12.70	8.65	7.58	1.07	584.42	7.71
	06/21/06	592.4	592.13	2.70	12.70	8.70	6.71	1.99	585.18	6.95
	07/11/06	592.4	592.13	2.70	12.70	8.35	7.38	0.97	584.63	7.50
	08/23/06	592.4	592.13	2.70	12.70	8.52	7.46	1.06	584.54	7.59
	09/26/06	592.4	592.13	2.70	12.70	8.46	7.45	1.01	584.56	7.57
	10/30/06	592.4	592.13	2.70	12.70	8.32	7.33	0.99	584.68	7.45
	11/27/06	592.4	592.13	2.70	12.70	8.50	7.44	1.06	584.56	7.57
	12/27/06	592.4	592.13	2.70	12.70	8.18	7.23	0.95	584.79	7.34
	01/15/07	592.4	592.13	2.70	12.70	8.55	7.49	1.06	584.51	7.62
	02/21/07	592.4	592.13	2.70	12.70	9.27	7.84	1.43	584.12	8.01
	03/23/07	592.4	592.13	2.70	12.70	9.19	7.81	1.38	584.15	7.98
	04/09/07	592.4	592.13	2.70	12.70	9.27	7.77	1.50	584.18	7.95
	05/15/07	592.4	592.13	2.70	12.70	9.11	7.74	1.37	584.23	7.90
	06/11/07	592.4	592.13	2.70	12.70	9.41	7.92	1.49	584.03	8.10
	07/11/07	592.4	592.13	2.70	12.70	9.52	7.96	1.56	583.98	8.15
	08/16/07	592.4	592.13	2.70	12.70	9.71	8.04	1.67	583.89	8.24
	09/17/07	592.4	592.13	2.70	12.70	9.25	7.82	1.43	584.14	7.99
	11/26/07	592.4	592.13	2.70	12.70	10.10	8.21	1.89	583.69	8.44
	12/12/07	592.4	592.13	2.70	12.70	10.31	8.30	2.01	583.59	8.54
	01/11/08	592.4	592.13	2.70	12.70	9.62	8.07	1.55	583.87	8.26
	02/05/08	592.4	592.13	2.70	12.70	9.05	7.90	1.15	584.09	8.04
	04/11/08	592.4	592.13	2.70	12.70	7.50	7.00	0.50	585.07	7.06
	05/16/08	592.4	592.13	2.70	12.70	7.67	7.12	0.55	584.94	7.19
	10/29/08	592.4	592.13	2.70	12.70	7.71	7.23	0.48	584.84	7.29
	01/21/09	592.4	592.13	2.70	12.70	7.43	6.87	0.56	585.19	6.94
	03/18/09	592.4	592.13	2.70	12.70	7.11	6.57	0.54	585.50	6.63
	10/17/09	592.4	592.13	2.70	12.70	7.98	7.18	0.80	584.85	7.28
	10/23/09	592.4	592.13	2.70	12.70	7.68	7.09	0.59	584.97	7.16
	06/09/10	592.4	592.13	2.70	12.70	7.07	6.23	0.84	585.80	6.33
	06/24/10	592.4	592.13	2.70	12.70	7.40	6.59	0.81	585.44	6.69
	07/29/10	592.4	592.13	2.70	12.70	7.34	6.14	1.20	585.85	6.28
	08/06/10	592.4	592.13	2.70	12.70	7.31	6.28	1.03	585.73	6.40
	08/13/10	592.4	592.13	2.70	12.70	6.08	5.57	0.51	586.50	5.63
	08/27/10	592.4	592.13	2.70	12.70	6.51	5.70	0.81	586.33	5.80
	09/17/10	592.4	592.13	2.70	12.70	6.36	5.83	0.53	586.24	5.89
	09/23/10	592.4	592.13	2.70	12.70	6.12	5.59	0.53	586.48	5.65
	10/15/10	592.4	592.13	2.70	12.70	6.31	6.01	0.30	586.08	6.05
	10/29/10	592.4	592.13	2.70	12.70	5.48	5.14	0.34	586.95	5.18
	12/07/10	592.4	592.13	2.70	12.70	6.46	5.72	0.74	586.32	5.81
	01/03/11	592.4	592.13	2.70	12.70	5.99	5.71	0.28	586.39	5.74
	03/18/11	592.4	592.13	2.70	12.70	5.43	5.11	0.32	586.98	5.15
	04/08/11	592.4	592.13	2.70	12.70	4.63	4.32	0.31	587.77	4.36
	05/09/11	592.4	592.13	2.70	12.70	4.55	4.31	0.24	587.79	4.34
	06/09/11	592.4	592.13	2.70	12.70	4.83	4.56	0.27	587.54	4.59
	07/05/11	592.4	592.13	2.70	12.70	5.11	4.64	0.47	587.43	4.70
	08/23/11	592.4	592.13	2.70	12.70	4.26	4.03	0.23	588.07	4.06
	10/14/11	592.4	592.13	2.70	12.70	5.28	4.94	0.34	587.15	4.98
	11/23/11	592.4	592.13	2.70	12.70	4.75	4.42	0.33	587.67	4.46
	01/24/12	592.4	592.13	2.70	12.70	3.73	3.58	0.15	588.53	3.60
	03/20/12	592.4	592.13	2.70	12.70	4.05	3.72	0.33	588.37	3.76
	04/23/12	592.4	592.13	2.70	12.70	4.10	3.74	0.36	588.35	3.78
	06/11/12	592.4	592.13	2.70	12.70	4.44	4.00	0.44	588.08	4.05
	07/10/12	592.4	592.13	2.70	12.70	5.17	4.52	0.65	587.53	4.60
	08/29/12	592.4	592.13	2.70	12.70	4.44	3.80	0.64	588.25	3.88
	09/12/12	592.4	592.13	2.70	12.70	4.39	3.63	0.76	588.41	3.72
	11/06/12	592.4	592.13	2.70	12.70	4.49	3.69	0.80	588.34	3.79
	12/05/12	592.4	592.13	2.70	12.70	5.28	4.31	0.97	587.70	4.43
	04/03/13	592.4	592.13	2.70	12.70	5.07	4.01	1.06	587.99	4.14
	07/18/13	592.4	592.13	2.70	12.70	4.80	3.10	1.70	588.83	3.30
	09/23/13	592.4	592.13	2.70	12.70	6.20	4.26	1.94	587.64	4.49
	04/25/14	592.4	592.13	2.70	12.70	4.87	2.36	2.51	589.47	2.66
	06/02/14	592.4	592.13	2.70	12.70	4.45	3.16	1.29	588.82	3.31
	07/09/14	592.4	592.13	2.70	12.70	3.66	2.19	1.47	589.76	2.37
	07/31/14	592.4	592.13	2.70	12.70	4.25	2.93	1.32	589.04	3.09
	09/16/14	592.4	592.13	2.70	12.70	4.77	2.99	1.78	588.93	3.20
	03/24/15	592.4	592.13	2.70	12.70	5.11	3.70	1.41	588.26	3.87
	06/17/15	592.4	592.13	2.70	12.70	4.77	2.59	2.18	589.28	2.85
	09/09/15	592.4	592.13	2.70	12.70	5.30	2.49	2.81	589.30	2.83
	12/04/15	592.4	592.13	2.70	12.70	6.38	4.10	2.28	587.76	4.37
	03/15/16	592.4	592.13	2.70	12.70	4.86	2.49	2.37	589.36	2.77
	06/17/16	592.4	592.13	2.70	12.70	4.14	1.99	2.15	589.88	2.25
	09/22/16	592.4	592.13	2.70	12.70	5.67	3.15	2.52	588.68	3.45
	09/27/16	ABANDONED								
QPTW-05R	09/06/17	595	594.28	2.00	12.00	5.64	4.98	0.66	589.22	5.06
	11/27/17	595	594.28	2.00	12.00	5.41	4.75	0.66	589.45	4.83

Table 2

**Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan**

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QPTW-10	03/17/05	592.4	592.15	2.60	12.60	9.83	7.58	2.25	584.30	7.85
	04/12/05	592.4	592.15	2.60	12.60	9.96	7.63	2.33	584.24	7.91
	05/31/05	592.4	592.15	2.60	12.60	10.29	7.83	2.46	584.02	8.13
	06/24/05	592.4	592.15	2.60	12.60	9.72	7.43	2.29	584.45	7.70
	08/12/05	592.4	592.15	2.60	12.60	9.79	7.58	2.21	584.30	7.85
	10/14/05	592.4	592.15	2.60	12.60	10.56	7.80	2.76	584.02	8.13
	11/08/05	592.4	592.15	2.60	12.60	10.82	7.88	2.94	583.92	8.23
	12/19/05	592.4	592.15	2.60	12.60	11.01	7.95	3.06	583.83	8.32
	01/31/06	592.4	592.15	2.60	12.60	9.79	7.54	2.25	584.34	7.81
	02/15/06	592.4	592.15	2.60	12.60	9.73	7.44	2.29	584.44	7.71
QPTW-10R	03/13/06	592.4	592.15	2.60	12.60	9.22	7.23	1.99	584.68	7.47
	04/10/06	592.4	592.15	2.60	12.60	9.59	7.34	2.25	584.54	7.61
	05/22/06	592.4	592.15	2.60	12.60	9.95	7.43	2.52	584.42	7.73
	06/21/06	592.4	592.15	2.60	12.60	10.00	7.49	2.51	584.36	7.79
	07/11/06	592.4	592.15	2.60	12.60	9.69	7.30	2.39	584.56	7.59
	08/23/06	592.4	592.15	2.60	12.60	9.58	7.30	2.28	584.58	7.57
	09/26/06	592.4	592.15	2.60	12.60	9.85	7.33	2.52	584.52	7.63
	10/30/06	592.4	592.15	2.60	12.60	9.68	7.19	2.49	584.66	7.49
	11/27/06	592.4	592.15	2.60	12.60	9.91	7.33	2.58	584.51	7.64
	12/27/06	592.4	592.15	2.60	12.60	9.99	7.34	2.65	584.49	7.66
	01/15/07	592.4	592.15	2.60	12.60	9.90	7.37	2.53	584.48	7.67
	02/21/07	592.4	592.15	2.60	12.60	10.81	7.78	3.03	584.01	8.14
	03/23/07	592.4	592.15	2.60	12.60	10.71	7.72	2.99	584.07	8.08
	04/09/07	592.4	592.15	2.60	12.60	10.63	7.64	2.99	584.15	8.00
	05/15/07	592.4	592.15	2.60	12.60	10.38	7.46	2.92	584.34	7.81
	06/11/07	592.4	592.15	2.60	12.60	10.81	7.81	3.00	583.98	8.17
	07/11/07	592.4	592.15	2.60	12.60	11.05	7.86	3.19	583.91	8.24
	08/16/07	592.4	592.15	2.60	12.60	11.27	7.95	3.32	583.80	8.35
	09/17/07	592.4	592.15	2.60	12.60	10.54	7.73	2.81	584.08	8.07
	11/26/07	592.4	592.15	2.60	12.60	11.57	8.11	3.46	583.62	8.53
	12/12/07	592.4	592.15	2.60	12.60	11.80	8.18	3.62	583.54	8.61
	01/11/08	592.4	592.15	2.60	12.60	10.96	7.95	3.01	583.84	8.31
	02/05/08	592.4	592.15	2.60	12.60	10.21	7.78	2.43	584.08	8.07
	04/11/08	592.4	592.15	2.60	12.60	8.71	6.83	1.88	585.09	7.06
	05/16/08	592.4	592.15	2.60	12.60	8.91	6.95	1.96	584.96	7.19
	10/29/08	592.4	592.15	2.60	12.60	9.12	6.94	2.18	584.95	7.20
	01/21/09	592.4	592.15	2.60	12.60	7.96	6.68	1.28	585.32	6.83
	03/18/09	592.4	592.15	2.60	12.60	8.69	6.36	2.33	585.51	6.64
	10/17/09	592.4	592.15	2.60	12.60	9.10	7.04	2.06	584.86	7.29
	10/23/09	592.4	592.15	2.60	12.60	8.67	6.97	1.70	584.98	7.17
	06/09/10	592.4	592.15	2.60	12.60	8.42	6.23	2.19	585.66	6.49
	06/24/10	592.4	592.15	2.60	12.60	8.91	6.48	2.43	585.38	6.77
	07/29/10	592.4	592.15	2.60	12.60	9.37	6.51	2.86	585.30	6.85
	08/06/10	592.4	592.15	2.60	12.60	9.22	6.71	2.51	585.14	7.01
	08/13/10	592.4	592.15	2.60	12.60	8.06	5.73	2.33	586.14	6.01
	08/27/10	592.4	592.15	2.60	12.60	8.83	6.03	2.80	585.78	6.37
	09/17/10	592.4	592.15	2.60	12.60	8.68	5.72	2.96	586.07	6.08
	09/23/10	592.4	592.15	2.60	12.60	8.54	5.64	2.90	586.16	5.99
	10/15/10	592.4	592.15	2.60	12.60	8.92	5.82	3.10	585.96	6.19
	10/29/10	592.4	592.15	2.60	12.60	8.87	5.68	3.19	586.09	6.06
	03/18/11	592.4	592.15	2.60	12.60	8.03	4.92	3.11	586.86	5.29
	04/08/11	592.4	592.15	2.60	12.60	7.75	4.06	3.69	587.65	4.50
	05/09/11	592.4	592.15	2.60	12.60	8.24	3.95	4.29	587.69	4.46
	06/09/11	592.4	592.15	2.60	12.60	8.28	4.24	4.04	587.43	4.72
	07/05/11	592.4	592.15	2.60	12.60	8.75	4.38	4.37	587.25	4.90
	08/23/11	592.4	592.15	2.60	12.60	8.50	3.67	4.83	587.90	4.25
	10/14/11	592.4	592.15	2.60	12.60	8.64	4.58	4.06	587.08	5.07
	11/23/11	592.4	592.15	2.60	12.60	8.38	3.98	4.40	587.64	4.51
	04/23/12	592.4	592.15	2.60	12.60	4.13	3.78	0.35	588.33	3.82
	07/10/12	592.4	592.15	2.60	12.60	5.65	4.51	1.14	587.50	4.65
	11/12/14	592.4	592.15	2.60	12.60	4.83	3.91	0.92	588.13	4.02
	09/09/15	592.4	592.15	2.60	12.60	2.99	2.85	0.14	589.28	2.87
	03/15/16	592.4	592.15	2.60	12.60	3.37	2.77	0.60	589.31	2.84
	06/17/16	592.4	592.15	2.60	12.60	2.84	2.41	0.43	589.69	2.46
	09/22/16	592.4	592.15	2.60	12.60	5.60	3.27	2.33	588.60	3.55
	09/27/16	ABANDONED								
QPTW-10R	09/06/17	594.82	594.20	2.00	12.00	4.99	---	---	589.21	4.99
	11/27/17	594.82	594.20	2.00	12.00	4.77	---	---	589.43	4.77
QPTW-13	10/15/10	592.7	592.36	2.76	12.76	7.17	6.65	0.52	585.65	6.71
	10/29/10	592.7	592.36	2.76	12.76	6.77	6.49	0.28	585.84	6.52
	03/18/11	592.7	592.36	2.76	12.76	4.56	4.47	0.09	587.88	4.48
	05/09/11	592.7	592.36	2.76	12.76	4.59	4.56	0.03	587.80	4.56
	06/09/11	592.7	592.36	2.76	12.76	4.88	4.85	0.03	587.51	4.85
	07/05/11	592.7	592.36	2.76	12.76	5.08	5.02	0.06	587.33	5.03
	08/23/11	592.7	592.36	2.76	12.76	4.43	4.38	0.05	587.97	4.39
	10/14/11	592.7	592.36	2.76	12.76	5.12	5.03	0.09	587.32	5.04
	03/20/12	592.7	592.36	2.76	12.76	4.12	---	---	588.24	4.12
	04/23/12	592.7	592.36	2.76	12.76	4.16	4.15	0.01	588.21	4.15
	06/11/12	592.7	592.36	2.76	12.76	4.38	---	---	587.98	4.38
	07/10/12	592.7	592.36	2.76	12.76	5.06	4.84	0.22	587.49	4.87
	08/29/12	592.7	592.36	2.76	12.76	4.30	4.24	0.06	588.11	4.25
	09/12/12	592.7	592.36	2.76	12.76	4.13	4.09	0.04	588.27	4.09
	04/15/13	592.7	592.36	2.76	12.76	2.85	---	---	589.51	2.85
	07/18/13	592.7	592.36	2.76	12.76	3.54	---	---	588.82	3.54
	09/23/13	592.7	592.36	2.76	12.76	4.74	4.71	0.03	587.65	4.71
	04/25/14	592.7	592.36	2.76	12.76	2.98	---	---	589.38	2.98
	06/02/14	592.7	592.36	2.76	12.76	3.65	---	---	588.71	3.65
	07/09/14	592.7	592.36	2.76	12.76	2.73	---	---	589.63	2.73
	07/31/14	592.7	592.36	2.76	12.76	3.41	---	---	588.95	3.41
	09/16/14	592.7	592.36	2.76	12.76	3.48	---	---	588.88	3.48
	03/24/15	592.7	592.36	2.76	12.76	4.12	---	---	588.24	4.12
	06/17/15	592.7	592.36	2.76	12.76	3.17	---	---	589.19	3.17
	09/09/15	592.7	592.36	2.76	12.76	3.17	---	---	589.19	3.17
	03/15/16	592.7	592.36	2.76	12.76	3.11	---	---	589.25	3.11
	06/17/16	592.7	592.36	2.76	12.76	2.53	---	---	589.83	2.53
	09/22/16	592.7	592.36	2.76	12.76	3.72	---	---	588.64	3.72
	09/27/16	ABANDONED								

Table 2

Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QPTW-13R	09/06/17	594.8	594.04	4	14	4.83	---	---	589.21	4.83
	11/27/17	594.8	594.04	4	14	4.61	---	---	589.43	4.61
QP-1	06/24/10	---	---	5	15	9.65	9.51	0.14	---	9.53
	07/22/10	---	---	5	15	12.22	12.14	0.08	---	12.15
	08/06/10	---	---	5	15	4.40	4.21	0.19	---	4.23
	08/13/10	---	---	5	15	1.63	1.56	0.07	---	1.57
	08/27/10	---	---	5	15	9.79	---	---	---	9.79
	09/17/10	---	---	5	15	8.64	---	---	---	8.64
	09/23/10	---	---	5	15	8.45	---	---	---	8.45
	10/15/10	---	---	5	15	8.91	---	---	---	8.91
	10/29/10	---	---	5	15	8.85	---	---	---	8.85
	12/07/10	---	---	5	15	9.22	---	---	---	9.22
	01/03/11	---	---	5	15	8.73	---	---	---	8.73
	03/18/11	---	---	5	15	8.83	---	---	---	8.83
	04/08/11	---	---	5	15	8.26	---	---	---	8.26
	05/09/11	---	---	5	15	8.19	---	---	---	8.19
	06/09/11	---	---	5	15	7.72	---	---	---	7.72
	07/05/11	---	---	5	15	8.54	---	---	---	8.54
	08/23/11	---	---	5	15	7.47	---	---	---	7.47
	10/14/11	---	---	5	15	8.82	---	---	---	8.82
	11/23/11	---	---	5	15	8.21	---	---	---	8.21
	01/24/12	---	---	5	15	6.58	---	---	---	6.58
	03/20/12	---	---	5	15	7.63	---	---	---	7.63
	04/23/12	---	---	5	15	7.15	---	---	---	7.15
	06/11/12	---	---	5	15	7.91	---	---	---	7.91
	07/10/12	---	---	5	15	8.54	---	---	---	8.54
	08/29/12	---	---	5	15	7.91	---	---	---	7.91
	09/12/12	---	---	5	15	7.66	---	---	---	7.66
	10/01/12	---	---	5	15	8.47	---	---	---	8.47
	11/06/12	---	---	5	15	7.66	---	---	---	7.66
	12/05/12	---	---	5	15	7.68	---	---	---	7.68
	04/03/13	---	---	5	15	7.93	---	---	---	7.93
	07/18/13	---	---	5	15	7.37	---	---	---	7.37
	09/23/13	---	---	5	15	8.55	---	---	---	8.55
	04/25/14	---	---	5	15	6.49	---	---	---	6.49
	06/02/14	---	---	5	15	7.17	---	---	---	7.17
	07/09/14	---	---	5	15	6.16	---	---	---	6.16
	07/31/14	---	---	5	15	6.48	---	---	---	6.48
	09/16/14	---	---	5	15	6.94	---	---	---	6.94
	03/24/15	---	---	5	15	7.55	---	---	---	7.55
	06/17/15	---	---	5	15	6.51	---	---	---	6.51
	09/09/15	---	---	5	15	6.12	---	---	---	6.12
	12/04/15	---	---	5	15	8.25	---	---	---	8.25
	03/15/16	---	---	5	15	6.88	---	---	---	6.88
	06/17/16	---	---	5	15	6.12	---	---	---	6.12
	09/22/16	---	---	5	15	7.45	---	---	---	7.45
	09/27/16	ABANDONED	---	---	---	---	---	---	---	---
QP-1R	09/06/17	594.87	594.59	1.5	12	5.20	---	---	589.39	5.20
	11/27/17	594.87	594.59	1.5	12	5.11	---	---	589.48	5.11
QP-2	06/24/10	---	---	5	15	10.27	10.25	0.02	---	10.25
	06/28/10	---	---	5	15	9.49	9.45	0.04	---	9.45
	07/08/10	---	---	5	15	8.57	8.48	0.09	---	8.49
	07/22/10	---	---	5	15	8.31	8.22	0.09	---	8.23
	07/29/10	---	---	5	15	8.55	8.46	0.09	---	8.47
	08/06/10	---	---	5	15	8.88	8.74	0.14	---	8.76
	08/13/10	---	---	5	15	6.70	6.61	0.09	---	6.62
	08/27/10	---	---	5	15	7.76	7.66	0.10	---	7.67
	09/17/10	---	---	5	15	7.44	7.28	0.16	---	7.30
	09/23/10	---	---	5	15	7.14	6.98	0.16	---	7.00
	10/15/10	---	---	5	15	7.96	7.73	0.23	---	7.76
	10/29/10	---	---	5	15	7.74	7.48	0.26	---	7.51
	12/07/10	---	---	5	15	7.71	7.40	0.31	---	7.44
	01/03/11	---	---	5	15	7.62	7.31	0.31	---	7.35
	03/18/11	---	---	5	15	7.51	7.25	0.26	---	7.28
	04/08/11	---	---	5	15	7.03	6.73	0.30	---	6.77
	05/09/11	---	---	5	15	6.97	6.61	0.36	---	6.65
	06/09/11	---	---	5	15	7.36	6.93	0.43	---	6.98
	07/05/11	---	---	5	15	7.45	6.92	0.53	---	6.98
	08/23/11	---	---	5	15	7.13	6.42	0.71	---	6.51
	10/14/11	---	---	5	15	8.31	7.34	0.97	---	7.46
	11/23/11	---	---	5	15	7.99	7.07	0.92	---	7.18
	01/24/12	---	---	5	15	6.79	5.81	0.98	---	5.93
	03/20/12	---	---	5	15	7.25	6.29	0.96	---	6.41
	04/23/12	---	---	5	15	7.21	6.18	1.03	---	6.30
	06/11/12	---	---	5	15	7.20	6.48	0.72	---	6.57
	07/10/12	---	---	5	15	8.43	7.04	1.39	---	7.21
	08/29/12	---	---	5	15	8.00	6.44	1.56	---	6.63
	09/12/12	---	---	5	15	7.75	6.17	1.58	---	6.36
	10/01/12	---	---	5	15	8.66	6.81	1.85	---	7.03
	11/06/12	---	---	5	15	7.02	6.29	0.73	---	6.38
	12/05/12	---	---	5	15	7.59	6.86	0.73	---	6.95
	04/03/13	---	---	5	15	7.12	6.40	0.72	---	6.49
	07/18/13	---	---	5	15	6.91	5.86	1.05	---	5.99
	09/23/13	---	---	5	15	7.73	6.95	0.78	---	7.04
	04/25/14	---	---	5	15	5.86	5.40	0.46	---	5.46
	06/02/14	---	---	5	15	6.24	5.74	0.50	---	5.80
	07/09/14	---	---	5	15	5.86	5.29	0.57	---	5.36
	07/31/14	---	---	5	15	6.16	5.55	0.61	---	5.62
	09/16/14	---	---	5	15	5.93	5.76	0.17	---	5.78
	03/24/15	---	---	5	15	6.51	6.30	0.21	---	6.33
	06/17/15	---	---	5	15	5.79	5.53	0.26	---	5.56
	09/09/15	---	---	5	15	5.71	5.36	0.35	---	5.40
	12/04/15	---	---	5	15	7.35	6.88	0.47	---	6.94
	03/15/16	---	---	5	15	5.77	5.51	0.26	---	5.54
	06/17/16	---	---	5	15	5.53	5.22	0.31	---	5.26
	09/22/16	---	---	5	15	6.38	5.99	0.39	---	6.04
	09/27/16	ABANDONED	---	---	---	---	---	---	---	---

Table 2

**Summary of Groundwater Gauging Data - Quench Pit Area
RACER Trust - Saginaw Malleable Iron Industrial Land
Saginaw, Michigan**

Well ID	Date	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft btoc)	Total Depth (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	LNAPL Thickness (ft)	Corrected Groundwater Elevation ¹ (ft amsl)	Corrected Water Table Depth ¹ (ft btoc)
QP-2R	09/06/17	594.81	594.22	2	12	4.29	4.27	0.02	589.95	4.27
	11/27/17	594.81	594.22	2	12	4.36	4.35	0.01	589.87	4.35
QP-3	06/24/10	---	---	5	15	17.53	16.80	0.73	---	16.89
	06/28/10	---	---	5	15	12.56	12.53	0.03	---	12.53
	07/08/10	---	---	5	15	12.37	12.32	0.05	---	12.33
	07/29/10	---	---	5	15	12.47	12.35	0.12	---	12.36
	08/06/10	---	---	5	15	12.89	12.81	0.08	---	12.82
	08/13/10	---	---	5	15	11.69	11.62	0.07	---	11.63
	08/27/10	---	---	5	15	11.78	11.71	0.07	---	11.72
	09/17/10	---	---	5	15	11.78	11.69	0.09	---	11.70
	09/23/10	---	---	5	15	11.55	11.41	0.14	---	11.43
	10/15/10	---	---	5	15	8.19	8.03	0.16	---	8.05
	10/29/10	---	---	5	15	8.27	8.09	0.18	---	8.11
	12/07/10	---	---	5	15	7.92	7.82	0.10	---	7.83
	01/03/11	---	---	5	15	7.70	7.57	0.13	---	7.59
	03/18/11	---	---	5	15	7.69	7.59	0.10	---	7.60
	04/08/11	---	---	5	15	6.78	6.72	0.06	---	6.73
	05/09/11	---	---	5	15	7.08	7.02	0.06	---	7.03
	06/09/11	---	---	5	15	7.33	7.25	0.08	---	7.26
	07/05/11	---	---	5	15	7.26	7.18	0.08	---	7.19
	08/23/11	---	---	5	15	6.41	6.37	0.04	---	6.37
	10/14/11	---	---	5	15	7.44	7.35	0.09	---	7.36
	11/23/11	---	---	5	15	7.06	7.00	0.06	---	7.01
	01/24/12	---	---	5	15	5.63	5.60	0.03	---	5.60
	03/20/12	---	---	5	15	6.25	6.22	0.03	---	6.22
	04/23/12	---	---	5	15	6.02	6.00	0.02	---	6.00
	06/11/12	---	---	5	15	6.55	6.51	0.04	---	6.51
	07/10/12	---	---	5	15	7.21	7.11	0.10	---	7.12
	08/29/12	---	---	5	15	6.58	6.49	0.09	---	6.50
	09/12/12	---	---	5	15	6.16	6.10	0.06	---	6.11
	10/01/12	---	---	5	15	7.11	7.01	0.10	---	7.02
	11/06/12	---	---	5	15	7.07	7.01	0.06	---	7.02
	12/05/12	---	---	5	15	6.58	6.55	0.03	---	6.55
	04/03/13	---	---	5	15	6.57	6.54	0.03	---	6.54
	07/18/13	---	---	5	15	5.98	5.92	0.06	---	5.93
	09/23/13	---	---	5	15	7.01	6.91	0.10	---	6.92
	04/25/14	---	---	5	15	5.41	5.39	0.02	---	5.39
	06/02/14	---	---	5	15	5.74	5.71	0.03	---	5.71
	07/09/14	---	---	5	15	5.17	5.13	0.04	---	5.13
	07/31/14	---	---	5	15	5.25	5.24	0.01	---	5.24
	09/16/14	---	---	5	15	5.47	5.41	0.06	---	5.42
	03/24/15	---	---	5	15	6.36	6.34	0.02	---	6.34
	06/17/15	---	---	5	15	5.20	5.18	0.02	---	5.18
	09/09/15	---	---	5	15	5.12	5.09	0.03	---	5.09
	12/04/15	---	---	5	15	6.40	6.39	0.01	---	6.39
	03/15/16	---	---	5	15	5.40	5.39	0.01	---	5.39
	06/17/16	---	---	5	15	5.13	5.11	0.02	---	5.11
	09/22/16	---	---	5	15	5.72	5.68	0.04	---	5.68
	09/27/16	ABANDONED	---	---	---	---	---	---	---	---
QP-3R	09/06/17	594.8	594.41	2	12	4.17	4.08	0.09	590.32	4.09
	11/27/17	594.8	594.41	2	12	4.15	4.04	0.11	590.36	4.05

NOTES:

LNAPL Light Non-Aqueous Phase Liquid

ft Feet

ft amsl Feet Above Mean Sea Level

ft btoc Feet Below Top of Casing

--- No LNAPL measured

¹

A specific gravity of 0.88 (quench/hydraulic oil) was used to calculate corrected groundwater levels

Table 3A

LNAPL Transmissivity Testing: QPTW-04R
RACER Saginaw Malleable Iron
Saginaw, MI

Day	Time	Elapsed Time (hours)	DTP (ft btor)	DTW (ft btor)	In-Well LNAPL Thickness (in)	Volume Removed (fl oz)	Volume Removed (gal)	LNAPL Recovery Rate - Q _n (gal/day)	25% of Recovery Rate (gal/day)	Recovery Rate Difference (gal/day)	LNAPL Drawdown - S _n (feet)	LNAPL Recovery Rate - Q _n (ft ³ /day)
9/19/2017	9:45	0:00	4.98	5.80	9.84	16.00	0.13					
9/19/2017	9:55	0:10	5.05	5.15	1.20	2.00	0.02	2.3			0.07	0.30
9/19/2017	10:05	0:20	5.06	5.12	0.72						0.08	
9/19/2017	10:10	0:25	5.06	5.13	0.84						0.08	
9/19/2017	10:15	0:30	5.06	5.13	0.84						0.08	
9/19/2017	10:25	0:40	5.05	5.14	1.08	1.50	0.01	0.6	0.14		0.07	0.08
9/19/2017	10:35	0:50	5.06	5.11	0.60						0.08	
9/19/2017	10:45	1:00	5.06	5.13	0.84						0.08	
9/19/2017	10:55	1:10	5.06	5.13	0.84						0.08	
9/19/2017	11:05	1:20	5.05	5.13	0.96						0.07	
9/19/2017	11:15	1:30	5.05	5.13	0.96						0.07	
9/19/2017	11:25	1:40	5.05	5.13	0.96						0.07	
9/19/2017	11:40	1:55	5.05	5.14	1.08						0.07	
9/19/2017	11:55	2:10	5.06	5.14	0.96						0.08	
9/19/2017	12:10	2:25	5.05	5.14	1.08	1.50	0.01	0.2	0.04	0.10	0.07	0.02
9/19/2017	12:25	2:40	5.06	5.11	0.60						0.08	
9/19/2017	12:40	2:55	5.06	5.12	0.72						0.08	
9/19/2017	13:10	3:25	5.06	5.12	0.72						0.08	
9/19/2017	13:40	3:55	5.06	5.13	0.84						0.08	
9/19/2017	14:10	4:25	5.05	5.13	0.96						0.07	
9/19/2017	14:40	4:55	5.06	5.14	0.96						0.08	
9/19/2017	15:10	5:25	5.06	5.14	0.96						0.08	
9/19/2017	15:40	5:55	5.06	5.14	0.96						0.08	
Inputs											0.08	0.02
LNAPL Transmissivity - T _n (ft ² /day)											0.21	

Table 3B

**LNAPL Transmittivity Testing: QPTW-05R
RACER Saginaw Malleable Iron
Saginaw, MI**

Day	Time	Elapsed Time (hours)	DTP (ft btor)	DTW (ft btor)	In-Well LNAPL Thickness (in)	Volume Removed (fl oz)	Volume Removed (gal)	LNAPL Recovery Rate - Q_n (gal/day)	25% of Recovery Rate (gal/day)	Recovery Rate Difference (gal/day)	LNAPL Drawdown - S_n (feet)	LNAPL Recovery Rate - Q_n (ft ³ /day)
9/19/2017	8:15	0:00	5.23	5.76	6.36	12.00	0.09					
9/19/2017	8:20	0:05	5.27	5.40	1.56	4.00	0.03	9.0			0.04	1.20
9/19/2017	8:25	0:10	5.29	5.35	0.72						0.06	
9/19/2017	8:30	0:15	5.28	5.35	0.84						0.05	
9/19/2017	8:35	0:20	5.27	5.35	0.96						0.04	
9/19/2017	8:40	0:25	5.27	5.35	0.96						0.04	
9/19/2017	8:50	0:35	5.27	5.35	0.96	1.50	0.01	0.6	0.1		0.04	0.08
9/19/2017	8:55	0:40	5.28	5.31	0.36						0.05	
9/19/2017	9:00	0:45	5.28	5.32	0.48						0.05	
9/19/2017	9:10	0:55	5.28	5.32	0.48						0.05	
9/19/2017	9:40	1:25	5.28	5.32	0.48						0.05	
9/19/2017	10:00	1:45	5.28	5.32	0.48						0.05	
9/19/2017	10:20	2:05	5.28	5.32	0.48						0.05	
9/19/2017	10:50	2:35	5.28	5.32	0.48						0.05	
9/19/2017	11:20	3:05	5.28	5.32	0.48						0.05	
9/19/2017	11:50	3:35	5.28	5.32	0.48						0.05	
9/19/2017	12:30	4:15	5.28	5.32	0.48						0.05	
9/19/2017	13:15	5:00	5.28	5.32	0.48						0.05	
9/19/2017	14:00	5:45	5.28	5.32	0.48						0.05	
9/19/2017	14:45	6:30	5.28	5.33	0.60						0.05	
9/19/2017	15:30	7:15	5.28	5.33	0.60						0.05	

Inputs **de minimis** **de minimis**

LNAPL Transmissivity - T_n (ft²/day) **de minimis**

ATTACHMENT 3

Green Point Landfill Well Construction Logs, Sampling Parameters,
and Field Parameters



Attachment 3
Monitoring Well Sampling Plan and Construction Summary
Annual Report
RACER Trust
Green Point Landfill
Saginaw, Michigan

Well ID	Screen Interval (ft) ¹	Screened Unit/Zone	Well Construction	Date Installed	TIC ² Elevation (ft) ³
MW-117WT	3 - 13	Water table	2" PVC	5/3/95	582.37
MW-117S1	24.2 - 29.2	Lower Sand	2" PVC	5/3/95	583.70
MW-118WT	1.6 - 11.6	Water table	2" PVC	5/2/95	582.98
MW-118S1	23.5 - 28.5	Lower Sand	2" PVC	5/2/95	583.28
MW-183WT	6-16	Water table	2" PVC	7/24/00	588.77
X-4AR	NA-8.3	Water table	2" PVC	NA	NA
X-4CAUGR	14-19	Upper Sand	2" PVC	7/24/07	NA
X-4D	40-45	Lower Sand	2" PVC	7/23/07	NA
X-9AR	3-13	Water table	2" PVC	6/2/80	586.95
X-9BR	26-31	Upper Sand	2" PVC	6/2/80	586.85
X-9CAUG	20-25	Upper Sand	2" PVC	6/2/80	586.62
X-9D	42.5-47.5	Lower Sand	2" PVC	7/23/07	NA
TWW-1	1.5-6.5	Water table	2" PVC	1/22/97	587.31
TW-242	2 - 7	Water table	2" PVC	7/16/98	NA

Notes:

- 1 Depths are in feet below ground surface (bgs). Note that the screened intervals of the MW-128 and X-1 well clusters have been adjusted due to the addition of riser to the wells during landfill capping.
 - 2 TIC = Top of inner casing.
 - 3 Elevations are in feet above mean sea level (AMSL).
- NA = not applicable/not available.

Constituent & Preservative - Container Description										
Well	TAL Metals (ULF Only) NA - 500mL Poly	TAL Dissolved Metals NA - 500mL Poly	Cyanide NaOH - 125mL Poly	Dissolved Cyanide NaOH - 125mL Poly	TDS NA - 500mL Poly	pH, sulfate, chloride, nitrate, nitrite NA - 500mL Poly	Ammonia nitrogen H ₂ SO ₄ - 500 mL Poly	TCL VOCs HCl - 40mL VOA	Screen interval	QA/QC
MW-117S1 ¹		X	X	X	X	X	X	24.2-29.2		
MW-117WT ¹		X	X	X	X	X	X	3-13		
MW-118S1 ¹		X	X	X	X	X	X	23.5-28.5		
MW-118WT ¹		X	X	X	X	X	X	1.6-11.6		
MW-183WT ^{1,2}	X	X	X	X	X	X	X	6-16		<u>duplicate</u> for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, sulphate, pH, nitrite, nitrate, and TDS; <u>MS/MSD</u> for ammonia nitrogen, total TAL metals, dissolved cyanide, chloride, pH, sulfate, nitrite, nitrate, and TDS
X-10BR ¹		X	X	X	X	X	X	31.3-31.7		abandoned
X-4AR ^{1,2,3}	X	X	X	X	X	X	X	NA-8.3		
X-4CAUGR ^{1,2}	X	X	X	X	X	X	X	14-19		
X-4D ^{1,2}	X	X	X	X	X	X	X	40-45		
X-9AR ^{1,2}	X	X	X	X	X	X	X	3-13		
X-9BR ^{1,2}	X	X	X	X	X	X	X	26-31		
X-9CAUG ^{1,2}	X	X	X	X	X	X	X	20-25		
X-9D ^{1,2}	X	X	X	X	X	X	X	42.5-47.5		<u>MS/MSD</u> for ammonia nitrogen, dissolved cyanide, chloride, pH, sulphate, nitrite, nitrate, and TDS
TWW-1							X	1.5-6.5		<u>duplicate</u> for VOC
TW-242							X	2-7		

Notes:

¹TAL Dissolved Metals plus cyanide, and Indicator Parameters (pH, sulfate, chloride, total dissolved solids, nitrate, nitrite, and ammonia nitrogen).

²Ultra Low Flow sampling refers to the use of a purge and sampling rate of approximately 1 liter per hour, implemented to minimize sample turbidity.

³Monitoring went dry during purging. Well was allowed to recharge and samples collected.

BOLD - ultra low flow

Attachment 3
Field Parameters
RACER Trust
Green Point Landfill
Saginaw, Michigan



Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-117S1	10/01/10	1.243	0.21	-82.5	8.14	13.15	1.3
MW-117S1	09/27/11	1.7	1.26	-82.3	6.89	15.7	0.8
MW-117S1	09/13/12	1.310	. ²	-90.3	6.77	15.61	0.42
MW-117S1	09/24/13	4.123	0.75	-126.0	6.87	11.23	0.4
MW-117S1	09/22/14	1.307	0.58	-50.4	6.45	12.14	4.5
MW-117S1	10/01/15	1.681	0.17	127.91	6.69	13.28	8.03
MW-117S1	09/27/16	0.643	0.89	-34.7	6.56	15.64	7.99
MW-117S1	11/13/17	1.043	0.20	161.4	5.88	10.34	3.58
MW-117WT	10/01/10	8.45	0.11	-90	8.45	16.51	0.9
MW-117WT	09/27/11	9.535	0.68	-103	6.60	13.39	1.1
MW-117WT	09/13/12	10.33	. ²	-77.2	6.23	16.32	0.68
MW-117WT	09/24/13	29.95	0.4	-109.8	6.37	12.72	0.80
MW-117WT	09/23/14	8.05	0.7	-57.8	6.25	12.05	8.60
MW-117WT	10/01/15	9.684	0.4	-97.38	6.55	12.74	5.96
MW-117WT	09/27/16	9.531	0.3	-157.64	6.71	15.85	2.72
MW-118S1 ¹	09/27/11	1.81	1.19	-91.9	7.02	17.6	0.3
MW-118S1	09/13/12	1.803	3.82	-230.3	6.83	15.83	1.03
MW-118S1	09/24/13	4.289	0.72	-95.8	6.36	13.17	0.9
MW-118S1	09/22/14	1.38	0.30	-56	6.35	12.49	9.7
MW-118S1	10/01/15	1.753	0.20	116.27	6.77	12.78	1.4
MW-118S1	09/27/16	0.662	0.94	13.84	6.71	14.3	7.91
MW-118S1	11/13/17	1.303	0.2	4.2	5.94	10.19	7.41
MW-118WT	09/30/10	3.435	0.22	-104.2	7.27	14.89	1.8
MW-118WT	09/27/11	3.261	0.71	-92.8	6.43	17.13	0.3
MW-118WT	09/13/12	2.451	1.37	-201.4	6.74	16.99	0.66
MW-118WT	09/24/13	5.017	0.95	-115.3	6.38	15.17	0.4
MW-118WT	09/22/14	1.521	0.20	-60.4	6.72	12.88	8.2
MW-118WT	10/01/15	1.939	0.36	-126.86	6.99	17.02	1.4
MW-118WT	09/27/16	2.072	0.79	-161.44	6.99	15.74	0.79
MW-118WT	11/13/17	1.654	0.26	-27.8	6.05	11.51	0.87

Attachment 3
Field Parameters
RACER Trust
Green Point Landfill
Saginaw, Michigan



Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-183WT	09/28/10	0.633	0.33	-119.6	7.45	13.01	3.5
MW-183WT	09/28/11	0.814	0.26	-128.1	7.73	13.82	1.2
MW-183WT	09/14/12	0.962	0.25	-207.6	7.11	15.30	0.43
MW-183WT	09/24/13	2.390	0.51	-105.2	6.56	17.12	1.8
MW-183WT	09/22/14	Missing field notes					
MW-183WT	10/01/15	0.750	0.37	-139.06	7.28	13.45	0.9
MW-183WT	09/28/16	1.299	0.20	-125.02	7.23	16.52	0.20
MW-183WT	08/29/17	665	1.09	-91.4	6.94	20.50	1.74
TWW-1	09/29/10	3.924	1.15	-54.7	6.99	15.08	9.1
TWW-1	09/21/11	2.89	3.11	-7.1	6.87	18.42	1.2
TWW-1	09/14/12	2.289	2	19.0	6.87	19.30	0.59
TWW-1	09/24/13	3.004	0.64	-139.6	6.84	17.47	2.27
TWW-1	09/23/14	2.342	0.23	-89.9	6.91	17.35	1.01
TWW-1	10/01/15	2.534	0.49	84.32	6.79	17.82	6.09
TWW-1	09/28/16	2.531	0.34	-156.95	7.06	18.04	1.56
TWW-1	08/30/17	1712	7.70	-52.6	7.22	19.10	8.43
X-4AR	DRY 2010, 2011, 2012, 2013	NA	NA	NA	NA	NA	NA
X-4AR	10/01/15	1.008	8.26	45.81	8	22.09	142.9
X-4AR ³	09/28/16	0.360	2.07	9.63	7.23	17.08	20.11
X-4AR ³	08/29/17	well was pumped dry and sampled upon recharge					
X-4CAUGR	09/28/10	1.03	0.34	-79.8	7.11	12.29	1.1
X-4CAUGR	09/26/11	0.971	1.17	-97.1	6.96	17.25	1.2
X-4CAUGR	09/14/12	1.050	0.19	-293.7	6.93	11.83	0.48
X-4CAUGR	09/24/13	0.783	0.19	-64.1	6.22	13.21	1.49
X-4CAUGR	09/22/14	Missing field notes					
X-4CAUGR	10/01/15	1.225	0.25	-116.75	7.10	13.43	2.29
X-4CAUGR	09/28/16	0.396	0.85	-14.23	6.78	14.88	0.68
X-4CAUGR	08/29/17	910	0.16	-45.2	7.26	25.8	1.89

Attachment 3
Field Parameters
RACER Trust
Green Point Landfill
Saginaw, Michigan



Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
X-4D	09/28/10	4.58	0.53	-146.7	7.41	13.45	1.3
X-4D	09/26/11	4.897	1.67	-105.7	7.62	15.94	0.0
X-4D	09/14/12	4.884	0.50	-208.1	7.20	11.92	0.4
X-4D	09/24/13	3.937	0.23	-36.8	6.40	13.30	1.45
X-4D	09/22/14	Missing field notes					
X-4D	10/01/15	4.561	0.18	110.66	7.19	12.91	4.08
X-4D	09/28/16	4.908	0.22	-151.91	7.35	15.05	0.10
X-4D	08/29/17	4451	0.94	117.2	7.18	24.2	0.38
X-9AR	09/29/10	0.815	0.24	-81.5	7.45	11.44	0.9
X-9AR	09/23/11	1.142	0.38	-114.8	7.09	11.63	0.0
X-9AR	09/12/12	1.056	8.20	-92.7	6.88	14.03	0.45
X-9AR	09/25/13	5.685	0.26	-122.6	6.95	10.54	1.90
X-9AR	09/22/14	Missing field notes					
X-9AR	10/01/15	1.224	0.71	-126.9	6.90	12.1	1.34
X-9AR	09/28/16	0.417	0.66	-56.94	6.63	15.03	1.95
X-9AR	08/29/17	816	0.28	-55.5	7.33	19.7	1.09
X-9BR	09/28/10	1.215	0.10	-93.4	7.09	14.53	0.8
X-9BR	09/23/11	1.41	0.20	-113.8	7.13	11.29	0.0
X-9BR	09/12/12	1.358	0.21	-217.9	6.69	14.02	0.97
X-9BR	09/25/13	6.571	0.24	-146.0	6.98	11.31	1.76
X-9BR	09/22/14	Missing field notes					
X-9BR	10/01/15	1.859	0.36	129.69	6.92	11.49	7.27
X-9BR	09/28/16	2.020	0.08	-168.87	7.19	15.33	2.36
X-9BR	08/29/17	1595.000	1.42	-168.3	7.06	17.3	1.64
X-9CAUG	09/28/10	0.995	0.29	-72.3	6.97	12.45	0.1
X-9CAUG	09/23/11	1.07	0.45	-116.9	7.03	12.79	0.0
X-9CAUG	09/12/12	1.132	1.98	-137.1	6.65	21.04	0.76
X-9CAUG	09/25/13	5.046	0.27	-69.0	6.54	15.64	1.29
X-9CAUG	09/22/14	Missing field notes					
X-9CAUG	10/01/15	1.469	0.27	-156.66	7.12	12.32	4.73
X-9CAUG	09/28/16	0.634	0.60	0.50	6.74	12.24	3.95
X-9CAUG	08/29/17	0.956	0.34	-99.40	7.33	17	1.71

Attachment 3
Field Parameters
RACER Trust
Green Point Landfill
Saginaw, Michigan



Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
X-9D	09/28/10	3.257	0.41	-93.2	7.31	12.54	0.1
X-9D	09/23/11	4.27	0.56	-113.8	7.44	11.73	0.0
X-9D	09/12/12	3.510	_ ²	-83.1	7.13	14.20	0.10
X-9D	09/25/13	19.53	0.17	-113.1	7.08	13.03	1.71
X-9D	09/22/14	Missing field notes					
X-9D	10/01/15	4.496	0.16	89.53	7.24	12.68	6.59
X-9D	09/28/16	4.567	0.12	166.31	7.23	11.2	1.24
X-9D	08/29/17	2.14	0.82	133.4	7.00	17	1.07
X-10BR	09/29/10	2.446	0.20	-101.2	6.69	14.17	1.4
X-10BR	09/22/11	1.692	0.79	-88.1	6.87	13.25	4.8
X-10BR	09/14/12	1.953	_ ²	-91.6	6.59	14.58	0.42
X-10BR	09/24/13	21.55	0.28	-104.5	6.40	14.21	4.89
X-10BR	Well Abandoned						
TW-242	08/30/17	1019.000	0.45	-96.1	7.01	17.1	9.02

Notes:

°C = Celsius.

mg/L = milligrams per liter.

mV = millivolts.

NTUs = Nephelometric Turbidity Units.

SU = Standard Units.

mS/cm = milliSiemens per centimeter.

NA = not applicable/not available.

1. Monitoring well MW-188S1 was sampled on October 10, 2010 but the sampling log was not found.
2. No reading due to faulty dissolved oxygen sensor.
3. Monitoring well purged dry upon sampling. Well was allowed to recharge and then a sample was collected.

ATTACHMENT 4

Laboratory Analytical Reports



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: 240-84403-1

Client Project/Site: RACER Saginaw Plant (GPL)

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Scott Clearwater

Denise Pohl

Authorized for release by:

9/14/2017 12:30:27 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@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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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
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.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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 Plant (GPL)

TestAmerica Job ID: 240-84403-1

Job ID: 240-84403-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: RACER Saginaw Plant (GPL)

Report Number: 240-84403-1

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.

The 9012A Cyanide analysis was performed at TestAmerica Buffalo Laboratory.

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 samples were received on 8/31/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2° C, 2.2° C and 2.4° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TW-242_083017 (240-84403-9), TWW-1_083017 (240-84403-10), DUP-02_083017 (240-84403-11) and TRIP BLANK_083017 (240-84403-12) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/08/2017, 09/12/2017 and 09/13/2017.

Bromomethane failed the recovery criteria high for LCS 240-294160/4. Bromomethane failed the recovery criteria high for LCS 240-294512/4. Refer to the QC report for details.

Samples TWW-1_083017 (240-84403-10)[1.67X] and DUP-02_083017 (240-84403-11)[1.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-294160 recovered outside control limits for the following

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Job ID: 240-84403-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

TW-242_083017 (240-84403-9), TRIP BLANK_083017 (240-84403-12) and (LCS 240-294160/4)

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 240-294512 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported.

TWW-1_083017 (240-84403-10), DUP-02_083017 (240-84403-11) and (LCS 240-294512/4)

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

DISSOLVED METALS (ICPMS)

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6) and MW-183WT_082917 (240-84403-7) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 09/01/2017 and analyzed on 09/08/2017.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 09/01/2017 and analyzed on 09/07/2017 and 09/08/2017.

Barium failed the recovery criteria low for the MS of sample MW-183WT_082917MS (240-84403-7) in batch 240-294116. Barium failed the recovery criteria low for the MSD of sample MW-183WT_082917MSD (240-84403-7) in batch 240-294116.

Refer to the QC report for details.

Sample X-4D_082917 (240-84403-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

TOTAL DISSOLVED SOLIDS

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 09/05/2017.

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

ANIONS

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 09/05/2017 and 09/07/2017.

Samples X-9D_082917 (240-84403-1)[20X], X-9CAUG_082917 (240-84403-2)[5X], X-9BR_082917 (240-84403-3)[5X], X-9AR_082917 (240-84403-4)[5X], X-4D_082917 (240-84403-5)[20X], X-4CAUG_082917 (240-84403-6)[5X], MW-183WT_082917 (240-84403-7)[5X] and DUP-01_082917 (240-84403-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

NITRATE-NITRITE AS NITROGEN

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 09/05/2017.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Job ID: 240-84403-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

DISSOLVED CYANIDE

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for dissolved cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared on 09/04/2017 and 09/05/2017 and analyzed on 09/05/2017.

Cyanide, Dissolved failed the recovery criteria low for the MS of sample MW-183WT_082917MS (240-84403-7) in batch 480-375307. 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.

TOTAL CYANIDE

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6) and MW-183WT_082917 (240-84403-7) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared on 09/04/2017 and analyzed on 09/05/2017.

Cyanide, Total failed the recovery criteria low for the MSD of sample MW-183WT_082917MSD (240-84403-7) in batch 480-375268. Cyanide, Total exceeded the RPD limit. 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.

PH

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 08/31/2017.

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

AMMONIA

Samples X-9D_082917 (240-84403-1), X-9CAUG_082917 (240-84403-2), X-9BR_082917 (240-84403-3), X-9AR_082917 (240-84403-4), X-4D_082917 (240-84403-5), X-4CAUG_082917 (240-84403-6), MW-183WT_082917 (240-84403-7) and DUP-01_082917 (240-84403-8) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 09/06/2017.

Samples X-9BR_082917 (240-84403-3)[5X] and X-4D_082917 (240-84403-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CAN
4500 H+ B-2000	pH	SM	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 4500 NH3 D	Ammonia	SM	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-84403-1	X-9D_082917	Water	08/29/17 08:35	08/31/17 09:00
240-84403-2	X-9CAUG_082917	Water	08/29/17 08:50	08/31/17 09:00
240-84403-3	X-9BR_082917	Water	08/29/17 11:05	08/31/17 09:00
240-84403-4	X-9AR_082917	Water	08/29/17 11:35	08/31/17 09:00
240-84403-5	X-4D_082917	Water	08/29/17 14:00	08/31/17 09:00
240-84403-6	X-4CAUG_082917	Water	08/29/17 15:05	08/31/17 09:00
240-84403-7	MW-183WT_082917	Water	08/29/17 17:00	08/31/17 09:00
240-84403-8	DUP-01_082917	Water	08/29/17 00:00	08/31/17 09:00
240-84403-9	TW-242_083017	Water	08/30/17 09:00	08/31/17 09:00
240-84403-10	TWW-1_083017	Water	08/30/17 10:10	08/31/17 09:00
240-84403-11	DUP-02_083017	Water	08/30/17 00:00	08/31/17 09:00
240-84403-12	TRIP BLANK_083017	Water	08/30/17 00:00	08/31/17 09:00

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9D_082917

Lab Sample ID: 240-84403-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	1.2	J	2.0	0.75	ug/L	1			6020	Total
Barium	54		5.0	2.2	ug/L	1			6020	Recoverable
Manganese	75		2.0	2.1	ug/L	1			6020	Total
Sodium	330000		1000	330	ug/L	1			6020	Recoverable
Arsenic	0.76	J	2.0	0.75	ug/L	1			6020	Total
Barium	74		5.0	2.2	ug/L	1			6020	Recoverable
Manganese	130		2.0	2.1	ug/L	1			6020	Total
Sodium	1500000		5000	1600	ug/L	5			6020	Recoverable
Chloride	1100		20	5.7	mg/L	20			300.0	Dissolved
Sulfate	230		20	7.0	mg/L	20			300.0	Total/NA
Nitrate Nitrite as N	1.7		0.050	0.031	mg/L	1			353.2	Total/NA
pH	7.4	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	2300		40	31	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	3.2		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: X-9CAUG_082917

Lab Sample ID: 240-84403-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	220		5.0	2.2	ug/L	1			6020	Total
Iron	12000		50	47	ug/L	1			6020	Recoverable
Manganese	530		2.0	2.1	ug/L	1			6020	Total
Sodium	42000		1000	330	ug/L	1			6020	Recoverable
Barium	230		5.0	2.2	ug/L	1			6020	Total
Iron	12000		50	47	ug/L	1			6020	Recoverable
Manganese	570		2.0	2.1	ug/L	1			6020	Total
Sodium	42000		1000	330	ug/L	1			6020	Recoverable
Chloride	39		5.0	1.4	mg/L	5			300.0	Dissolved
pH	7.1	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	570		10	7.8	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	3.4		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: X-9BR_082917

Lab Sample ID: 240-84403-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.1		2.0	0.75	ug/L	1			6020	Total
Barium	170		5.0	2.2	ug/L	1			6020	Recoverable
Iron	8700		50	47	ug/L	1			6020	Total
Manganese	520		2.0	2.1	ug/L	1			6020	Recoverable
Sodium	250000		1000	330	ug/L	1			6020	Total
Arsenic	2.1		2.0	0.75	ug/L	1			6020	Recoverable
Barium	170		5.0	2.2	ug/L	1			6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9BR_082917 (Continued)

Lab Sample ID: 240-84403-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	8600		50	47	ug/L	1			6020	Dissolved
Manganese	520		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	250000		1000	330	ug/L	1			6020	Dissolved
Chloride	290		5.0	1.4	mg/L	5			300.0	Total/NA
pH	7.2	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	990		20	16	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	12		1.0	0.47	mg/L	5			SM 4500 NH3 D	Total/NA

Client Sample ID: X-9AR_082917

Lab Sample ID: 240-84403-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.4		2.0	0.75	ug/L	1			6020	Total Recoverable
Barium	56		5.0	2.2	ug/L	1			6020	Total Recoverable
Iron	2900		50	47	ug/L	1			6020	Total Recoverable
Manganese	1300		2.0	2.1	ug/L	1			6020	Total Recoverable
Sodium	11000		1000	330	ug/L	1			6020	Total Recoverable
Arsenic	2.4		2.0	0.75	ug/L	1			6020	Dissolved
Barium	53		5.0	2.2	ug/L	1			6020	Dissolved
Iron	2300		50	47	ug/L	1			6020	Dissolved
Manganese	1400		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	11000		1000	330	ug/L	1			6020	Dissolved
Chloride	17		5.0	1.4	mg/L	5			300.0	Total/NA
pH	7.1	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	460		10	7.8	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	0.54		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: X-4D_082917

Lab Sample ID: 240-84403-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	83		5.0	2.2	ug/L	1			6020	Total Recoverable
Manganese	190		2.0	2.1	ug/L	1			6020	Total Recoverable
Sodium	1600000		5000	1600	ug/L	5			6020	Total Recoverable
Barium	84		5.0	2.2	ug/L	1			6020	Dissolved
Manganese	180		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	1600000		5000	1600	ug/L	5			6020	Dissolved
Chloride	1300		20	5.7	mg/L	20			300.0	Total/NA
Sulfate	180		20	7.0	mg/L	20			300.0	Total/NA
Nitrate Nitrite as N	0.36		0.050	0.031	mg/L	1			353.2	Total/NA
pH	7.3	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	2300		40	31	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	6.8		1.0	0.47	mg/L	5			SM 4500 NH3 D	Total/NA

Client Sample ID: X-4CAUG_082917

Lab Sample ID: 240-84403-6

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-4CAUG_082917 (Continued)

Lab Sample ID: 240-84403-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.84	J	2.0	0.75	ug/L	1			6020	Total Recoverable
Barium	110		5.0	2.2	ug/L	1			6020	Total Recoverable
Iron	4800		50	47	ug/L	1			6020	Total Recoverable
Manganese	420		2.0	2.1	ug/L	1			6020	Total Recoverable
Sodium	9200		1000	330	ug/L	1			6020	Total Recoverable
Arsenic	0.84	J	2.0	0.75	ug/L	1			6020	Dissolved
Barium	110		5.0	2.2	ug/L	1			6020	Dissolved
Iron	4700		50	47	ug/L	1			6020	Dissolved
Manganese	450		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	10000		1000	330	ug/L	1			6020	Dissolved
Chloride	6.5		5.0	1.4	mg/L	5			300.0	Total/NA
pH	7.0	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	490		10	7.8	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	0.99		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-183WT_082917

Lab Sample ID: 240-84403-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	5.8		2.0	0.75	ug/L	1			6020	Total Recoverable
Barium	50	F1	5.0	2.2	ug/L	1			6020	Total Recoverable
Iron	4200		50	47	ug/L	1			6020	Total Recoverable
Manganese	1700		2.0	2.1	ug/L	1			6020	Total Recoverable
Sodium	38000		1000	330	ug/L	1			6020	Total Recoverable
Arsenic	4.8		2.0	0.75	ug/L	1			6020	Dissolved
Barium	45		5.0	2.2	ug/L	1			6020	Dissolved
Iron	3800		50	47	ug/L	1			6020	Dissolved
Manganese	1500		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	37000		1000	330	ug/L	1			6020	Dissolved
Chloride	21		5.0	1.4	mg/L	5			300.0	Total/NA
Sulfate	3.1		1.0	0.35	mg/L	1			300.0	Total/NA
pH	7.1	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	390		10	7.8	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	0.35		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: DUP-01_082917

Lab Sample ID: 240-84403-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	4.6		2.0	0.75	ug/L	1			6020	Total Recoverable
Barium	41		5.0	2.2	ug/L	1			6020	Total Recoverable
Iron	3600		50	47	ug/L	1			6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: DUP-01_082917 (Continued)

Lab Sample ID: 240-84403-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	1300		2.0	2.1	ug/L	1			6020	Total Recoverable
Sodium	35000		1000	330	ug/L	1			6020	Total Recoverable
Chloride	21		5.0	1.4	mg/L	5			300.0	Total/NA
Sulfate	3.2		1.0	0.35	mg/L	1			300.0	Total/NA
pH	7.1	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	390		10	7.8	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	0.49		0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: TW-242_083017

Lab Sample ID: 240-84403-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.33	J	1.0	0.25	ug/L	1			8260B	Total/NA
cis-1,2-Dichloroethene	0.31	J	1.0	0.30	ug/L	1			8260B	Total/NA

Client Sample ID: TWW-1_083017

Lab Sample ID: 240-84403-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4	J	1.7	0.42	ug/L	1.67			8260B	Total/NA
Vinyl chloride	43		1.7	0.75	ug/L	1.67			8260B	Total/NA
cis-1,2-Dichloroethene	2.8		1.7	0.50	ug/L	1.67			8260B	Total/NA
1,2,4-Trichlorobenzene	1.1	J	1.7	0.45	ug/L	1.67			8260B	Total/NA

Client Sample ID: DUP-02_083017

Lab Sample ID: 240-84403-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4	J	1.7	0.42	ug/L	1.67			8260B	Total/NA
Vinyl chloride	45		1.7	0.75	ug/L	1.67			8260B	Total/NA
cis-1,2-Dichloroethene	2.7		1.7	0.50	ug/L	1.67			8260B	Total/NA

Client Sample ID: TRIP BLANK_083017

Lab Sample ID: 240-84403-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9D_082917

Lab Sample ID: 240-84403-1

Date Collected: 08/29/17 08:35

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	J	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 00:38	1
Barium	54		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 00:38	1
Iron	50	U	50	47	ug/L		09/01/17 14:00	09/08/17 00:38	1
Manganese	75		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 00:38	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 00:38	1
Sodium	330000		1000	330	ug/L		09/01/17 14:00	09/08/17 00:38	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.76	J	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 01:56	1
Barium	74		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 01:56	1
Iron	50	U	50	47	ug/L		09/01/17 14:00	09/08/17 01:56	1
Manganese	130		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 01:56	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 01:56	1
Sodium	1500000		5000	1600	ug/L		09/01/17 14:00	09/08/17 14:06	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		20	5.7	mg/L			09/05/17 15:56	20
Sulfate	230		20	7.0	mg/L			09/05/17 15:56	20
Nitrate Nitrite as N	1.7		0.050	0.031	mg/L			09/05/17 15:55	1
pH	7.4	HF	0.1	0.1	SU			08/31/17 13:46	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 12:59	1
Total Dissolved Solids	2300		40	31	mg/L			09/05/17 14:18	1
Ammonia (as N)	3.2		0.20	0.093	mg/L			09/06/17 17:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:18	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9CAUG_082917

Lab Sample ID: 240-84403-2

Date Collected: 08/29/17 08:50

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 00:44	1
Barium	220		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 00:44	1
Iron	12000		50	47	ug/L		09/01/17 14:00	09/08/17 00:44	1
Manganese	530		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 00:44	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 00:44	1
Sodium	42000		1000	330	ug/L		09/01/17 14:00	09/08/17 00:44	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 02:03	1
Barium	230		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 02:03	1
Iron	12000		50	47	ug/L		09/01/17 14:00	09/08/17 02:03	1
Manganese	570		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 02:03	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 02:03	1
Sodium	42000		1000	330	ug/L		09/01/17 14:00	09/08/17 02:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		5.0	1.4	mg/L			09/05/17 16:17	5
Sulfate	1.0	U	1.0	0.35	mg/L			09/07/17 03:30	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 15:56	1
pH	7.1	HF	0.1	0.1	SU			08/31/17 13:50	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:01	1
Total Dissolved Solids	570		10	7.8	mg/L			09/05/17 14:18	1
Ammonia (as N)	3.4		0.20	0.093	mg/L			09/06/17 17:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:19	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9BR_082917

Lab Sample ID: 240-84403-3

Date Collected: 08/29/17 11:05

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 00:51	1
Barium	170		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 00:51	1
Iron	8700		50	47	ug/L		09/01/17 14:00	09/08/17 00:51	1
Manganese	520		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 00:51	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 00:51	1
Sodium	250000		1000	330	ug/L		09/01/17 14:00	09/08/17 00:51	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 02:10	1
Barium	170		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 02:10	1
Iron	8600		50	47	ug/L		09/01/17 14:00	09/08/17 02:10	1
Manganese	520		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 02:10	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 02:10	1
Sodium	250000		1000	330	ug/L		09/01/17 14:00	09/08/17 02:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		5.0	1.4	mg/L			09/05/17 16:37	5
Sulfate	1.0	U	1.0	0.35	mg/L			09/07/17 03:50	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 15:58	1
pH	7.2	HF	0.1	0.1	SU			08/31/17 13:54	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:02	1
Total Dissolved Solids	990		20	16	mg/L			09/05/17 14:18	1
Ammonia (as N)	12		1.0	0.47	mg/L			09/06/17 17:55	5

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:21	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9AR_082917

Lab Sample ID: 240-84403-4

Date Collected: 08/29/17 11:35

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 00:57	1
Barium	56		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 00:57	1
Iron	2900		50	47	ug/L		09/01/17 14:00	09/08/17 00:57	1
Manganese	1300		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 00:57	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 00:57	1
Sodium	11000		1000	330	ug/L		09/01/17 14:00	09/08/17 00:57	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 02:16	1
Barium	53		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 02:16	1
Iron	2300		50	47	ug/L		09/01/17 14:00	09/08/17 02:16	1
Manganese	1400		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 02:16	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 02:16	1
Sodium	11000		1000	330	ug/L		09/01/17 14:00	09/08/17 02:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	1.4	mg/L			09/05/17 16:57	5
Sulfate	1.0	U	1.0	0.35	mg/L			09/07/17 04:10	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 15:59	1
pH	7.1	HF	0.1	0.1	SU			08/31/17 13:58	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:05	1
Total Dissolved Solids	460		10	7.8	mg/L			09/05/17 14:18	1
Ammonia (as N)	0.54		0.20	0.093	mg/L			09/06/17 18:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:22	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-4D_082917

Lab Sample ID: 240-84403-5

Date Collected: 08/29/17 14:00

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 01:04	1
Barium	83		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 01:04	1
Iron	50	U	50	47	ug/L		09/01/17 14:00	09/08/17 01:04	1
Manganese	190		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 01:04	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 01:04	1
Sodium	1600000		5000	1600	ug/L		09/01/17 14:00	09/08/17 14:00	5

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 02:23	1
Barium	84		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 02:23	1
Iron	50	U	50	47	ug/L		09/01/17 14:00	09/08/17 02:23	1
Manganese	180		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 02:23	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 02:23	1
Sodium	1600000		5000	1600	ug/L		09/01/17 14:00	09/08/17 14:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		20	5.7	mg/L			09/05/17 17:17	20
Sulfate	180		20	7.0	mg/L			09/05/17 17:17	20
Nitrate Nitrite as N	0.36		0.050	0.031	mg/L			09/05/17 16:00	1
pH	7.3	HF	0.1	0.1	SU			08/31/17 14:01	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:11	1
Total Dissolved Solids	2300		40	31	mg/L			09/05/17 14:18	1
Ammonia (as N)	6.8		1.0	0.47	mg/L			09/06/17 18:25	5

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:24	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-4CAUG_082917

Lab Sample ID: 240-84403-6

Date Collected: 08/29/17 15:05

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.84	J	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 01:10	1
Barium	110		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 01:10	1
Iron	4800		50	47	ug/L		09/01/17 14:00	09/08/17 01:10	1
Manganese	420		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 01:10	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 01:10	1
Sodium	9200		1000	330	ug/L		09/01/17 14:00	09/08/17 01:10	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.84	J	2.0	0.75	ug/L		09/01/17 14:00	09/08/17 02:29	1
Barium	110		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 02:29	1
Iron	4700		50	47	ug/L		09/01/17 14:00	09/08/17 02:29	1
Manganese	450		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 02:29	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 02:29	1
Sodium	10000		1000	330	ug/L		09/01/17 14:00	09/08/17 02:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		5.0	1.4	mg/L			09/05/17 17:37	5
Sulfate	1.0	U	1.0	0.35	mg/L			09/07/17 04:30	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 16:01	1
pH	7.0	HF	0.1	0.1	SU			08/31/17 14:05	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:12	1
Total Dissolved Solids	490		10	7.8	mg/L			09/05/17 14:18	1
Ammonia (as N)	0.99		0.20	0.093	mg/L			09/06/17 18:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/05/17 00:40	09/05/17 15:55	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: MW-183WT_082917

Lab Sample ID: 240-84403-7

Date Collected: 08/29/17 17:00

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		2.0	0.75	ug/L		09/01/17 14:00	09/07/17 23:52	1
Barium	50	F1	5.0	2.2	ug/L		09/01/17 14:00	09/07/17 23:52	1
Iron	4200		50	47	ug/L		09/01/17 14:00	09/07/17 23:52	1
Manganese	1700		2.0	2.1	ug/L		09/01/17 14:00	09/07/17 23:52	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/07/17 23:52	1
Sodium	38000		1000	330	ug/L		09/01/17 14:00	09/07/17 23:52	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 01:37	1
Barium	45		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 01:37	1
Iron	3800		50	47	ug/L		09/01/17 14:00	09/08/17 01:37	1
Manganese	1500		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 01:37	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 01:37	1
Sodium	37000		1000	330	ug/L		09/01/17 14:00	09/08/17 01:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		5.0	1.4	mg/L			09/05/17 17:57	5
Sulfate	3.1		1.0	0.35	mg/L			09/07/17 04:50	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 16:04	1
pH	7.1	HF	0.1	0.1	SU			08/31/17 14:13	1
Cyanide, Total	0.010	U F1 F2	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 13:14	1
Total Dissolved Solids	390		10	7.8	mg/L			09/05/17 14:18	1
Ammonia (as N)	0.35		0.20	0.093	mg/L			09/06/17 14:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U F1	0.010	0.0050	mg/L		09/05/17 00:40	09/05/17 15:57	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: DUP-01_082917

Lab Sample ID: 240-84403-8

Date Collected: 08/29/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		2.0	0.75	ug/L		09/01/17 14:00	09/08/17 01:30	1
Barium	41		5.0	2.2	ug/L		09/01/17 14:00	09/08/17 01:30	1
Iron	3600		50	47	ug/L		09/01/17 14:00	09/08/17 01:30	1
Manganese	1300		2.0	2.1	ug/L		09/01/17 14:00	09/08/17 01:30	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/08/17 01:30	1
Sodium	35000		1000	330	ug/L		09/01/17 14:00	09/08/17 01:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		5.0	1.4	mg/L			09/05/17 19:38	5
Sulfate	3.2		1.0	0.35	mg/L			09/07/17 06:31	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 16:08	1
pH	7.1	HF	0.1	0.1	SU			08/31/17 14:17	1
Total Dissolved Solids	390		10	7.8	mg/L			09/05/17 14:18	1
Ammonia (as N)	0.49		0.20	0.093	mg/L			09/06/17 18:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/05/17 00:40	09/05/17 16:01	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TW-242_083017

Lab Sample ID: 240-84403-9

Date Collected: 08/30/17 09:00

Matrix: Water

Date Received: 08/31/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			09/08/17 18:43	1
Benzene	1.0	U	1.0	0.28	ug/L			09/08/17 18:43	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			09/08/17 18:43	1
Bromoform	1.0	U	1.0	0.43	ug/L			09/08/17 18:43	1
Bromomethane	1.0	U *	1.0	0.42	ug/L			09/08/17 18:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			09/08/17 18:43	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			09/08/17 18:43	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			09/08/17 18:43	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 18:43	1
Chloroethane	1.0	U	1.0	0.41	ug/L			09/08/17 18:43	1
Chloroform	1.0	U	1.0	0.31	ug/L			09/08/17 18:43	1
Chloromethane	1.0	U	1.0	0.43	ug/L			09/08/17 18:43	1
1,1-Dichloroethane	0.33	J	1.0	0.25	ug/L			09/08/17 18:43	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/08/17 18:43	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			09/08/17 18:43	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			09/08/17 18:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			09/08/17 18:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			09/08/17 18:43	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			09/08/17 18:43	1
2-Hexanone	10	U	10	1.2	ug/L			09/08/17 18:43	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			09/08/17 18:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			09/08/17 18:43	1
Styrene	1.0	U	1.0	0.23	ug/L			09/08/17 18:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			09/08/17 18:43	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			09/08/17 18:43	1
Toluene	1.0	U	1.0	0.23	ug/L			09/08/17 18:43	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			09/08/17 18:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			09/08/17 18:43	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			09/08/17 18:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/08/17 18:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			09/08/17 18:43	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			09/08/17 18:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			09/08/17 18:43	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			09/08/17 18:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 18:43	1
cis-1,2-Dichloroethene	0.31	J	1.0	0.30	ug/L			09/08/17 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/08/17 18:43	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			09/08/17 18:43	1
Methyl acetate	10	U	10	1.4	ug/L			09/08/17 18:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			09/08/17 18:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			09/08/17 18:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			09/08/17 18:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			09/08/17 18:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 18:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			09/08/17 18:43	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 18:43	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			09/08/17 18:43	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			09/08/17 18:43	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TW-242_083017

Lab Sample ID: 240-84403-9

Date Collected: 08/30/17 09:00

Matrix: Water

Date Received: 08/31/17 09:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		61 - 138		09/08/17 18:43	1
4-Bromofluorobenzene (Surr)	104		69 - 120		09/08/17 18:43	1
Toluene-d8 (Surr)	103		73 - 120		09/08/17 18:43	1
Dibromofluoromethane (Surr)	95		69 - 124		09/08/17 18:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TWW-1_083017

Lab Sample ID: 240-84403-10

Date Collected: 08/30/17 10:10

Matrix: Water

Date Received: 08/31/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17	U	17	2.9	ug/L			09/12/17 23:43	1.67
Benzene	1.7	U	1.7	0.47	ug/L			09/12/17 23:43	1.67
Dichlorobromomethane	1.7	U	1.7	0.50	ug/L			09/12/17 23:43	1.67
Bromoform	1.7	U	1.7	0.72	ug/L			09/12/17 23:43	1.67
Bromomethane	1.7	U *	1.7	0.70	ug/L			09/12/17 23:43	1.67
2-Butanone (MEK)	17	U	17	1.7	ug/L			09/12/17 23:43	1.67
Carbon disulfide	1.7	U	1.7	0.57	ug/L			09/12/17 23:43	1.67
Carbon tetrachloride	1.7	U	1.7	0.58	ug/L			09/12/17 23:43	1.67
Chlorobenzene	1.7	U	1.7	0.53	ug/L			09/12/17 23:43	1.67
Chloroethane	1.7	U	1.7	0.68	ug/L			09/12/17 23:43	1.67
Chloroform	1.7	U	1.7	0.52	ug/L			09/12/17 23:43	1.67
Chloromethane	1.7	U	1.7	0.72	ug/L			09/12/17 23:43	1.67
1,1-Dichloroethane	1.4	J	1.7	0.42	ug/L			09/12/17 23:43	1.67
1,2-Dichloroethane	1.7	U	1.7	0.50	ug/L			09/12/17 23:43	1.67
1,1-Dichloroethene	1.7	U	1.7	0.45	ug/L			09/12/17 23:43	1.67
1,2-Dichloropropane	1.7	U	1.7	0.50	ug/L			09/12/17 23:43	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.43	ug/L			09/12/17 23:43	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.52	ug/L			09/12/17 23:43	1.67
Ethylbenzene	1.7	U	1.7	0.43	ug/L			09/12/17 23:43	1.67
2-Hexanone	17	U	17	2.1	ug/L			09/12/17 23:43	1.67
Methylene Chloride	1.7	U	1.7	0.89	ug/L			09/12/17 23:43	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.2	ug/L			09/12/17 23:43	1.67
Styrene	1.7	U	1.7	0.38	ug/L			09/12/17 23:43	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.53	ug/L			09/12/17 23:43	1.67
Tetrachloroethene	1.7	U	1.7	0.50	ug/L			09/12/17 23:43	1.67
Toluene	1.7	U	1.7	0.38	ug/L			09/12/17 23:43	1.67
Trichloroethene	1.7	U	1.7	0.55	ug/L			09/12/17 23:43	1.67
Vinyl chloride	43		1.7	0.75	ug/L			09/12/17 23:43	1.67
Xylenes, Total	3.3	U	3.3	0.40	ug/L			09/12/17 23:43	1.67
1,1,1-Trichloroethane	1.7	U	1.7	0.38	ug/L			09/12/17 23:43	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.57	ug/L			09/12/17 23:43	1.67
Cyclohexane	1.7	U	1.7	0.73	ug/L			09/12/17 23:43	1.67
1,2-Dibromo-3-Chloropropane	3.3	U	3.3	0.78	ug/L			09/12/17 23:43	1.67
Ethylene Dibromide	1.7	U	1.7	0.38	ug/L			09/12/17 23:43	1.67
Dichlorodifluoromethane	1.7	U	1.7	0.84	ug/L			09/12/17 23:43	1.67
cis-1,2-Dichloroethene	2.8		1.7	0.50	ug/L			09/12/17 23:43	1.67
trans-1,2-Dichloroethene	1.7	U	1.7	0.48	ug/L			09/12/17 23:43	1.67
Isopropylbenzene	1.7	U	1.7	0.35	ug/L			09/12/17 23:43	1.67
Methyl acetate	17	U	17	2.4	ug/L			09/12/17 23:43	1.67
Methyl tert-butyl ether	1.7	U	1.7	0.45	ug/L			09/12/17 23:43	1.67
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U	1.7	0.68	ug/L			09/12/17 23:43	1.67
1,2,4-Trichlorobenzene	1.1	J	1.7	0.45	ug/L			09/12/17 23:43	1.67
1,2-Dichlorobenzene	1.7	U	1.7	0.43	ug/L			09/12/17 23:43	1.67
1,3-Dichlorobenzene	1.7	U	1.7	0.53	ug/L			09/12/17 23:43	1.67
1,4-Dichlorobenzene	1.7	U	1.7	0.38	ug/L			09/12/17 23:43	1.67
Trichlorofluoromethane	1.7	U	1.7	0.84	ug/L			09/12/17 23:43	1.67
Chlorodibromomethane	1.7	U	1.7	0.42	ug/L			09/12/17 23:43	1.67
Methylcyclohexane	1.7	U	1.7	0.75	ug/L			09/12/17 23:43	1.67

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TWW-1_083017

Lab Sample ID: 240-84403-10

Date Collected: 08/30/17 10:10

Matrix: Water

Date Received: 08/31/17 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 138		09/12/17 23:43	1.67
4-Bromofluorobenzene (Surr)	107		69 - 120		09/12/17 23:43	1.67
Toluene-d8 (Surr)	101		73 - 120		09/12/17 23:43	1.67
Dibromofluoromethane (Surr)	94		69 - 124		09/12/17 23:43	1.67

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: DUP-02_083017

Lab Sample ID: 240-84403-11

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17	U	17	2.9	ug/L			09/13/17 00:06	1.67
Benzene	1.7	U	1.7	0.47	ug/L			09/13/17 00:06	1.67
Dichlorobromomethane	1.7	U	1.7	0.50	ug/L			09/13/17 00:06	1.67
Bromoform	1.7	U	1.7	0.72	ug/L			09/13/17 00:06	1.67
Bromomethane	1.7	U *	1.7	0.70	ug/L			09/13/17 00:06	1.67
2-Butanone (MEK)	17	U	17	1.7	ug/L			09/13/17 00:06	1.67
Carbon disulfide	1.7	U	1.7	0.57	ug/L			09/13/17 00:06	1.67
Carbon tetrachloride	1.7	U	1.7	0.58	ug/L			09/13/17 00:06	1.67
Chlorobenzene	1.7	U	1.7	0.53	ug/L			09/13/17 00:06	1.67
Chloroethane	1.7	U	1.7	0.68	ug/L			09/13/17 00:06	1.67
Chloroform	1.7	U	1.7	0.52	ug/L			09/13/17 00:06	1.67
Chloromethane	1.7	U	1.7	0.72	ug/L			09/13/17 00:06	1.67
1,1-Dichloroethane	1.4	J	1.7	0.42	ug/L			09/13/17 00:06	1.67
1,2-Dichloroethane	1.7	U	1.7	0.50	ug/L			09/13/17 00:06	1.67
1,1-Dichloroethene	1.7	U	1.7	0.45	ug/L			09/13/17 00:06	1.67
1,2-Dichloropropane	1.7	U	1.7	0.50	ug/L			09/13/17 00:06	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.43	ug/L			09/13/17 00:06	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.52	ug/L			09/13/17 00:06	1.67
Ethylbenzene	1.7	U	1.7	0.43	ug/L			09/13/17 00:06	1.67
2-Hexanone	17	U	17	2.1	ug/L			09/13/17 00:06	1.67
Methylene Chloride	1.7	U	1.7	0.89	ug/L			09/13/17 00:06	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.2	ug/L			09/13/17 00:06	1.67
Styrene	1.7	U	1.7	0.38	ug/L			09/13/17 00:06	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.53	ug/L			09/13/17 00:06	1.67
Tetrachloroethene	1.7	U	1.7	0.50	ug/L			09/13/17 00:06	1.67
Toluene	1.7	U	1.7	0.38	ug/L			09/13/17 00:06	1.67
Trichloroethene	1.7	U	1.7	0.55	ug/L			09/13/17 00:06	1.67
Vinyl chloride	45		1.7	0.75	ug/L			09/13/17 00:06	1.67
Xylenes, Total	3.3	U	3.3	0.40	ug/L			09/13/17 00:06	1.67
1,1,1-Trichloroethane	1.7	U	1.7	0.38	ug/L			09/13/17 00:06	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.57	ug/L			09/13/17 00:06	1.67
Cyclohexane	1.7	U	1.7	0.73	ug/L			09/13/17 00:06	1.67
1,2-Dibromo-3-Chloropropane	3.3	U	3.3	0.78	ug/L			09/13/17 00:06	1.67
Ethylene Dibromide	1.7	U	1.7	0.38	ug/L			09/13/17 00:06	1.67
Dichlorodifluoromethane	1.7	U	1.7	0.84	ug/L			09/13/17 00:06	1.67
cis-1,2-Dichloroethene	2.7		1.7	0.50	ug/L			09/13/17 00:06	1.67
trans-1,2-Dichloroethene	1.7	U	1.7	0.48	ug/L			09/13/17 00:06	1.67
Isopropylbenzene	1.7	U	1.7	0.35	ug/L			09/13/17 00:06	1.67
Methyl acetate	17	U	17	2.4	ug/L			09/13/17 00:06	1.67
Methyl tert-butyl ether	1.7	U	1.7	0.45	ug/L			09/13/17 00:06	1.67
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U	1.7	0.68	ug/L			09/13/17 00:06	1.67
1,2,4-Trichlorobenzene	1.7	U	1.7	0.45	ug/L			09/13/17 00:06	1.67
1,2-Dichlorobenzene	1.7	U	1.7	0.43	ug/L			09/13/17 00:06	1.67
1,3-Dichlorobenzene	1.7	U	1.7	0.53	ug/L			09/13/17 00:06	1.67
1,4-Dichlorobenzene	1.7	U	1.7	0.38	ug/L			09/13/17 00:06	1.67
Trichlorofluoromethane	1.7	U	1.7	0.84	ug/L			09/13/17 00:06	1.67
Chlorodibromomethane	1.7	U	1.7	0.42	ug/L			09/13/17 00:06	1.67
Methylcyclohexane	1.7	U	1.7	0.75	ug/L			09/13/17 00:06	1.67

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: DUP-02_083017

Lab Sample ID: 240-84403-11

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 138		09/13/17 00:06	1.67
4-Bromofluorobenzene (Surr)	109		69 - 120		09/13/17 00:06	1.67
Toluene-d8 (Surr)	101		73 - 120		09/13/17 00:06	1.67
Dibromofluoromethane (Surr)	98		69 - 124		09/13/17 00:06	1.67

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TRIP BLANK_083017

Lab Sample ID: 240-84403-12

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			09/08/17 19:48	1
Benzene	1.0	U	1.0	0.28	ug/L			09/08/17 19:48	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			09/08/17 19:48	1
Bromoform	1.0	U	1.0	0.43	ug/L			09/08/17 19:48	1
Bromomethane	1.0	U *	1.0	0.42	ug/L			09/08/17 19:48	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			09/08/17 19:48	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			09/08/17 19:48	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			09/08/17 19:48	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 19:48	1
Chloroethane	1.0	U	1.0	0.41	ug/L			09/08/17 19:48	1
Chloroform	1.0	U	1.0	0.31	ug/L			09/08/17 19:48	1
Chloromethane	1.0	U	1.0	0.43	ug/L			09/08/17 19:48	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			09/08/17 19:48	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/08/17 19:48	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			09/08/17 19:48	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			09/08/17 19:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			09/08/17 19:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			09/08/17 19:48	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			09/08/17 19:48	1
2-Hexanone	10	U	10	1.2	ug/L			09/08/17 19:48	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			09/08/17 19:48	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			09/08/17 19:48	1
Styrene	1.0	U	1.0	0.23	ug/L			09/08/17 19:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			09/08/17 19:48	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			09/08/17 19:48	1
Toluene	1.0	U	1.0	0.23	ug/L			09/08/17 19:48	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			09/08/17 19:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			09/08/17 19:48	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			09/08/17 19:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/08/17 19:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			09/08/17 19:48	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			09/08/17 19:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			09/08/17 19:48	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			09/08/17 19:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 19:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/08/17 19:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/08/17 19:48	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			09/08/17 19:48	1
Methyl acetate	10	U	10	1.4	ug/L			09/08/17 19:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			09/08/17 19:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			09/08/17 19:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			09/08/17 19:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			09/08/17 19:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 19:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			09/08/17 19:48	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 19:48	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			09/08/17 19:48	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			09/08/17 19:48	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: TRIP BLANK_083017

Lab Sample ID: 240-84403-12

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 138		09/08/17 19:48	1
4-Bromofluorobenzene (Surr)	107		69 - 120		09/08/17 19:48	1
Toluene-d8 (Surr)	99		73 - 120		09/08/17 19:48	1
Dibromofluoromethane (Surr)	97		69 - 124		09/08/17 19:48	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (61-138)	BFB (69-120)	TOL (73-120)	DBFM (69-124)
240-84403-9	TW-242_083017	101	104	103	95
240-84403-10	TWW-1_083017	101	107	101	94
240-84403-11	DUP-02_083017	104	109	101	98
240-84403-12	TRIP BLANK_083017	102	107	99	97
LCS 240-294160/4	Lab Control Sample	101	118	107	90
LCS 240-294512/4	Lab Control Sample	95	111	105	90
MB 240-294160/6	Method Blank	100	104	101	93
MB 240-294512/6	Method Blank	102	110	103	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

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

Lab Sample ID: MB 240-294160/6

Matrix: Water

Analysis Batch: 294160

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			09/08/17 14:26	1
Benzene	1.0	U	1.0	0.28	ug/L			09/08/17 14:26	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			09/08/17 14:26	1
Bromoform	1.0	U	1.0	0.43	ug/L			09/08/17 14:26	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/08/17 14:26	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			09/08/17 14:26	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			09/08/17 14:26	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			09/08/17 14:26	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 14:26	1
Chloroethane	1.0	U	1.0	0.41	ug/L			09/08/17 14:26	1
Chloroform	1.0	U	1.0	0.31	ug/L			09/08/17 14:26	1
Chloromethane	1.0	U	1.0	0.43	ug/L			09/08/17 14:26	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			09/08/17 14:26	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/08/17 14:26	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			09/08/17 14:26	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			09/08/17 14:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			09/08/17 14:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			09/08/17 14:26	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			09/08/17 14:26	1
2-Hexanone	10	U	10	1.2	ug/L			09/08/17 14:26	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			09/08/17 14:26	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			09/08/17 14:26	1
Styrene	1.0	U	1.0	0.23	ug/L			09/08/17 14:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			09/08/17 14:26	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			09/08/17 14:26	1
Toluene	1.0	U	1.0	0.23	ug/L			09/08/17 14:26	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			09/08/17 14:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			09/08/17 14:26	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			09/08/17 14:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/08/17 14:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			09/08/17 14:26	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			09/08/17 14:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			09/08/17 14:26	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			09/08/17 14:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 14:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/08/17 14:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/08/17 14:26	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			09/08/17 14:26	1
Methyl acetate	10	U	10	1.4	ug/L			09/08/17 14:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			09/08/17 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			09/08/17 14:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			09/08/17 14:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			09/08/17 14:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			09/08/17 14:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			09/08/17 14:26	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			09/08/17 14:26	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			09/08/17 14:26	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			09/08/17 14:26	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 138		09/08/17 14:26	1
4-Bromofluorobenzene (Surr)	104		69 - 120		09/08/17 14:26	1
Toluene-d8 (Surr)	101		73 - 120		09/08/17 14:26	1
Dibromofluoromethane (Surr)	93		69 - 124		09/08/17 14:26	1

Lab Sample ID: LCS 240-294160/4

Matrix: Water

Analysis Batch: 294160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.0		ug/L		70	35 - 131
Benzene	10.0	10.5		ug/L		105	79 - 120
Dichlorobromomethane	10.0	10.4		ug/L		104	79 - 125
Bromoform	10.0	8.90		ug/L		89	55 - 145
Bromomethane	10.0	16.4	*	ug/L		164	17 - 158
2-Butanone (MEK)	20.0	18.4		ug/L		92	43 - 149
Carbon disulfide	10.0	11.0		ug/L		110	49 - 141
Carbon tetrachloride	10.0	9.00		ug/L		90	55 - 171
Chlorobenzene	10.0	9.95		ug/L		99	80 - 120
Chloroethane	10.0	11.6		ug/L		116	10 - 149
Chloroform	10.0	9.86		ug/L		99	80 - 120
Chloromethane	10.0	11.8		ug/L		118	59 - 124
1,1-Dichloroethane	10.0	10.9		ug/L		109	74 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 133
1,1-Dichloroethene	10.0	9.25		ug/L		93	65 - 127
1,2-Dichloropropane	10.0	11.8		ug/L		118	78 - 127
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	75 - 120
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	67 - 120
Ethylbenzene	10.0	9.91		ug/L		99	80 - 120
2-Hexanone	20.0	19.7		ug/L		99	28 - 169
Methylene Chloride	10.0	9.90		ug/L		99	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	22.0		ug/L		110	53 - 144
Styrene	10.0	10.4		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	10.0	9.94		ug/L		99	58 - 122
Tetrachloroethene	10.0	8.61		ug/L		86	80 - 122
Toluene	10.0	10.7		ug/L		107	78 - 120
Trichloroethene	10.0	8.55		ug/L		86	76 - 124
Vinyl chloride	10.0	10.4		ug/L		104	65 - 124
Xylenes, Total	20.0	20.3		ug/L		101	80 - 120
1,1,1-Trichloroethane	10.0	9.49		ug/L		95	64 - 147
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	76 - 121
Cyclohexane	10.0	10.6		ug/L		106	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.45		ug/L		84	50 - 130
Ethylene Dibromide	10.0	9.42		ug/L		94	80 - 120
Dichlorodifluoromethane	10.0	8.77		ug/L		88	42 - 141
cis-1,2-Dichloroethene	10.0	9.75		ug/L		98	77 - 120
trans-1,2-Dichloroethene	10.0	9.77		ug/L		98	74 - 124
Isopropylbenzene	10.0	10.2		ug/L		102	80 - 128
Methyl acetate	20.0	22.3		ug/L		111	63 - 137
Methyl tert-butyl ether	10.0	10.2		ug/L		102	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.01		ug/L		90	65 - 144
1,2,4-Trichlorobenzene	10.0	12.0		ug/L		120	34 - 141
1,2-Dichlorobenzene	10.0	9.59		ug/L		96	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

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

Lab Sample ID: LCS 240-294160/4

Matrix: Water

Analysis Batch: 294160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	10.0	9.38		ug/L		94	80 - 120
1,4-Dichlorobenzene	10.0	9.62		ug/L		96	80 - 120
Trichlorofluoromethane	10.0	11.6		ug/L		116	27 - 176
Chlorodibromomethane	10.0	9.02		ug/L		90	64 - 129
Methylcyclohexane	10.0	8.87		ug/L		89	63 - 141
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	80 - 120
o-Xylene	10.0	9.86		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		61 - 138
4-Bromofluorobenzene (Surr)	118		69 - 120
Toluene-d8 (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	90		69 - 124

Lab Sample ID: MB 240-294512/6

Matrix: Water

Analysis Batch: 294512

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			09/12/17 14:52	1
Benzene	1.0	U	1.0	0.28	ug/L			09/12/17 14:52	1
Dichlorobromomethane	1.0	U	1.0	0.30	ug/L			09/12/17 14:52	1
Bromoform	1.0	U	1.0	0.43	ug/L			09/12/17 14:52	1
Bromomethane	1.0	U	1.0	0.42	ug/L			09/12/17 14:52	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			09/12/17 14:52	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			09/12/17 14:52	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			09/12/17 14:52	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			09/12/17 14:52	1
Chloroethane	1.0	U	1.0	0.41	ug/L			09/12/17 14:52	1
Chloroform	1.0	U	1.0	0.31	ug/L			09/12/17 14:52	1
Chloromethane	1.0	U	1.0	0.43	ug/L			09/12/17 14:52	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			09/12/17 14:52	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/12/17 14:52	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			09/12/17 14:52	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			09/12/17 14:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			09/12/17 14:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			09/12/17 14:52	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			09/12/17 14:52	1
2-Hexanone	10	U	10	1.2	ug/L			09/12/17 14:52	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			09/12/17 14:52	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			09/12/17 14:52	1
Styrene	1.0	U	1.0	0.23	ug/L			09/12/17 14:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			09/12/17 14:52	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			09/12/17 14:52	1
Toluene	1.0	U	1.0	0.23	ug/L			09/12/17 14:52	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			09/12/17 14:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			09/12/17 14:52	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			09/12/17 14:52	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

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

Lab Sample ID: MB 240-294512/6

Matrix: Water

Analysis Batch: 294512

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			09/12/17 14:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			09/12/17 14:52	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			09/12/17 14:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			09/12/17 14:52	1
Ethylene Dibromide	1.0	U	1.0	0.23	ug/L			09/12/17 14:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			09/12/17 14:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/12/17 14:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			09/12/17 14:52	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			09/12/17 14:52	1
Methyl acetate	10	U	10	1.4	ug/L			09/12/17 14:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			09/12/17 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			09/12/17 14:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			09/12/17 14:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			09/12/17 14:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			09/12/17 14:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			09/12/17 14:52	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			09/12/17 14:52	1
Chlorodibromomethane	1.0	U	1.0	0.25	ug/L			09/12/17 14:52	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			09/12/17 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 138		09/12/17 14:52	1
4-Bromofluorobenzene (Surr)	110		69 - 120		09/12/17 14:52	1
Toluene-d8 (Surr)	103		73 - 120		09/12/17 14:52	1
Dibromofluoromethane (Surr)	92		69 - 124		09/12/17 14:52	1

Lab Sample ID: LCS 240-294512/4

Matrix: Water

Analysis Batch: 294512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	12.3		ug/L		62	35 - 131
Benzene	10.0	10.8		ug/L		108	79 - 120
Dichlorobromomethane	10.0	10.6		ug/L		106	79 - 125
Bromoform	10.0	8.21		ug/L		82	55 - 145
Bromomethane	10.0	16.0	*	ug/L		160	17 - 158
2-Butanone (MEK)	20.0	18.2		ug/L		91	43 - 149
Carbon disulfide	10.0	11.3		ug/L		113	49 - 141
Carbon tetrachloride	10.0	9.29		ug/L		93	55 - 171
Chlorobenzene	10.0	9.87		ug/L		99	80 - 120
Chloroethane	10.0	11.7		ug/L		117	10 - 149
Chloroform	10.0	9.97		ug/L		100	80 - 120
Chloromethane	10.0	11.6		ug/L		116	59 - 124
1,1-Dichloroethane	10.0	10.8		ug/L		108	74 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 133
1,1-Dichloroethene	10.0	9.39		ug/L		94	65 - 127
1,2-Dichloropropane	10.0	11.9		ug/L		119	78 - 127
cis-1,3-Dichloropropene	10.0	10.9		ug/L		109	75 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

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

Lab Sample ID: LCS 240-294512/4

Matrix: Water

Analysis Batch: 294512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	67 - 120
Ethylbenzene	10.0	9.79		ug/L		98	80 - 120
2-Hexanone	20.0	20.1		ug/L		101	28 - 169
Methylene Chloride	10.0	10.4		ug/L		104	64 - 140
4-Methyl-2-pentanone (MIBK)	20.0	21.1		ug/L		106	53 - 144
Styrene	10.0	10.4		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	58 - 122
Tetrachloroethene	10.0	8.88		ug/L		89	80 - 122
Toluene	10.0	10.6		ug/L		106	78 - 120
Trichloroethene	10.0	8.62		ug/L		86	76 - 124
Vinyl chloride	10.0	10.2		ug/L		102	65 - 124
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120
1,1,1-Trichloroethane	10.0	9.40		ug/L		94	64 - 147
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	76 - 121
Cyclohexane	10.0	10.5		ug/L		105	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	7.89		ug/L		79	50 - 130
Ethylene Dibromide	10.0	9.52		ug/L		95	80 - 120
Dichlorodifluoromethane	10.0	8.83		ug/L		88	42 - 141
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	77 - 120
trans-1,2-Dichloroethene	10.0	9.76		ug/L		98	74 - 124
Isopropylbenzene	10.0	10.2		ug/L		102	80 - 128
Methyl acetate	20.0	22.9		ug/L		114	63 - 137
Methyl tert-butyl ether	10.0	10.1		ug/L		101	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.16		ug/L		92	65 - 144
1,2,4-Trichlorobenzene	10.0	8.96		ug/L		90	34 - 141
1,2-Dichlorobenzene	10.0	9.67		ug/L		97	80 - 120
1,3-Dichlorobenzene	10.0	9.65		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.91		ug/L		99	80 - 120
Trichlorofluoromethane	10.0	11.8		ug/L		118	27 - 176
Chlorodibromomethane	10.0	9.15		ug/L		91	64 - 129
Methylcyclohexane	10.0	8.78		ug/L		88	63 - 141
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	80 - 120
o-Xylene	10.0	10.1		ug/L		101	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		61 - 138
4-Bromofluorobenzene (Surr)	111		69 - 120
Toluene-d8 (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	90		69 - 124

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-293448/1-A

Matrix: Water

Analysis Batch: 294116

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 293448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/01/17 14:00	09/07/17 23:39	1
Barium	5.0	U	5.0	2.2	ug/L		09/01/17 14:00	09/07/17 23:39	1
Iron	50	U	50	47	ug/L		09/01/17 14:00	09/07/17 23:39	1
Manganese	2.0	U	2.0	2.1	ug/L		09/01/17 14:00	09/07/17 23:39	1
Selenium	5.0	U	5.0	0.89	ug/L		09/01/17 14:00	09/07/17 23:39	1
Sodium	1000	U	1000	330	ug/L		09/01/17 14:00	09/07/17 23:39	1

Lab Sample ID: LCS 240-293448/2-A

Matrix: Water

Analysis Batch: 294116

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 293448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1000	1010		ug/L		101	80 - 120
Barium	1000	960		ug/L		96	80 - 120
Iron	10000	9870		ug/L		99	80 - 120
Manganese	1000	1030		ug/L		103	80 - 120
Selenium	1000	983		ug/L		98	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-183WT_082917

Prep Type: Total Recoverable

Prep Batch: 293448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	5.8		1000	1030		ug/L		103	75 - 125
Barium	50	F1	1000	623	F1	ug/L		57	75 - 125
Iron	4200		10000	13800		ug/L		96	75 - 125
Manganese	1700		1000	2500		ug/L		83	75 - 125
Selenium	5.0	U	1000	958		ug/L		96	75 - 125
Sodium	38000		10000	46000		ug/L		81	75 - 125

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-183WT_082917

Prep Type: Total Recoverable

Prep Batch: 293448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	5.8		1000	1010		ug/L		101	75 - 125	2	20
Barium	50	F1	1000	674	F1	ug/L		62	75 - 125	8	20
Iron	4200		10000	13400		ug/L		92	75 - 125	3	20
Manganese	1700		1000	2540		ug/L		87	75 - 125	2	20
Selenium	5.0	U	1000	945		ug/L		95	75 - 125	1	20
Sodium	38000		10000	45600		ug/L		77	75 - 125	1	20

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-183WT_082917

Prep Type: Dissolved

Prep Batch: 293448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	4.8		1000	1030		ug/L		103	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-183WT_082917

Prep Type: Dissolved

Prep Batch: 293448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Barium	45		1000	984		ug/L		94	75 - 125
Iron	3800		10000	13300		ug/L		96	75 - 125
Manganese	1500		1000	2550		ug/L		106	75 - 125
Selenium	5.0	U	1000	968		ug/L		97	75 - 125
Sodium	37000		10000	45600		ug/L		88	75 - 125

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-183WT_082917

Prep Type: Dissolved

Prep Batch: 293448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	4.8		1000	1030		ug/L		102	75 - 125	0	20
Barium	45		1000	975		ug/L		93	75 - 125	1	20
Iron	3800		10000	13300		ug/L		95	75 - 125	0	20
Manganese	1500		1000	2460		ug/L		97	75 - 125	4	20
Selenium	5.0	U	1000	958		ug/L		96	75 - 125	1	20
Sodium	37000		10000	45000		ug/L		82	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-293728/3

Matrix: Water

Analysis Batch: 293728

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			09/05/17 15:16	1
Sulfate	1.0	U	1.0	0.35	mg/L			09/05/17 15:16	1

Lab Sample ID: LCS 240-293728/4

Matrix: Water

Analysis Batch: 293728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	50.0	49.3		mg/L		99	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 293728

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	21		50.0	69.1		mg/L		96	80 - 120

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 293728

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	21		50.0	68.9		mg/L		95	80 - 120	0	15

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-293859/3

Matrix: Water

Analysis Batch: 293859

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.0	0.35	mg/L			09/06/17 21:48	1

Lab Sample ID: LCS 240-293859/4

Matrix: Water

Analysis Batch: 293859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.3		mg/L		105	90 - 110

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 293859

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	3.1		50.0	56.1		mg/L		106	80 - 120

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 293859

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	3.1		50.0	56.9		mg/L		108	80 - 120	1	15

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-293741/4

Matrix: Water

Analysis Batch: 293741

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			09/05/17 15:51	1

Lab Sample ID: LCS 240-293741/5

Matrix: Water

Analysis Batch: 293741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.22	1.26		mg/L		103	90 - 110

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 293741

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.050	U	1.00	1.01		mg/L		101	90 - 110

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 293741

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.050	U	1.00	1.05		mg/L		105	90 - 110	3	20

Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-293294/27

Matrix: Water

Analysis Batch: 293294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	5.79	5.8		SU		100	97 - 103

Lab Sample ID: 240-84403-7 DU

Matrix: Water

Analysis Batch: 293294

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.1	HF	7.1	HF	SU		0.3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-375133/1-A

Matrix: Water

Analysis Batch: 375268

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 375133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 12:54	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		09/04/17 10:30	09/05/17 12:54	1

Lab Sample ID: LCS 480-375133/2-A

Matrix: Water

Analysis Batch: 375268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Dissolved	0.400	0.426		mg/L		107	90 - 110
Cyanide, Total	0.400	0.426		mg/L		107	90 - 110

Lab Sample ID: LCS 480-375133/3-A

Matrix: Water

Analysis Batch: 375268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Dissolved	0.250	0.231		mg/L		92	90 - 110
Cyanide, Total	0.250	0.231		mg/L		92	90 - 110

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-84403-4 MS

Matrix: Water

Analysis Batch: 375268

Client Sample ID: X-9AR_082917

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Dissolved	0.010	U	0.100	0.109		mg/L		109	90 - 110
Cyanide, Total	0.010	U	0.100	0.109		mg/L		109	90 - 110

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 375268

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.010	U F1 F2	0.100	0.110		mg/L		110	90 - 110

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 375268

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.010	U F1 F2	0.100	0.0800	F1 F2	mg/L		80	90 - 110	32	15

Lab Sample ID: 240-84403-3 DU

Matrix: Water

Analysis Batch: 375268

Client Sample ID: X-9BR_082917

Prep Type: Total/NA

Prep Batch: 375133

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Dissolved	0.010	U	0.010	U	mg/L		NC	15
Cyanide, Total	0.010	U	0.010	U	mg/L		NC	15

Lab Sample ID: MB 480-375143/1-A

Matrix: Water

Analysis Batch: 375307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 375143

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		09/05/17 00:40	09/05/17 15:50	1

Lab Sample ID: LCS 480-375143/2-A

Matrix: Water

Analysis Batch: 375307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Dissolved	0.400	0.364		mg/L		91	90 - 110

Lab Sample ID: LCS 480-375143/3-A

Matrix: Water

Analysis Batch: 375307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 375143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Dissolved	0.250	0.224		mg/L		90	90 - 110

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 375307

Client Sample ID: MW-183WT_082917

Prep Type: Dissolved

Prep Batch: 375143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Dissolved	0.010	U F1	0.100	0.0853	F1	mg/L		85	90 - 110

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 375307

Client Sample ID: MW-183WT_082917

Prep Type: Dissolved

Prep Batch: 375143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide, Dissolved	0.010	U F1	0.100	0.0909		mg/L		91	90 - 110	6	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-293733/1

Matrix: Water

Analysis Batch: 293733

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.8	mg/L			09/05/17 14:18	1

Lab Sample ID: LCS 240-293733/2

Matrix: Water

Analysis Batch: 293733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	480	473		mg/L		99	80 - 120

Lab Sample ID: 240-84403-7 DU

Matrix: Water

Analysis Batch: 293733

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	390		385		mg/L		2	20

Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-293901/7

Matrix: Water

Analysis Batch: 293901

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			09/06/17 14:08	1

Lab Sample ID: LCS 240-293901/8

Matrix: Water

Analysis Batch: 293901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	10.3	10.2		mg/L		99	85 - 114

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: 240-84403-7 MS

Matrix: Water

Analysis Batch: 293901

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.35		2.50	3.55		mg/L		128	79 - 130

Lab Sample ID: 240-84403-7 MSD

Matrix: Water

Analysis Batch: 293901

Client Sample ID: MW-183WT_082917

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.35		2.50	3.45		mg/L		124	79 - 130	3	10

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

GC/MS VOA

Analysis Batch: 294160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-9	TW-242_083017	Total/NA	Water	8260B	
240-84403-12	TRIP BLANK_083017	Total/NA	Water	8260B	
MB 240-294160/6	Method Blank	Total/NA	Water	8260B	
LCS 240-294160/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 294512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-10	TWW-1_083017	Total/NA	Water	8260B	
240-84403-11	DUP-02_083017	Total/NA	Water	8260B	
MB 240-294512/6	Method Blank	Total/NA	Water	8260B	
LCS 240-294512/4	Lab Control Sample	Total/NA	Water	8260B	

Metals

Prep Batch: 293448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Dissolved	Water	3005A	
240-84403-1	X-9D_082917	Total Recoverable	Water	3005A	
240-84403-2	X-9CAUG_082917	Dissolved	Water	3005A	
240-84403-2	X-9CAUG_082917	Total Recoverable	Water	3005A	
240-84403-3	X-9BR_082917	Dissolved	Water	3005A	
240-84403-3	X-9BR_082917	Total Recoverable	Water	3005A	
240-84403-4	X-9AR_082917	Dissolved	Water	3005A	
240-84403-4	X-9AR_082917	Total Recoverable	Water	3005A	
240-84403-5	X-4D_082917	Dissolved	Water	3005A	
240-84403-5	X-4D_082917	Total Recoverable	Water	3005A	
240-84403-6	X-4CAUG_082917	Dissolved	Water	3005A	
240-84403-6	X-4CAUG_082917	Total Recoverable	Water	3005A	
240-84403-7	MW-183WT_082917	Dissolved	Water	3005A	
240-84403-7	MW-183WT_082917	Total Recoverable	Water	3005A	
240-84403-8	DUP-01_082917	Total Recoverable	Water	3005A	
MB 240-293448/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-293448/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-84403-7 MS	MW-183WT_082917	Dissolved	Water	3005A	
240-84403-7 MS	MW-183WT_082917	Total Recoverable	Water	3005A	
240-84403-7 MSD	MW-183WT_082917	Dissolved	Water	3005A	
240-84403-7 MSD	MW-183WT_082917	Total Recoverable	Water	3005A	

Analysis Batch: 294116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Dissolved	Water	6020	293448
240-84403-1	X-9D_082917	Total Recoverable	Water	6020	293448
240-84403-2	X-9CAUG_082917	Dissolved	Water	6020	293448
240-84403-2	X-9CAUG_082917	Total Recoverable	Water	6020	293448
240-84403-3	X-9BR_082917	Dissolved	Water	6020	293448
240-84403-3	X-9BR_082917	Total Recoverable	Water	6020	293448
240-84403-4	X-9AR_082917	Dissolved	Water	6020	293448
240-84403-4	X-9AR_082917	Total Recoverable	Water	6020	293448
240-84403-5	X-4D_082917	Dissolved	Water	6020	293448
240-84403-5	X-4D_082917	Total Recoverable	Water	6020	293448

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Metals (Continued)

Analysis Batch: 294116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-6	X-4CAUG_082917	Dissolved	Water	6020	293448
240-84403-6	X-4CAUG_082917	Total Recoverable	Water	6020	293448
240-84403-7	MW-183WT_082917	Dissolved	Water	6020	293448
240-84403-7	MW-183WT_082917	Total Recoverable	Water	6020	293448
240-84403-8	DUP-01_082917	Total Recoverable	Water	6020	293448
MB 240-293448/1-A	Method Blank	Total Recoverable	Water	6020	293448
LCS 240-293448/2-A	Lab Control Sample	Total Recoverable	Water	6020	293448
240-84403-7 MS	MW-183WT_082917	Dissolved	Water	6020	293448
240-84403-7 MS	MW-183WT_082917	Total Recoverable	Water	6020	293448
240-84403-7 MSD	MW-183WT_082917	Dissolved	Water	6020	293448
240-84403-7 MSD	MW-183WT_082917	Total Recoverable	Water	6020	293448

Analysis Batch: 294288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Dissolved	Water	6020	293448
240-84403-5	X-4D_082917	Dissolved	Water	6020	293448
240-84403-5	X-4D_082917	Total Recoverable	Water	6020	293448

General Chemistry

Analysis Batch: 293294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-2	X-9CAUG_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-3	X-9BR_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-4	X-9AR_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-5	X-4D_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-6	X-4CAUG_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-7	MW-183WT_082917	Total/NA	Water	4500 H+ B-2000	
240-84403-8	DUP-01_082917	Total/NA	Water	4500 H+ B-2000	
LCS 240-293294/27	Lab Control Sample	Total/NA	Water	4500 H+ B-2000	
240-84403-7 DU	MW-183WT_082917	Total/NA	Water	4500 H+ B-2000	

Analysis Batch: 293728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Total/NA	Water	300.0	
240-84403-2	X-9CAUG_082917	Total/NA	Water	300.0	
240-84403-3	X-9BR_082917	Total/NA	Water	300.0	
240-84403-4	X-9AR_082917	Total/NA	Water	300.0	
240-84403-5	X-4D_082917	Total/NA	Water	300.0	
240-84403-6	X-4CAUG_082917	Total/NA	Water	300.0	
240-84403-7	MW-183WT_082917	Total/NA	Water	300.0	
240-84403-8	DUP-01_082917	Total/NA	Water	300.0	
MB 240-293728/3	Method Blank	Total/NA	Water	300.0	
LCS 240-293728/4	Lab Control Sample	Total/NA	Water	300.0	
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	300.0	
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	300.0	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

General Chemistry (Continued)

Analysis Batch: 293733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Total/NA	Water	SM 2540C	
240-84403-2	X-9CAUG_082917	Total/NA	Water	SM 2540C	
240-84403-3	X-9BR_082917	Total/NA	Water	SM 2540C	
240-84403-4	X-9AR_082917	Total/NA	Water	SM 2540C	
240-84403-5	X-4D_082917	Total/NA	Water	SM 2540C	
240-84403-6	X-4CAUG_082917	Total/NA	Water	SM 2540C	
240-84403-7	MW-183WT_082917	Total/NA	Water	SM 2540C	
240-84403-8	DUP-01_082917	Total/NA	Water	SM 2540C	
MB 240-293733/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-293733/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-84403-7 DU	MW-183WT_082917	Total/NA	Water	SM 2540C	

Analysis Batch: 293741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Total/NA	Water	353.2	
240-84403-2	X-9CAUG_082917	Total/NA	Water	353.2	
240-84403-3	X-9BR_082917	Total/NA	Water	353.2	
240-84403-4	X-9AR_082917	Total/NA	Water	353.2	
240-84403-5	X-4D_082917	Total/NA	Water	353.2	
240-84403-6	X-4CAUG_082917	Total/NA	Water	353.2	
240-84403-7	MW-183WT_082917	Total/NA	Water	353.2	
240-84403-8	DUP-01_082917	Total/NA	Water	353.2	
MB 240-293741/4	Method Blank	Total/NA	Water	353.2	
LCS 240-293741/5	Lab Control Sample	Total/NA	Water	353.2	
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	353.2	
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	353.2	

Analysis Batch: 293859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-2	X-9CAUG_082917	Total/NA	Water	300.0	
240-84403-3	X-9BR_082917	Total/NA	Water	300.0	
240-84403-4	X-9AR_082917	Total/NA	Water	300.0	
240-84403-6	X-4CAUG_082917	Total/NA	Water	300.0	
240-84403-7	MW-183WT_082917	Total/NA	Water	300.0	
240-84403-8	DUP-01_082917	Total/NA	Water	300.0	
MB 240-293859/3	Method Blank	Total/NA	Water	300.0	
LCS 240-293859/4	Lab Control Sample	Total/NA	Water	300.0	
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	300.0	
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	300.0	

Analysis Batch: 293901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-2	X-9CAUG_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-3	X-9BR_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-4	X-9AR_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-5	X-4D_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-6	X-4CAUG_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-7	MW-183WT_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-8	DUP-01_082917	Total/NA	Water	SM 4500 NH3 D	
MB 240-293901/7	Method Blank	Total/NA	Water	SM 4500 NH3 D	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

General Chemistry (Continued)

Analysis Batch: 293901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-293901/8	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	SM 4500 NH3 D	
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	SM 4500 NH3 D	

Prep Batch: 375133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Dissolved	Water	9012A	
240-84403-1	X-9D_082917	Total/NA	Water	9012A	
240-84403-2	X-9CAUG_082917	Dissolved	Water	9012A	
240-84403-2	X-9CAUG_082917	Total/NA	Water	9012A	
240-84403-3	X-9BR_082917	Dissolved	Water	9012A	
240-84403-3	X-9BR_082917	Total/NA	Water	9012A	
240-84403-4	X-9AR_082917	Dissolved	Water	9012A	
240-84403-4	X-9AR_082917	Total/NA	Water	9012A	
240-84403-5	X-4D_082917	Dissolved	Water	9012A	
240-84403-5	X-4D_082917	Total/NA	Water	9012A	
240-84403-6	X-4CAUG_082917	Total/NA	Water	9012A	
240-84403-7	MW-183WT_082917	Total/NA	Water	9012A	
MB 480-375133/1-A	Method Blank	Total/NA	Water	9012A	
LCS 480-375133/2-A	Lab Control Sample	Total/NA	Water	9012A	
LCS 480-375133/3-A	Lab Control Sample	Total/NA	Water	9012A	
240-84403-4 MS	X-9AR_082917	Total/NA	Water	9012A	
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	9012A	
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	9012A	
240-84403-3 DU	X-9BR_082917	Total/NA	Water	9012A	

Prep Batch: 375143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-6	X-4CAUG_082917	Dissolved	Water	9012A	
240-84403-7	MW-183WT_082917	Dissolved	Water	9012A	
240-84403-8	DUP-01_082917	Dissolved	Water	9012A	
MB 480-375143/1-A	Method Blank	Total/NA	Water	9012A	
LCS 480-375143/2-A	Lab Control Sample	Total/NA	Water	9012A	
LCS 480-375143/3-A	Lab Control Sample	Total/NA	Water	9012A	
240-84403-7 MS	MW-183WT_082917	Dissolved	Water	9012A	
240-84403-7 MSD	MW-183WT_082917	Dissolved	Water	9012A	

Analysis Batch: 375268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-1	X-9D_082917	Dissolved	Water	9012A	375133
240-84403-1	X-9D_082917	Total/NA	Water	9012A	375133
240-84403-2	X-9CAUG_082917	Dissolved	Water	9012A	375133
240-84403-2	X-9CAUG_082917	Total/NA	Water	9012A	375133
240-84403-3	X-9BR_082917	Dissolved	Water	9012A	375133
240-84403-3	X-9BR_082917	Total/NA	Water	9012A	375133
240-84403-4	X-9AR_082917	Dissolved	Water	9012A	375133
240-84403-4	X-9AR_082917	Total/NA	Water	9012A	375133
240-84403-5	X-4D_082917	Dissolved	Water	9012A	375133
240-84403-5	X-4D_082917	Total/NA	Water	9012A	375133
240-84403-6	X-4CAUG_082917	Total/NA	Water	9012A	375133
240-84403-7	MW-183WT_082917	Total/NA	Water	9012A	375133

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

General Chemistry (Continued)

Analysis Batch: 375268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-375133/1-A	Method Blank	Total/NA	Water	9012A	375133
LCS 480-375133/2-A	Lab Control Sample	Total/NA	Water	9012A	375133
LCS 480-375133/3-A	Lab Control Sample	Total/NA	Water	9012A	375133
240-84403-4 MS	X-9AR_082917	Total/NA	Water	9012A	375133
240-84403-7 MS	MW-183WT_082917	Total/NA	Water	9012A	375133
240-84403-7 MSD	MW-183WT_082917	Total/NA	Water	9012A	375133
240-84403-3 DU	X-9BR_082917	Total/NA	Water	9012A	375133

Analysis Batch: 375307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84403-6	X-4CAUG_082917	Dissolved	Water	9012A	375143
240-84403-7	MW-183WT_082917	Dissolved	Water	9012A	375143
240-84403-8	DUP-01_082917	Dissolved	Water	9012A	375143
MB 480-375143/1-A	Method Blank	Total/NA	Water	9012A	375143
LCS 480-375143/2-A	Lab Control Sample	Total/NA	Water	9012A	375143
LCS 480-375143/3-A	Lab Control Sample	Total/NA	Water	9012A	375143
240-84403-7 MS	MW-183WT_082917	Dissolved	Water	9012A	375143
240-84403-7 MSD	MW-183WT_082917	Dissolved	Water	9012A	375143

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9D_082917

Date Collected: 08/29/17 08:35

Date Received: 08/31/17 09:00

Lab Sample ID: 240-84403-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 01:56	RKT	TAL CAN
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		5	294288	09/08/17 14:06	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 00:38	RKT	TAL CAN
Total/NA	Analysis	300.0		20	293728	09/05/17 15:56	JWW	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 15:55	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 13:46	CL	TAL CAN
Dissolved	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Dissolved	Analysis	9012A		1	375268	09/05/17 13:18	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 12:59	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 17:33	JWW	TAL CAN

Client Sample ID: X-9CAUG_082917

Date Collected: 08/29/17 08:50

Date Received: 08/31/17 09:00

Lab Sample ID: 240-84403-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 02:03	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 00:44	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 16:17	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 03:30	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 15:56	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 13:50	CL	TAL CAN
Dissolved	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Dissolved	Analysis	9012A		1	375268	09/05/17 13:19	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:01	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 17:41	JWW	TAL CAN

Client Sample ID: X-9BR_082917

Date Collected: 08/29/17 11:05

Date Received: 08/31/17 09:00

Lab Sample ID: 240-84403-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-9BR_082917

Lab Sample ID: 240-84403-3

Date Collected: 08/29/17 11:05

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6020		1	294116	09/08/17 02:10	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 00:51	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 16:37	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 03:50	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 15:58	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 13:54	CL	TAL CAN
Dissolved	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Dissolved	Analysis	9012A		1	375268	09/05/17 13:21	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:02	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		5	293901	09/06/17 17:55	JWW	TAL CAN

Client Sample ID: X-9AR_082917

Lab Sample ID: 240-84403-4

Date Collected: 08/29/17 11:35

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 02:16	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 00:57	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 16:57	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 04:10	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 15:59	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 13:58	CL	TAL CAN
Dissolved	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Dissolved	Analysis	9012A		1	375268	09/05/17 13:22	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:05	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 18:15	JWW	TAL CAN

Client Sample ID: X-4D_082917

Lab Sample ID: 240-84403-5

Date Collected: 08/29/17 14:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 02:23	RKT	TAL CAN
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: X-4D_082917

Lab Sample ID: 240-84403-5

Date Collected: 08/29/17 14:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6020		5	294288	09/08/17 14:13	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 01:04	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		5	294288	09/08/17 14:00	RKT	TAL CAN
Total/NA	Analysis	300.0		20	293728	09/05/17 17:17	JWW	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 16:00	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 14:01	CL	TAL CAN
Dissolved	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Dissolved	Analysis	9012A		1	375268	09/05/17 13:24	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:11	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		5	293901	09/06/17 18:25	JWW	TAL CAN

Client Sample ID: X-4CAUG_082917

Lab Sample ID: 240-84403-6

Date Collected: 08/29/17 15:05

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 02:29	RKT	TAL CAN
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 01:10	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 17:37	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 04:30	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 16:01	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 14:05	CL	TAL CAN
Dissolved	Prep	9012A			375143	09/05/17 00:40	BEV	TAL BUF
Dissolved	Analysis	9012A		1	375307	09/05/17 15:55	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:12	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 18:30	JWW	TAL CAN

Client Sample ID: MW-183WT_082917

Lab Sample ID: 240-84403-7

Date Collected: 08/29/17 17:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	294116	09/08/17 01:37	RKT	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: MW-183WT_082917

Lab Sample ID: 240-84403-7

Date Collected: 08/29/17 17:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 23:52	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 17:57	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 04:50	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 16:04	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 14:13	CL	TAL CAN
Dissolved	Prep	9012A			375143	09/05/17 00:40	BEV	TAL BUF
Dissolved	Analysis	9012A		1	375307	09/05/17 15:57	MDL	TAL BUF
Total/NA	Prep	9012A			375133	09/04/17 10:30	MDL	TAL BUF
Total/NA	Analysis	9012A		1	375268	09/05/17 13:14	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 14:59	JWW	TAL CAN

Client Sample ID: DUP-01_082917

Lab Sample ID: 240-84403-8

Date Collected: 08/29/17 00:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			293448	09/01/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/08/17 01:30	RKT	TAL CAN
Total/NA	Analysis	300.0		5	293728	09/05/17 19:38	JWW	TAL CAN
Total/NA	Analysis	300.0		1	293859	09/07/17 06:31	LKG	TAL CAN
Total/NA	Analysis	353.2		1	293741	09/05/17 16:08	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	293294	08/31/17 14:17	CL	TAL CAN
Dissolved	Prep	9012A			375143	09/05/17 00:40	BEV	TAL BUF
Dissolved	Analysis	9012A		1	375307	09/05/17 16:01	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	293733	09/05/17 14:18	MM	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	293901	09/06/17 18:34	JWW	TAL CAN

Client Sample ID: TW-242_083017

Lab Sample ID: 240-84403-9

Date Collected: 08/30/17 09:00

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	294160	09/08/17 18:43	LRW	TAL CAN

Client Sample ID: TWW-1_083017

Lab Sample ID: 240-84403-10

Date Collected: 08/30/17 10:10

Matrix: Water

Date Received: 08/31/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	294512	09/12/17 23:43	LRW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Client Sample ID: DUP-02_083017

Date Collected: 08/30/17 00:00

Date Received: 08/31/17 09:00

Lab Sample ID: 240-84403-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	294512	09/13/17 00:06	LRW	TAL CAN

Client Sample ID: TRIP BLANK_083017

Date Collected: 08/30/17 00:00

Date Received: 08/31/17 09:00

Lab Sample ID: 240-84403-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	294160	09/08/17 19:48	LRW	TAL CAN

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (GPL)

TestAmerica Job ID: 240-84403-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17 *
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	1169CA	09-30-17 *
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	10026 (NY)	03-31-18
Georgia	State Program	4	956	03-31-18
Illinois	NELAP	5	200003	09-30-17 *
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-18
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	04-01-09 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-18
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-84403-1

Project/Site: RACER Saginaw Plant (GPL)

Laboratory: TestAmerica Buffalo (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	11-26-17 *
Virginia	NELAP	3	460185	09-14-17 *
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

1.2/C1.2 2.2/C2.2 2.4/C2.4

SERIAL NUMBER:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MICHIGAN BP TRANCHE
190

TestAmerica

4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396
Fax: 330-497-0772
Website: www.testamericainc.com

QUOTE NO.

BOTTLE ORDER NO.

ORDER - LOG-IN NO.

CONSULTANT: Arcadis
ARCADIS OFFICE ADDRESS: 28550 Cabot Drive, Suite 500, Novi, MI 48377
ARCADIS PM: Scott Clearwater

FACILITY ID# & ADDRESS (CITY & STATE):
Racer Saginaw Plant (GPL)
ARCADIS WORK AUTHORIZATION # B0050096 2017.0010

SAMPLED BY: Bill Cobern
CLIENT PHONE: 810-588-3642
CLIENT E-MAIL OR FAX: kristen.padron@arcadis.com

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL ☐ NORMAL - 14 CALENDAR DAYS
☐ 1 DAY ☐ 2 DAYS ☐ 5 DAYS ☐ 10 DAYS ☐ OTHER:

SAMPLE DISPOSAL: ☐ RETURN TO CLIENT ☐ DISPOSAL BY LAB
PACKAGE (DELIVERABLE): ☐ TX TRRP ☐ NJ ☐ OTHER:

SAMPLE IDENTIFICATION

DATE TIME

8-29-17 8:35 X-90-082917

8-29-17 8:50 X-90-082917

8-29-17 11:05 X-90-082917

8-29-17 11:35 X-90-082917

8-29-17 14:00 X-40-082917

8-29-17 15:05 X-40-082917

8-29-17 N/A X-40-082917

8-29-17 17:00 MW-183WT-082917

8-29-17 — 040-01-082917

8-30-17 9:00 TW-242-083017

8-30-17 10:10 TW-1-083017

8-30-17 — 040-02-083017

8-30-17 — TW-183WT-083017

RELINQUISHED BY: (SIGNATURE) DATE TIME

RECEIVED BY: (SIGNATURE) DATE TIME

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RELINQUISHED BY: (SIGNATURE) DATE TIME

MATRIX

Aqueous GW, SW, WW

Solid, Semisolid, Sediment

Drinking Water

Other:

NA2S2O3 - Sodium Thiosulfate

NAHSO4 - Sodium Bisulfate

MeOH - Methanol

NaOH - Sodium Hydroxide

H2SO4 - Sulfuric Acid or H3PO4

HNO3 - Nitric Acid

HCL - Hydrochloric Acid

No Preservative

NonAqueous (Oil, Solvent, etc.)

Air

Other:

Other:

Other:

Other:

Other:

Other:

REQUESTED ANALYSIS

POSSIBLE HAZARD IDENTIFICATION

NON-HAZARD

FLAMMABLE

RADIOACTIVE

POISON B

UNKNOWN

OTHER:

NO. OF COOLERS PER HIPMENT:

SPECIAL INSTRUCTIONS

NO SAMPLE MISSED

NO SAMPLE MISSED

NO SAMPLE MISSED

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NO SAMPLE MISSED

NO SAMPLE MISSED

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TestAmerica Canton Sample Receipt Form/Narrative

Login # : 84403

Canton Facility

Client ALCANTARA

Site Name _____

Cooler unpacked by: JOV

Cooler Received on 8-31-17

Opened on 8-31-17

FedEx: 1st Grd Exp UPS FAS Clipper 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
IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #36 (CF +0.3°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 all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954

12. Were VOAs on the COC? Yes No

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

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COULDED 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 _____

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

17. 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)

18. SAMPLE PRESERVATION

- Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
X-9D_082917	240-84403-A-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-9D_082917	240-84403-D-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-9D_082917	240-84403-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-9D_082917	240-84403-F-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
X-9CAUG_082917	240-84403-A-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-9CAUG_082917	240-84403-D-2	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-9CAUG_082917	240-84403-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-9CAUG_082917	240-84403-F-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
X-9BR_082917	240-84403-A-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-9BR_082917	240-84403-D-3	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-9BR_082917	240-84403-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-9BR_082917	240-84403-F-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
X-9AR_082917	240-84403-A-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-9AR_082917	240-84403-D-4	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-9AR_082917	240-84403-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-9AR_082917	240-84403-F-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
X-4D_082917	240-84403-A-5	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-4D_082917	240-84403-D-5	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-4D_082917	240-84403-E-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-4D_082917	240-84403-F-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
X-4CAUG_082917	240-84403-A-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
X-4CAUG_082917	240-84403-D-6	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
X-4CAUG_082917	240-84403-E-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
X-4CAUG_082917	240-84403-F-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
MW-183WT_082917	240-84403-A-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
MW-183WT_082917	240-84403-B-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
MW-183WT_082917	240-84403-C-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
MW-183WT_082917	240-84403-J-7	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-183WT_082917	240-84403-K-7	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-183WT_082917	240-84403-L-7	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-183WT_082917	240-84403-M-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-183WT_082917	240-84403-N-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-183WT_082917	240-84403-O-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
MW-183WT_082917	240-84403-P-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
DUP-01_082917	240-84403-A-8	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
DUP-01_082917	240-84403-D-8	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DUP-01_082917	240-84403-E-8	Plastic 500ml - with Nitric Acid	<2	_____	_____

Client Sample ID

Lab ID

Container Type

Container
pH

Preservative
Added (mls)

Lot #

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s):		COC No:				
Client Contact:		Pohl, Denise		240-76106-1						
Shipping/Receiving		E-Mail:		State of Origin:		Page				
Company:		denise.pohl@testamericainc.com		Michigan		Page 1 of 2				
TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #:		240-84403-1				
Address:		Due Date Requested:		Analysis Requested		Preservation Codes:				
10 Hazelwood Drive,		9/13/2017				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
City:		TAT Requested (days):								
Amherst										
State, Zip:		PO #:								
NY, 14228-2298										
Phone:		WO #:								
716-691-2600(Tel) 716-691-7991(Fax)										
Email:		Project #:								
		24006824								
Project Name:		SSOW#:								
RACER SMI, Green Pt Landfill										
Site:										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Organic, BT=Butyl, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9012A/9012A Prep Cyanide, Total	9012A/9012A FLTRD Cyanide, Dissolved - Field	Total Number of Containers	Special Instructions/Note:
X-9D_082917 (240-84403-1)	8/29/17	08:35 Eastern	Water	Water			X	X	2	
X-9AUG_082917 (240-84403-2)	8/29/17	08:50 Eastern	Water	Water			X	X	2	
X-9BR_082917 (240-84403-3)	8/29/17	11:05 Eastern	Water	Water			X	X	2	
X-9AR_082917 (240-84403-4)	8/29/17	11:35 Eastern	Water	Water			X	X	2	
X-4D_082917 (240-84403-5)	8/29/17	14:00 Eastern	Water	Water			X	X	2	
X-4AUG_082917 (240-84403-6)	8/29/17	15:05 Eastern	Water	Water			X	X	2	
MW-183WT_082917 (240-84403-7)	8/29/17	17:00 Eastern	Water	Water			X	X	4	
MW-183WT_082917 (240-84403-7MS)	8/29/17	17:00 Eastern	MS	Water			X	X	1	
MW-183WT_082917 (240-84403-7MSD)	8/29/17	17:00 Eastern	MSD	Water			X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed	Deliverable Requested: I, II, III, IV, Other (specify)	Return To Client	Disposal By Lab
Primary Deliverable Rank: 2		☐	☐
Empty Kit Relinquished by:	Date:	Special Instructions/QC Requirements:	Archive For Months
Relinquished by:	8-31-17 1530	Received by:	Company: TA808
Relinquished by:		Received by:	Company:
Relinquished by:		Received by:	Company:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-84403-1

Login Number: 84403

List Number: 2

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

List Creation: 09/01/17 02:42 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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: 240-84491-1

Client Project/Site: RACER Saginaw Plant (SMI)

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Scott Clearwater

Denise Pohl

Authorized for release by:

9/19/2017 8:43:41 AM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

LINKS

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results through

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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 Plant (SMI)

TestAmerica Job ID: 240-84491-1

Qualifiers

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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
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.

General Chemistry

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.
α	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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 Plant (SMI)

TestAmerica Job ID: 240-84491-1

Job ID: 240-84491-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: RACER Saginaw Plant (SMI)

Report Number: 240-84491-1

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 samples were received on 9/2/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.2° C, 1.4° C, 2.2° C, 2.4° C, 2.8° C and 3.0° C.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample MW-108WT_083117 (240-84491-6) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 09/07/2017 and analyzed on 09/08/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

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

DISSOLVED POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-110WTR_083117-DISS (240-84491-8), MW-111WT_083117-DISS (240-84491-10), MW-185WT_083117-DISS (240-84491-12), MW-186WT_083117-DISS (240-84491-14) and MW-114WT_083117-DISS (240-84491-16) were analyzed for dissolved polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 09/07/2017 and analyzed on 09/09/2017.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Job ID: 240-84491-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-110WTR_083117-DISS (240-84491-8), MW-111WT_083117-DISS (240-84491-10), MW-186WT_083117-DISS (240-84491-14), MW-186WT_083117-DISS (240-84491-14[MS]), MW-186WT_083117-DISS (240-84491-14[MSD]) and MW-114WT_083117-DISS (240-84491-16). Reagents: 3206288, 2596995 and 3141112.

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

POLYCHLORINATED BIPHENYLS (PCBS)

Samples MW-110WTR_083117 (240-84491-7), MW-111WT_083117 (240-84491-9), MW-185WT_083117 (240-84491-11), MW-186WT_083117 (240-84491-13), MW-114WT_083117 (240-84491-15) and DUP-04_083117 (240-84491-17) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 09/06/2017 and analyzed on 09/08/2017.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: MW-110WTR_083117 (240-84491-7), MW-111WT_083117 (240-84491-9), MW-185WT_083117 (240-84491-11), MW-186WT_083117 (240-84491-13), MW-186WT_083117 (240-84491-13[MS]), MW-186WT_083117 (240-84491-13[MSD]), MW-114WT_083117 (240-84491-15) and DUP-04_083117 (240-84491-17). Reagents: 3206289, 2596994 and 3141113.

Method(s) 8082: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the sample do not directly match any of the laboratory's Aroclor standards used for instrument calibration: MW-111WT_083117-DISS (240-84491-10). The sample has been quantified and reported using the best overall Aroclor/standard pattern match. Due to the reasons stated above there is increased quantitative uncertainty associated with this result.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-149WT_083017 (240-84491-1), MW-107WT_083017 (240-84491-2), DUP-03_083017 (240-84491-5), MW-108WT_083117 (240-84491-6), MW-110WTR_083117 (240-84491-7), MW-111WT_083117 (240-84491-9), MW-185WT_083117 (240-84491-11), MW-186WT_083117 (240-84491-13) and MW-114WT_083117 (240-84491-15) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 09/06/2017 and analyzed on 09/07/2017.

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

TOTAL DISSOLVED SOLIDS

Sample MW-110WTR_083117 (240-84491-7) was analyzed for total dissolved solids in accordance with SM 2540C. The sample was analyzed on 09/06/2017.

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

TOTAL PHOSPHORUS

Samples MW-149WT_083017 (240-84491-1), MW-107WT_083017 (240-84491-2), DUP-03_083017 (240-84491-5), MW-108WT_083117 (240-84491-6), MW-110WTR_083117 (240-84491-7), MW-111WT_083117 (240-84491-9), MW-185WT_083117 (240-84491-11), MW-186WT_083117 (240-84491-13) and MW-114WT_083117 (240-84491-15) were analyzed for total phosphorus in accordance with SM 4500 P E. The samples were analyzed on 09/15/2017.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Job ID: 240-84491-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

AMMONIA

Samples MW-149WT_083017 (240-84491-1), MW-107WT_083017 (240-84491-2), MW-107SI_083017 (240-84491-3), MW-108S2_083017 (240-84491-4), MW-108WT_083117 (240-84491-6), MW-110WTR_083117 (240-84491-7), MW-111WT_083117 (240-84491-9), MW-185WT_083117 (240-84491-11), MW-186WT_083117 (240-84491-13), MW-114WT_083117 (240-84491-15), MW-114S2_090117 (240-84491-18) and DUP-05_090117 (240-84491-19) were analyzed for ammonia in accordance with SM 4500 NH₃ D. The samples were analyzed on 09/13/2017 and 09/15/2017.

Ammonia (as N) was detected in method blank MB 240-294728/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has 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.

Samples MW-108S2_083017 (240-84491-4)[2X] and MW-114S2_090117 (240-84491-18)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 4500 NH3 D	Ammonia	SM	TAL CAN
SM4500 P E-1999	Phosphorus	SM	TAL CAN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",
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.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-84491-1	MW-149WT_083017	Water	08/30/17 13:25	09/02/17 09:30
240-84491-2	MW-107WT_083017	Water	08/30/17 13:10	09/02/17 09:30
240-84491-3	MW-107SI_083017	Water	08/30/17 14:30	09/02/17 09:30
240-84491-4	MW-108S2_083017	Water	08/30/17 16:20	09/02/17 09:30
240-84491-5	DUP-03_083017	Water	08/30/17 00:00	09/02/17 09:30
240-84491-6	MW-108WT_083117	Water	08/31/17 06:30	09/02/17 09:30
240-84491-7	MW-110WTR_083117	Water	08/31/17 09:10	09/02/17 09:30
240-84491-8	MW-110WTR_083117-DISS	Water	08/31/17 09:10	09/02/17 09:30
240-84491-9	MW-111WT_083117	Water	08/31/17 10:00	09/02/17 09:30
240-84491-10	MW-111WT_083117-DISS	Water	08/31/17 10:00	09/02/17 09:30
240-84491-11	MW-185WT_083117	Water	08/31/17 13:10	09/02/17 09:30
240-84491-12	MW-185WT_083117-DISS	Water	08/31/17 13:10	09/02/17 09:30
240-84491-13	MW-186WT_083117	Water	08/31/17 14:15	09/02/17 09:30
240-84491-14	MW-186WT_083117-DISS	Water	08/31/17 14:15	09/02/17 09:30
240-84491-15	MW-114WT_083117	Water	08/31/17 16:55	09/02/17 09:30
240-84491-16	MW-114WT_083117-DISS	Water	08/31/17 16:55	09/02/17 09:30
240-84491-17	DUP-04_083117	Water	08/31/17 00:00	09/02/17 09:30
240-84491-18	MW-114S2_090117	Water	09/01/17 07:40	09/02/17 09:30
240-84491-19	DUP-05_090117	Water	09/01/17 00:00	09/02/17 09:30

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-149WT_083017

Lab Sample ID: 240-84491-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	48		2.0	0.75	ug/L	1			6020	Total
Thallium	0.28	J	1.0	0.20	ug/L	1			6020	Recoverable
Ammonia (as N)	1.1	B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA
Total Phosphorus as P	0.97		0.10	0.037	mg/L	1			SM4500 P E-1999	Total/NA

Client Sample ID: MW-107WT_083017

Lab Sample ID: 240-84491-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.0		2.0	0.75	ug/L	1			6020	Total
Manganese	1500		1.0	2.1	ug/L	1			6020	Recoverable
Ammonia (as N)	0.59	B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-107SI_083017

Lab Sample ID: 240-84491-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Ammonia (as N)	1.8	B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-108S2_083017

Lab Sample ID: 240-84491-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Ammonia (as N)	8.8	B	0.40	0.19	mg/L	2			SM 4500 NH3 D	Total/NA

Client Sample ID: DUP-03_083017

Lab Sample ID: 240-84491-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	48		2.0	0.75	ug/L	1			6020	Total
Total Phosphorus as P	0.85		0.10	0.037	mg/L	1			SM4500 P E-1999	Recoverable

Client Sample ID: MW-108WT_083117

Lab Sample ID: 240-84491-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	1300		1.0	2.1	ug/L	1			6020	Total
										Recoverable

Client Sample ID: MW-110WTR_083117

Lab Sample ID: 240-84491-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	2900		1.0	2.1	ug/L	1			6020	Total
Total Dissolved Solids	830		10	7.8	mg/L	1			SM 2540C	Recoverable
Total Phosphorus as P	0.37		0.10	0.037	mg/L	1			SM4500 P E-1999	Total/NA

Client Sample ID: MW-110WTR_083117-DISS

Lab Sample ID: 240-84491-8

No Detections.										
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This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-111WT_083117

Lab Sample ID: 240-84491-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	1000		1.0	2.1	ug/L	1			6020	Total Recoverable
Ammonia (as N)	1.1	B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA
Total Phosphorus as P	0.39		0.10	0.037	mg/L	1			SM4500 P E-1999	Total/NA

Client Sample ID: MW-111WT_083117-DISS

Lab Sample ID: 240-84491-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor-1248	0.067	J p	0.095	0.048	ug/L	1			8082	Dissolved

Client Sample ID: MW-185WT_083117

Lab Sample ID: 240-84491-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	140		1.0	2.1	ug/L	1			6020	Total Recoverable
Ammonia (as N)	0.096	J B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-185WT_083117-DISS

Lab Sample ID: 240-84491-12

No Detections.										
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Client Sample ID: MW-186WT_083117

Lab Sample ID: 240-84491-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	700		1.0	2.1	ug/L	1			6020	Total Recoverable
Thallium	0.22	J	1.0	0.20	ug/L	1			6020	Total Recoverable
Ammonia (as N)	1.3	B	0.20	0.093	mg/L	1			SM 4500 NH3 D	Total/NA
Total Phosphorus as P	0.29		0.10	0.037	mg/L	1			SM4500 P E-1999	Total/NA

Client Sample ID: MW-186WT_083117-DISS

Lab Sample ID: 240-84491-14

No Detections.										
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Client Sample ID: MW-114WT_083117

Lab Sample ID: 240-84491-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Manganese	850		1.0	2.1	ug/L	1			6020	Total Recoverable
Total Phosphorus as P	0.16		0.10	0.037	mg/L	1			SM4500 P E-1999	Total/NA

Client Sample ID: MW-114WT_083117-DISS

Lab Sample ID: 240-84491-16

No Detections.										
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Client Sample ID: DUP-04_083117

Lab Sample ID: 240-84491-17

No Detections.										
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This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-114S2_090117

Lab Sample ID: 240-84491-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	2.3		1.0	0.47	mg/L	5		SM 4500 NH3 D	Total/NA

Client Sample ID: DUP-05_090117

Lab Sample ID: 240-84491-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	2.1	B	0.20	0.093	mg/L	1		SM 4500 NH3 D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-149WT_083017

Lab Sample ID: 240-84491-1

Date Collected: 08/30/17 13:25

Matrix: Water

Date Received: 09/02/17 09:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	48		2.0	0.75	ug/L		09/06/17 14:00	09/07/17 22:20	1
Thallium	0.28	J	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.1	B	0.20	0.093	mg/L			09/13/17 12:05	1
Total Phosphorus as P	0.97		0.10	0.037	mg/L			09/15/17 07:10	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-107WT_083017

Lab Sample ID: 240-84491-2

Date Collected: 08/30/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		2.0	0.75	ug/L		09/06/17 14:00	09/07/17 22:26	1
Manganese	1500		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 22:26	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.59	B	0.20	0.093	mg/L			09/13/17 12:10	1
Total Phosphorus as P	0.10	U	0.10	0.037	mg/L			09/15/17 07:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-107SI_083017

Lab Sample ID: 240-84491-3

Date Collected: 08/30/17 14:30

Matrix: Water

Date Received: 09/02/17 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8	B	0.20	0.093	mg/L			09/13/17 12:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-108S2_083017

Lab Sample ID: 240-84491-4

Date Collected: 08/30/17 16:20

Matrix: Water

Date Received: 09/02/17 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	8.8	B	0.40	0.19	mg/L			09/13/17 12:24	2

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: DUP-03_083017

Lab Sample ID: 240-84491-5

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	48		2.0	0.75	ug/L		09/06/17 14:00	09/07/17 22:33	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 22:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.85		0.10	0.037	mg/L			09/15/17 07:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-108WT_083117

Lab Sample ID: 240-84491-6

Date Collected: 08/31/17 06:30

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		09/07/17 17:10	09/08/17 21:12	1
Acenaphthylene	0.19	U	0.19	0.046	ug/L		09/07/17 17:10	09/08/17 21:12	1
Acetophenone	0.95	U	0.95	0.32	ug/L		09/07/17 17:10	09/08/17 21:12	1
Anthracene	0.19	U	0.19	0.084	ug/L		09/07/17 17:10	09/08/17 21:12	1
Atrazine	0.95	U	0.95	0.32	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzaldehyde	0.95	U	0.95	0.37	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzo[a]anthracene	0.19	U	0.19	0.028	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzo[a]pyrene	0.19	U	0.19	0.049	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzo[b]fluoranthene	0.19	U	0.19	0.038	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.044	ug/L		09/07/17 17:10	09/08/17 21:12	1
Benzo[k]fluoranthene	0.19	U	0.19	0.043	ug/L		09/07/17 17:10	09/08/17 21:12	1
1,1'-Biphenyl	0.95	U	0.95	0.12	ug/L		09/07/17 17:10	09/08/17 21:12	1
Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30	ug/L		09/07/17 17:10	09/08/17 21:12	1
Bis(2-chloroethyl)ether	0.95	U	0.95	0.095	ug/L		09/07/17 17:10	09/08/17 21:12	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.6	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.21	ug/L		09/07/17 17:10	09/08/17 21:12	1
Butyl benzyl phthalate	0.95	U	0.95	0.25	ug/L		09/07/17 17:10	09/08/17 21:12	1
Caprolactam	4.8	U	4.8	0.19	ug/L		09/07/17 17:10	09/08/17 21:12	1
Carbazole	0.95	U	0.95	0.27	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Chloroaniline	1.9	U	1.9	0.20	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.20	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Chloronaphthalene	0.95	U	0.95	0.095	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Chlorophenol	0.95	U	0.95	0.28	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29	ug/L		09/07/17 17:10	09/08/17 21:12	1
Chrysene	0.19	U	0.19	0.048	ug/L		09/07/17 17:10	09/08/17 21:12	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.042	ug/L		09/07/17 17:10	09/08/17 21:12	1
Dibenzofuran	0.95	U	0.95	0.019	ug/L		09/07/17 17:10	09/08/17 21:12	1
3,3'-Dichlorobenzidine	3.8	U	3.8	0.35	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4-Dichlorophenol	1.9	U	1.9	0.18	ug/L		09/07/17 17:10	09/08/17 21:12	1
Diethyl phthalate	0.95	U	0.95	0.57	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4-Dimethylphenol	1.9	U	1.9	0.24	ug/L		09/07/17 17:10	09/08/17 21:12	1
Dimethyl phthalate	0.95	U	0.95	0.28	ug/L		09/07/17 17:10	09/08/17 21:12	1
Di-n-butyl phthalate	0.95	U	0.95	1.6	ug/L		09/07/17 17:10	09/08/17 21:12	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4-Dinitrophenol	4.8	U	4.8	0.30	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4-Dinitrotoluene	4.8	U	4.8	0.24	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,6-Dinitrotoluene	4.8	U	4.8	0.76	ug/L		09/07/17 17:10	09/08/17 21:12	1
Di-n-octyl phthalate	0.95	U	0.95	0.22	ug/L		09/07/17 17:10	09/08/17 21:12	1
Fluoranthene	0.19	U	0.19	0.042	ug/L		09/07/17 17:10	09/08/17 21:12	1
Fluorene	0.19	U	0.19	0.039	ug/L		09/07/17 17:10	09/08/17 21:12	1
Hexachlorobenzene	0.19	U	0.19	0.081	ug/L		09/07/17 17:10	09/08/17 21:12	1
Hexachlorobutadiene	0.95	U	0.95	0.26	ug/L		09/07/17 17:10	09/08/17 21:12	1
Hexachlorocyclopentadiene	4.8	U	4.8	0.23	ug/L		09/07/17 17:10	09/08/17 21:12	1
Hexachloroethane	0.95	U	0.95	0.18	ug/L		09/07/17 17:10	09/08/17 21:12	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.041	ug/L		09/07/17 17:10	09/08/17 21:12	1
Isophorone	0.95	U	0.95	0.26	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Methylnaphthalene	0.19	U	0.19	0.086	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Methylphenol	0.95	U	0.95	0.16	ug/L		09/07/17 17:10	09/08/17 21:12	1
3 & 4 Methylphenol	1.9	U	1.9	0.76	ug/L		09/07/17 17:10	09/08/17 21:12	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-108WT_083117

Lab Sample ID: 240-84491-6

Date Collected: 08/31/17 06:30

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.19	U	0.19	0.060	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Nitroaniline	1.9	U	1.9	0.20	ug/L		09/07/17 17:10	09/08/17 21:12	1
3-Nitroaniline	1.9	U	1.9	0.27	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Nitroaniline	1.9	U	1.9	0.21	ug/L		09/07/17 17:10	09/08/17 21:12	1
Nitrobenzene	0.95	U	0.95	0.038	ug/L		09/07/17 17:10	09/08/17 21:12	1
2-Nitrophenol	1.9	U	1.9	0.27	ug/L		09/07/17 17:10	09/08/17 21:12	1
4-Nitrophenol	4.8	U	4.8	0.28	ug/L		09/07/17 17:10	09/08/17 21:12	1
N-Nitrosodi-n-propylamine	0.95	U	0.95	0.23	ug/L		09/07/17 17:10	09/08/17 21:12	1
N-Nitrosodiphenylamine	0.95	U	0.95	0.30	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38	ug/L		09/07/17 17:10	09/08/17 21:12	1
Pentachlorophenol	4.8	U	4.8	0.26	ug/L		09/07/17 17:10	09/08/17 21:12	1
Phenanthrene	0.19	U	0.19	0.059	ug/L		09/07/17 17:10	09/08/17 21:12	1
Phenol	0.95	U	0.95	0.57	ug/L		09/07/17 17:10	09/08/17 21:12	1
Pyrene	0.19	U	0.19	0.040	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.29	ug/L		09/07/17 17:10	09/08/17 21:12	1
2,4,6-Trichlorophenol	3.8	U	3.8	0.23	ug/L		09/07/17 17:10	09/08/17 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		38 - 120	09/07/17 17:10	09/08/17 21:12	1
2-Fluorophenol (Surr)	42		10 - 120	09/07/17 17:10	09/08/17 21:12	1
Nitrobenzene-d5 (Surr)	81		32 - 120	09/07/17 17:10	09/08/17 21:12	1
Phenol-d5 (Surr)	25		10 - 120	09/07/17 17:10	09/08/17 21:12	1
Terphenyl-d14 (Surr)	73		23 - 127	09/07/17 17:10	09/08/17 21:12	1
2,4,6-Tribromophenol (Surr)	79		28 - 120	09/07/17 17:10	09/08/17 21:12	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1300		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 22:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			09/13/17 12:30	1
Total Phosphorus as P	0.10	U	0.10	0.037	mg/L			09/15/17 07:23	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-110WTR_083117

Lab Sample ID: 240-84491-7

Date Collected: 08/31/17 09:10

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 09:56	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		21 - 120	09/06/17 14:00	09/08/17 09:56	1
DCB Decachlorobiphenyl	20		10 - 120	09/06/17 14:00	09/08/17 09:56	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2900		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 22:59	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	830		10	7.8	mg/L			09/06/17 17:19	1
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			09/13/17 13:05	1
Total Phosphorus as P	0.37		0.10	0.037	mg/L			09/15/17 07:25	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-110WTR_083117-DISS

Lab Sample ID: 240-84491-8

Date Collected: 08/31/17 09:10

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/07/17 15:09	09/09/17 10:56	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/07/17 15:09	09/09/17 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		21 - 120	09/07/17 15:09	09/09/17 10:56	1
DCB Decachlorobiphenyl	13		10 - 120	09/07/17 15:09	09/09/17 10:56	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-111WT_083117

Lab Sample ID: 240-84491-9

Date Collected: 08/31/17 10:00

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 10:16	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 10:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		21 - 120	09/06/17 14:00	09/08/17 10:16	1
DCB Decachlorobiphenyl	41		10 - 120	09/06/17 14:00	09/08/17 10:16	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1000		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 23:06	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.1	B	0.20	0.093	mg/L			09/13/17 13:09	1
Total Phosphorus as P	0.39		0.10	0.037	mg/L			09/15/17 07:27	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-111WT_083117-DISS

Lab Sample ID: 240-84491-10

Date Collected: 08/31/17 10:00

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1248	0.067	J p	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/07/17 15:09	09/09/17 11:13	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/07/17 15:09	09/09/17 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		21 - 120				09/07/17 15:09	09/09/17 11:13	1
DCB Decachlorobiphenyl	54		10 - 120				09/07/17 15:09	09/09/17 11:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-185WT_083117

Lab Sample ID: 240-84491-11

Date Collected: 08/31/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 10:35	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 10:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		21 - 120	09/06/17 14:00	09/08/17 10:35	1
DCB Decachlorobiphenyl	41		10 - 120	09/06/17 14:00	09/08/17 10:35	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	140		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 23:12	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 23:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.096	J B	0.20	0.093	mg/L			09/13/17 13:24	1
Total Phosphorus as P	0.10	U	0.10	0.037	mg/L			09/15/17 07:37	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-185WT_083117-DISS

Lab Sample ID: 240-84491-12

Date Collected: 08/31/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/07/17 15:09	09/09/17 11:31	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/07/17 15:09	09/09/17 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	54		21 - 120	09/07/17 15:09	09/09/17 11:31	1
DCB Decachlorobiphenyl	42		10 - 120	09/07/17 15:09	09/09/17 11:31	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-186WT_083117

Lab Sample ID: 240-84491-13

Date Collected: 08/31/17 14:15

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 10:54	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		21 - 120	09/06/17 14:00	09/08/17 10:54	1
DCB Decachlorobiphenyl	40		10 - 120	09/06/17 14:00	09/08/17 10:54	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	700		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 21:47	1
Thallium	0.22	J	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 21:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.3	B	0.20	0.093	mg/L			09/13/17 13:28	1
Total Phosphorus as P	0.29		0.10	0.037	mg/L			09/15/17 07:30	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-186WT_083117-DISS

Lab Sample ID: 240-84491-14

Date Collected: 08/31/17 14:15

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/07/17 15:09	09/09/17 11:49	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/07/17 15:09	09/09/17 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		21 - 120	09/07/17 15:09	09/09/17 11:49	1
DCB Decachlorobiphenyl	40		10 - 120	09/07/17 15:09	09/09/17 11:49	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-114WT_083117

Lab Sample ID: 240-84491-15

Date Collected: 08/31/17 16:55

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 11:54	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		21 - 120	09/06/17 14:00	09/08/17 11:54	1
DCB Decachlorobiphenyl	36		10 - 120	09/06/17 14:00	09/08/17 11:54	1

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	850		1.0	2.1	ug/L		09/06/17 14:00	09/07/17 23:19	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			09/13/17 13:50	1
Total Phosphorus as P	0.16		0.10	0.037	mg/L			09/15/17 07:40	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-114WT_083117-DISS

Lab Sample ID: 240-84491-16

Date Collected: 08/31/17 16:55

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/07/17 15:09	09/09/17 12:42	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/07/17 15:09	09/09/17 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	59		21 - 120	09/07/17 15:09	09/09/17 12:42	1
DCB Decachlorobiphenyl	37		10 - 120	09/07/17 15:09	09/09/17 12:42	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: DUP-04_083117

Lab Sample ID: 240-84491-17

Date Collected: 08/31/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1221	0.095	U	0.095	0.086	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1232	0.095	U	0.095	0.067	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1242	0.095	U	0.095	0.057	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1254	0.095	U	0.095	0.029	ug/L		09/06/17 14:00	09/08/17 12:13	1
Aroclor-1260	0.095	U	0.095	0.038	ug/L		09/06/17 14:00	09/08/17 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		21 - 120	09/06/17 14:00	09/08/17 12:13	1
DCB Decachlorobiphenyl	37		10 - 120	09/06/17 14:00	09/08/17 12:13	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-114S2_090117

Lab Sample ID: 240-84491-18

Date Collected: 09/01/17 07:40

Matrix: Water

Date Received: 09/02/17 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.3		1.0	0.47	mg/L			09/15/17 14:39	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: DUP-05_090117

Lab Sample ID: 240-84491-19

Date Collected: 09/01/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.1	B	0.20	0.093	mg/L			09/13/17 13:55	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (38-120)	2FP (10-120)	NBZ (32-120)	PHL (10-120)	TPH (23-127)	TBP (28-120)
240-84491-6	MW-108WT_083117	77	42	81	25	73	79
LCS 240-293963/16-A	Lab Control Sample	86	57	83	39	98	94
MB 240-293963/15-A	Method Blank	74	44	70	29	92	76

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (21-120)	DCB2 (10-120)
240-84491-7	MW-110WTR_083117	69	20
240-84491-9	MW-111WT_083117	61	41
240-84491-11	MW-185WT_083117	62	41
240-84491-13	MW-186WT_083117	58	40
240-84491-13 MS	MW-186WT_083117	69	38
240-84491-13 MSD	MW-186WT_083117	64	44
240-84491-15	MW-114WT_083117	59	36
240-84491-17	DUP-04_083117	69	37
LCS 240-293864/14-A	Lab Control Sample	76	68
MB 240-293864/13-A	Method Blank	81	69

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (21-120)	DCB1 (10-120)
LCS 240-294054/9-A	Lab Control Sample	57	53
MB 240-294054/8-A	Method Blank	67	58

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TestAmerica Canton

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Matrix: Water

Prep Type: Dissolved

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (21-120)	DCB1 (10-120)
240-84491-8	MW-110WTR_083117-DISS	51	13
240-84491-10	MW-111WT_083117-DISS	64	54
240-84491-12	MW-185WT_083117-DISS	54	42
240-84491-14	MW-186WT_083117-DISS	59	40
240-84491-14 MS	MW-186WT_083117-DISS	61	38
240-84491-14 MSD	MW-186WT_083117-DISS	59	39
240-84491-16	MW-114WT_083117-DISS	59	37

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: MB 240-293963/15-A

Matrix: Water

Analysis Batch: 294128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		09/07/17 08:31	09/08/17 10:05	1
Acenaphthylene	0.20	U	0.20	0.048	ug/L		09/07/17 08:31	09/08/17 10:05	1
Acetophenone	1.0	U	1.0	0.34	ug/L		09/07/17 08:31	09/08/17 10:05	1
Anthracene	0.20	U	0.20	0.088	ug/L		09/07/17 08:31	09/08/17 10:05	1
Atrazine	1.0	U	1.0	0.34	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzaldehyde	1.0	U	1.0	0.39	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzo[a]anthracene	0.20	U	0.20	0.030	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzo[a]pyrene	0.20	U	0.20	0.051	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzo[b]fluoranthene	0.20	U	0.20	0.039	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.046	ug/L		09/07/17 08:31	09/08/17 10:05	1
Benzo[k]fluoranthene	0.20	U	0.20	0.045	ug/L		09/07/17 08:31	09/08/17 10:05	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		09/07/17 08:31	09/08/17 10:05	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.32	ug/L		09/07/17 08:31	09/08/17 10:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.10	ug/L		09/07/17 08:31	09/08/17 10:05	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.22	ug/L		09/07/17 08:31	09/08/17 10:05	1
Butyl benzyl phthalate	1.0	U	1.0	0.26	ug/L		09/07/17 08:31	09/08/17 10:05	1
Caprolactam	5.0	U	5.0	0.20	ug/L		09/07/17 08:31	09/08/17 10:05	1
Carbazole	1.0	U	1.0	0.28	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Chloroaniline	2.0	U	2.0	0.21	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.21	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Chloronaphthalene	1.0	U	1.0	0.10	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Chlorophenol	1.0	U	1.0	0.29	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.30	ug/L		09/07/17 08:31	09/08/17 10:05	1
Chrysene	0.20	U	0.20	0.050	ug/L		09/07/17 08:31	09/08/17 10:05	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.045	ug/L		09/07/17 08:31	09/08/17 10:05	1
Dibenzofuran	1.0	U	1.0	0.020	ug/L		09/07/17 08:31	09/08/17 10:05	1
3,3'-Dichlorobenzidine	4.0	U	4.0	0.37	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4-Dichlorophenol	2.0	U	2.0	0.19	ug/L		09/07/17 08:31	09/08/17 10:05	1
Diethyl phthalate	1.0	U	1.0	0.60	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4-Dimethylphenol	2.0	U	2.0	0.25	ug/L		09/07/17 08:31	09/08/17 10:05	1
Dimethyl phthalate	1.0	U	1.0	0.29	ug/L		09/07/17 08:31	09/08/17 10:05	1
Di-n-butyl phthalate	1.0	U	1.0	1.7	ug/L		09/07/17 08:31	09/08/17 10:05	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	2.4	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4-Dinitrophenol	5.0	U	5.0	0.32	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4-Dinitrotoluene	5.0	U	5.0	0.25	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,6-Dinitrotoluene	5.0	U	5.0	0.80	ug/L		09/07/17 08:31	09/08/17 10:05	1
Di-n-octyl phthalate	1.0	U	1.0	0.23	ug/L		09/07/17 08:31	09/08/17 10:05	1
Fluoranthene	0.20	U	0.20	0.045	ug/L		09/07/17 08:31	09/08/17 10:05	1
Fluorene	0.20	U	0.20	0.041	ug/L		09/07/17 08:31	09/08/17 10:05	1
Hexachlorobenzene	0.20	U	0.20	0.085	ug/L		09/07/17 08:31	09/08/17 10:05	1
Hexachlorobutadiene	1.0	U	1.0	0.27	ug/L		09/07/17 08:31	09/08/17 10:05	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.24	ug/L		09/07/17 08:31	09/08/17 10:05	1
Hexachloroethane	1.0	U	1.0	0.19	ug/L		09/07/17 08:31	09/08/17 10:05	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.043	ug/L		09/07/17 08:31	09/08/17 10:05	1
Isophorone	1.0	U	1.0	0.27	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Methylnaphthalene	0.20	U	0.20	0.090	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Methylphenol	1.0	U	1.0	0.17	ug/L		09/07/17 08:31	09/08/17 10:05	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: MB 240-293963/15-A

Matrix: Water

Analysis Batch: 294128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	2.0	U	2.0	0.80	ug/L		09/07/17 08:31	09/08/17 10:05	1
Naphthalene	0.20	U	0.20	0.063	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Nitroaniline	2.0	U	2.0	0.21	ug/L		09/07/17 08:31	09/08/17 10:05	1
3-Nitroaniline	2.0	U	2.0	0.28	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Nitroaniline	2.0	U	2.0	0.22	ug/L		09/07/17 08:31	09/08/17 10:05	1
Nitrobenzene	1.0	U	1.0	0.040	ug/L		09/07/17 08:31	09/08/17 10:05	1
2-Nitrophenol	2.0	U	2.0	0.28	ug/L		09/07/17 08:31	09/08/17 10:05	1
4-Nitrophenol	5.0	U	5.0	0.29	ug/L		09/07/17 08:31	09/08/17 10:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.24	ug/L		09/07/17 08:31	09/08/17 10:05	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.31	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.40	ug/L		09/07/17 08:31	09/08/17 10:05	1
Pentachlorophenol	5.0	U	5.0	0.27	ug/L		09/07/17 08:31	09/08/17 10:05	1
Phenanthrene	0.20	U	0.20	0.062	ug/L		09/07/17 08:31	09/08/17 10:05	1
Phenol	1.0	U	1.0	0.60	ug/L		09/07/17 08:31	09/08/17 10:05	1
Pyrene	0.20	U	0.20	0.042	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.30	ug/L		09/07/17 08:31	09/08/17 10:05	1
2,4,6-Trichlorophenol	4.0	U	4.0	0.24	ug/L		09/07/17 08:31	09/08/17 10:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		81 - 029	9/ :97:07 9140	9/ :91:07 094N	0
2-Fluorophenol (Surr)	33		09 - 029	9/ :97:07 9140	9/ :91:07 094N	0
1,2,4-Trichlorobenzene-5N (Surr)	79		82 - 029	9/ :97:07 9140	9/ :91:07 094N	0
Phenol-5N (Surr)	2/		09 - 029	9/ :97:07 9140	9/ :91:07 094N	0
Terphenyl-503 (Surr)	/ 2		28 - 027	9/ :97:07 9140	9/ :91:07 094N	0
2,4,6-Tribromophenol (Surr)	7,		21 - 029	9/ :97:07 9140	9/ :91:07 094N	0

Lab Sample ID: LCS 240-293963/16-A

Matrix: Water

Analysis Batch: 294128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	20.0	16.6		ug/L		83	54 - 120
Acenaphthylene	20.0	16.5		ug/L		82	53 - 120
Acetophenone	20.0	15.4		ug/L		77	56 - 120
Anthracene	20.0	17.9		ug/L		89	56 - 120
Atrazine	40.0	39.2		ug/L		98	61 - 127
Benzaldehyde	40.0	35.3		ug/L		88	47 - 134
Benzo[a]anthracene	20.0	17.7		ug/L		89	54 - 120
Benzo[a]pyrene	20.0	18.3		ug/L		92	54 - 120
Benzo[b]fluoranthene	20.0	18.1		ug/L		91	53 - 120
Benzo[g,h,i]perylene	20.0	18.6		ug/L		93	55 - 120
Benzo[k]fluoranthene	20.0	17.4		ug/L		87	55 - 120
1,1'-Biphenyl	20.0	16.4		ug/L		82	53 - 120
Bis(2-chloroethoxy)methane	20.0	16.6		ug/L		83	56 - 120
Bis(2-chloroethyl)ether	20.0	15.6		ug/L		78	51 - 120
Bis(2-ethylhexyl) phthalate	20.0	18.8		ug/L		94	50 - 120
4-Bromophenyl phenyl ether	20.0	17.3		ug/L		86	54 - 120
Butyl benzyl phthalate	20.0	19.1		ug/L		95	51 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: LCS 240-293963/16-A

Matrix: Water

Analysis Batch: 294128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Caprolactam	40.0	8.60		ug/L		21	10 - 120
Carbazole	20.0	18.0		ug/L		90	62 - 120
4-Chloroaniline	20.0	2.42		ug/L		12	10 - 120
4-Chloro-3-methylphenol	20.0	18.0		ug/L		90	54 - 120
2-Chloronaphthalene	20.0	16.3		ug/L		81	53 - 120
2-Chlorophenol	20.0	14.7		ug/L		73	53 - 120
4-Chlorophenyl phenyl ether	20.0	16.8		ug/L		84	56 - 120
Chrysene	20.0	18.3		ug/L		92	56 - 120
Dibenz(a,h)anthracene	20.0	18.5		ug/L		93	52 - 120
Dibenzofuran	20.0	16.4		ug/L		82	55 - 120
3,3'-Dichlorobenzidine	40.0	35.2		ug/L		88	57 - 120
2,4-Dichlorophenol	20.0	15.7		ug/L		78	55 - 120
Diethyl phthalate	20.0	18.3		ug/L		91	42 - 132
2,4-Dimethylphenol	20.0	16.2		ug/L		81	52 - 120
Dimethyl phthalate	20.0	17.3		ug/L		87	56 - 120
Di-n-butyl phthalate	20.0	18.5		ug/L		92	61 - 120
4,6-Dinitro-2-methylphenol	40.0	31.9		ug/L		80	36 - 120
2,4-Dinitrophenol	40.0	32.7		ug/L		82	12 - 120
2,4-Dinitrotoluene	20.0	18.8		ug/L		94	60 - 120
2,6-Dinitrotoluene	20.0	18.1		ug/L		90	60 - 120
Di-n-octyl phthalate	20.0	20.0		ug/L		100	58 - 120
Fluoranthene	20.0	17.6		ug/L		88	58 - 120
Fluorene	20.0	17.2		ug/L		86	56 - 120
Hexachlorobenzene	20.0	16.9		ug/L		85	51 - 120
Hexachlorobutadiene	20.0	12.8		ug/L		64	44 - 120
Hexachlorocyclopentadiene	20.0	14.4		ug/L		72	19 - 120
Hexachloroethane	20.0	12.8		ug/L		64	44 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.7		ug/L		93	54 - 120
Isophorone	20.0	17.1		ug/L		86	55 - 120
2-Methylnaphthalene	20.0	15.5		ug/L		78	54 - 120
2-Methylphenol	20.0	14.3		ug/L		71	46 - 120
3 & 4 Methylphenol	20.0	13.8		ug/L		69	40 - 120
Naphthalene	20.0	15.1		ug/L		76	53 - 120
2-Nitroaniline	20.0	20.1		ug/L		101	51 - 120
3-Nitroaniline	20.0	14.7		ug/L		73	53 - 120
4-Nitroaniline	20.0	20.6		ug/L		103	55 - 120
Nitrobenzene	20.0	16.3		ug/L		82	55 - 120
2-Nitrophenol	20.0	15.4		ug/L		77	54 - 120
4-Nitrophenol	40.0	19.8		ug/L		49	10 - 120
N-Nitrosodi-n-propylamine	20.0	17.1		ug/L		85	53 - 120
N-Nitrosodiphenylamine	20.0	17.7		ug/L		88	55 - 120
2,2'-oxybis[1-chloropropane]	20.0	16.2		ug/L		81	45 - 120
Pentachlorophenol	40.0	32.9		ug/L		82	30 - 120
Phenanthrene	20.0	17.3		ug/L		87	55 - 120
Phenol	20.0	7.67		ug/L		38	10 - 120
Pyrene	20.0	17.5		ug/L		87	57 - 120
2,4,5-Trichlorophenol	20.0	17.2		ug/L		86	54 - 120
2,4,6-Trichlorophenol	20.0	16.9		ug/L		84	54 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: LCS 240-293963/16-A
Matrix: Water
Analysis Batch: 294128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293963

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	1,		81 - 029
2-Fluorophenol (Surr)	N7		09 - 029
1,2,4-Trichlorobenzene-5N (Surr)	18		82 - 029
Phenol-5N (Surr)	8/		09 - 029
Terphenyl-503 (Surr)	/ 1		28 - 027
2,4,6-Tribromophenol (Surr)	/ 3		21 - 029

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

Lab Sample ID: MB 240-293864/13-A
Matrix: Water
Analysis Batch: 294075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.050	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1221	0.10	U	0.10	0.090	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1232	0.10	U	0.10	0.070	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1248	0.10	U	0.10	0.050	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1254	0.10	U	0.10	0.030	ug/L		09/06/17 14:00	09/08/17 07:59	1
Aroclor-1260	0.10	U	0.10	0.040	ug/L		09/06/17 14:00	09/08/17 07:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Teachloro-m-xylene	10		20 - 029	9/ :9, :07 0349	9/ :91:07 974V	0
DCB Decachlorobiphenyl	, /		09 - 029	9/ :9, :07 0349	9/ :91:07 974V	0

Lab Sample ID: LCS 240-293864/14-A
Matrix: Water
Analysis Batch: 294075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	2.50	1.67		ug/L		67	32 - 120
Aroclor-1260	2.50	1.66		ug/L		66	36 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Teachloro-m-xylene	7,		20 - 029
DCB Decachlorobiphenyl	, 1		09 - 029

Lab Sample ID: 240-84491-13 MS
Matrix: Water
Analysis Batch: 294075

Client Sample ID: MW-186WT_083117
Prep Type: Total/NA
Prep Batch: 293864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	0.095	U	2.38	1.44		ug/L		61	24 - 121
Aroclor-1260	0.095	U	2.38	1.30		ug/L		55	10 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: 240-84491-13 MS

Matrix: Water

Analysis Batch: 294075

Client Sample ID: MW-186WT_083117

Prep Type: Total/NA

Prep Batch: 293864

Surrogate	MS %Recovery	MS Qualifier	Limits
Tezachloro-m-xylene	, /		20 - 029
DCB Decachlorobiphenyl	81		09 - 029

Lab Sample ID: 240-84491-13 MSD

Matrix: Water

Analysis Batch: 294075

Client Sample ID: MW-186WT_083117

Prep Type: Total/NA

Prep Batch: 293864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	0.095	U	2.38	1.40		ug/L		59	24 - 121	1	30
Aroclor-1260	0.095	U	2.38	1.36		ug/L		57	10 - 120	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tezachloro-m-xylene	, 3		20 - 029
DCB Decachlorobiphenyl	33		09 - 029

Lab Sample ID: MB 240-294054/8-A

Matrix: Water

Analysis Batch: 294206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 294054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	0.050	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1221	0.10	U	0.10	0.090	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1232	0.10	U	0.10	0.070	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1242	0.10	U	0.10	0.060	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1248	0.10	U	0.10	0.050	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1254	0.10	U	0.10	0.030	ug/L		09/07/17 15:09	09/09/17 10:21	1
Aroclor-1260	0.10	U	0.10	0.040	ug/L		09/07/17 15:09	09/09/17 10:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tezachloro-m-xylene	, 7		20 - 029	9/ :97:07 0N49/	9/ :9/ :07 0940	0
DCB Decachlorobiphenyl	N1		09 - 029	9/ :97:07 0N49/	9/ :9/ :07 0940	0

Lab Sample ID: LCS 240-294054/9-A

Matrix: Water

Analysis Batch: 294206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 294054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	1.09		ug/L		44	32 - 120
Aroclor-1260	2.50	1.21		ug/L		48	36 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tezachloro-m-xylene	N7		20 - 029
DCB Decachlorobiphenyl	N8		09 - 029

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

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

Lab Sample ID: 240-84491-14 MS

Matrix: Water

Analysis Batch: 294206

Client Sample ID: MW-186WT_083117-DISS

Prep Type: Dissolved

Prep Batch: 294054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	0.095	U	2.38	1.31		ug/L		55	24 - 121
Aroclor-1260	0.095	U	2.38	1.30		ug/L		55	10 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tezachloro-m-xylene	, 0		20 - 029						
DCB Decachlorobiphenyl	81		09 - 029						

Lab Sample ID: 240-84491-14 MSD

Matrix: Water

Analysis Batch: 294206

Client Sample ID: MW-186WT_083117-DISS

Prep Type: Dissolved

Prep Batch: 294054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	0.095	U	2.38	1.17		ug/L		49	24 - 121	9	30
Aroclor-1260	0.095	U	2.38	1.15		ug/L		48	10 - 120	12	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tezachloro-m-xylene	N		20 - 029								
DCB Decachlorobiphenyl	8/		09 - 029								

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-293827/1-A

Matrix: Water

Analysis Batch: 294116

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 293827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		09/06/17 14:00	09/07/17 21:34	1
Manganese	1.0	U	1.0	2.1	ug/L		09/06/17 14:00	09/07/17 21:34	1
Thallium	1.0	U	1.0	0.20	ug/L		09/06/17 14:00	09/07/17 21:34	1

Lab Sample ID: LCS 240-293827/2-A

Matrix: Water

Analysis Batch: 294116

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 293827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1000	1020		ug/L		102	80 - 120
Manganese	1000	1040		ug/L		104	80 - 120
Thallium	250	269		ug/L		107	80 - 120

Lab Sample ID: 240-84491-13 MS

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-186WT_083117

Prep Type: Total Recoverable

Prep Batch: 293827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Manganese	700		1000	1710		ug/L		102	75 - 125
Thallium	0.22	J	250	265		ug/L		106	75 - 125

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 240-84491-13 MSD

Matrix: Water

Analysis Batch: 294116

Client Sample ID: MW-186WT_083117

Prep Type: Total Recoverable

Prep Batch: 293827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	700		1000	1740		ug/L		104	75 - 125	1	20
Thallium	0.22	J	250	263		ug/L		105	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-293897/1

Matrix: Water

Analysis Batch: 293897

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.8	mg/L			09/06/17 17:19	1

Lab Sample ID: LCS 240-293897/2

Matrix: Water

Analysis Batch: 293897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	480	496		mg/L		103	80 - 120

Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-294728/7

Matrix: Water

Analysis Batch: 294728

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.113	J	0.20	0.093	mg/L			09/13/17 11:52	1

Lab Sample ID: LCS 240-294728/8

Matrix: Water

Analysis Batch: 294728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	10.3	10.9		mg/L		106	85 - 114

Lab Sample ID: 240-84491-13 MS

Matrix: Water

Analysis Batch: 294728

Client Sample ID: MW-186WT_083117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.3	B	2.50	3.95		mg/L		107	79 - 130

Lab Sample ID: 240-84491-13 MSD

Matrix: Water

Analysis Batch: 294728

Client Sample ID: MW-186WT_083117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.3	B	2.50	3.91		mg/L		106	79 - 130	1	10

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: MB 240-295077/7

Matrix: Water

Analysis Batch: 295077

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			09/15/17 14:14	1

Lab Sample ID: LCS 240-295077/8

Matrix: Water

Analysis Batch: 295077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	10.3	9.66		mg/L		94	85 - 114

Lab Sample ID: 240-84491-18 MS

Matrix: Water

Analysis Batch: 295077

Client Sample ID: MW-114S2_090117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.3		12.5	15.7		mg/L		107	79 - 130

Lab Sample ID: 240-84491-18 MSD

Matrix: Water

Analysis Batch: 295077

Client Sample ID: MW-114S2_090117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	2.3		12.5	15.2		mg/L		103	79 - 130	3	10

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-294944/3

Matrix: Water

Analysis Batch: 294944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.10	U	0.10	0.037	mg/L			09/15/17 06:50	1

Lab Sample ID: LCS 240-294944/4

Matrix: Water

Analysis Batch: 294944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	0.665	0.712		mg/L		107	77 - 120

Lab Sample ID: 240-84491-13 MS

Matrix: Water

Analysis Batch: 294944

Client Sample ID: MW-186WT_083117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	0.29		0.500	0.822		mg/L		107	38 - 156

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Method: SM4500 P E-1999 - Phosphorus (Continued)

Lab Sample ID: 240-84491-13 MSD

Matrix: Water

Analysis Batch: 294944

Client Sample ID: MW-186WT_083117

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Phosphorus as P	0.29		0.500	0.854		mg/L		114	38 - 156	4	29

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

GC/MS Semi VOA

Prep Batch: 293963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-6	MW-108WT_083117	Total/NA	Water	3510C	
MB 240-293963/15-A	Method Blank	Total/NA	Water	3510C	
LCS 240-293963/16-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 294128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-6	MW-108WT_083117	Total/NA	Water	8270C	293963
MB 240-293963/15-A	Method Blank	Total/NA	Water	8270C	293963
LCS 240-293963/16-A	Lab Control Sample	Total/NA	Water	8270C	293963

GC Semi VOA

Prep Batch: 293864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-7	MW-110WTR_083117	Total/NA	Water	3520C	
240-84491-9	MW-111WT_083117	Total/NA	Water	3520C	
240-84491-11	MW-185WT_083117	Total/NA	Water	3520C	
240-84491-13	MW-186WT_083117	Total/NA	Water	3520C	
240-84491-15	MW-114WT_083117	Total/NA	Water	3520C	
240-84491-17	DUP-04_083117	Total/NA	Water	3520C	
MB 240-293864/13-A	Method Blank	Total/NA	Water	3520C	
LCS 240-293864/14-A	Lab Control Sample	Total/NA	Water	3520C	
240-84491-13 MS	MW-186WT_083117	Total/NA	Water	3520C	
240-84491-13 MSD	MW-186WT_083117	Total/NA	Water	3520C	

Prep Batch: 294054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-8	MW-110WTR_083117-DISS	Dissolved	Water	3520C	
240-84491-10	MW-111WT_083117-DISS	Dissolved	Water	3520C	
240-84491-12	MW-185WT_083117-DISS	Dissolved	Water	3520C	
240-84491-14	MW-186WT_083117-DISS	Dissolved	Water	3520C	
240-84491-16	MW-114WT_083117-DISS	Dissolved	Water	3520C	
MB 240-294054/8-A	Method Blank	Total/NA	Water	3520C	
LCS 240-294054/9-A	Lab Control Sample	Total/NA	Water	3520C	
240-84491-14 MS	MW-186WT_083117-DISS	Dissolved	Water	3520C	
240-84491-14 MSD	MW-186WT_083117-DISS	Dissolved	Water	3520C	

Analysis Batch: 294075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-7	MW-110WTR_083117	Total/NA	Water	8082	293864
240-84491-9	MW-111WT_083117	Total/NA	Water	8082	293864
240-84491-11	MW-185WT_083117	Total/NA	Water	8082	293864
240-84491-13	MW-186WT_083117	Total/NA	Water	8082	293864
240-84491-15	MW-114WT_083117	Total/NA	Water	8082	293864
240-84491-17	DUP-04_083117	Total/NA	Water	8082	293864
MB 240-293864/13-A	Method Blank	Total/NA	Water	8082	293864
LCS 240-293864/14-A	Lab Control Sample	Total/NA	Water	8082	293864
240-84491-13 MS	MW-186WT_083117	Total/NA	Water	8082	293864
240-84491-13 MSD	MW-186WT_083117	Total/NA	Water	8082	293864

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

GC Semi VOA (Continued)

Analysis Batch: 294206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-8	MW-110WTR_083117-DISS	Dissolved	Water	8082	294054
240-84491-10	MW-111WT_083117-DISS	Dissolved	Water	8082	294054
240-84491-12	MW-185WT_083117-DISS	Dissolved	Water	8082	294054
240-84491-14	MW-186WT_083117-DISS	Dissolved	Water	8082	294054
240-84491-16	MW-114WT_083117-DISS	Dissolved	Water	8082	294054
MB 240-294054/8-A	Method Blank	Total/NA	Water	8082	294054
LCS 240-294054/9-A	Lab Control Sample	Total/NA	Water	8082	294054
240-84491-14 MS	MW-186WT_083117-DISS	Dissolved	Water	8082	294054
240-84491-14 MSD	MW-186WT_083117-DISS	Dissolved	Water	8082	294054

Metals

Prep Batch: 293827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-1	MW-149WT_083017	Total Recoverable	Water	3005A	
240-84491-2	MW-107WT_083017	Total Recoverable	Water	3005A	
240-84491-5	DUP-03_083017	Total Recoverable	Water	3005A	
240-84491-6	MW-108WT_083117	Total Recoverable	Water	3005A	
240-84491-7	MW-110WTR_083117	Total Recoverable	Water	3005A	
240-84491-9	MW-111WT_083117	Total Recoverable	Water	3005A	
240-84491-11	MW-185WT_083117	Total Recoverable	Water	3005A	
240-84491-13	MW-186WT_083117	Total Recoverable	Water	3005A	
240-84491-15	MW-114WT_083117	Total Recoverable	Water	3005A	
MB 240-293827/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-293827/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-84491-13 MS	MW-186WT_083117	Total Recoverable	Water	3005A	
240-84491-13 MSD	MW-186WT_083117	Total Recoverable	Water	3005A	

Analysis Batch: 294116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-1	MW-149WT_083017	Total Recoverable	Water	6020	293827
240-84491-2	MW-107WT_083017	Total Recoverable	Water	6020	293827
240-84491-5	DUP-03_083017	Total Recoverable	Water	6020	293827
240-84491-6	MW-108WT_083117	Total Recoverable	Water	6020	293827
240-84491-7	MW-110WTR_083117	Total Recoverable	Water	6020	293827
240-84491-9	MW-111WT_083117	Total Recoverable	Water	6020	293827
240-84491-11	MW-185WT_083117	Total Recoverable	Water	6020	293827
240-84491-13	MW-186WT_083117	Total Recoverable	Water	6020	293827
240-84491-15	MW-114WT_083117	Total Recoverable	Water	6020	293827
MB 240-293827/1-A	Method Blank	Total Recoverable	Water	6020	293827
LCS 240-293827/2-A	Lab Control Sample	Total Recoverable	Water	6020	293827
240-84491-13 MS	MW-186WT_083117	Total Recoverable	Water	6020	293827
240-84491-13 MSD	MW-186WT_083117	Total Recoverable	Water	6020	293827

General Chemistry

Analysis Batch: 293897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-7	MW-110WTR_083117	Total/NA	Water	SM 2540C	
MB 240-293897/1	Method Blank	Total/NA	Water	SM 2540C	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

General Chemistry (Continued)

Analysis Batch: 293897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-293897/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 294728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-1	MW-149WT_083017	Total/NA	Water	SM 4500 NH3 D	
240-84491-2	MW-107WT_083017	Total/NA	Water	SM 4500 NH3 D	
240-84491-3	MW-107SI_083017	Total/NA	Water	SM 4500 NH3 D	
240-84491-4	MW-108S2_083017	Total/NA	Water	SM 4500 NH3 D	
240-84491-6	MW-108WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-7	MW-110WTR_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-9	MW-111WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-11	MW-185WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-13	MW-186WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-15	MW-114WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-19	DUP-05_090117	Total/NA	Water	SM 4500 NH3 D	
MB 240-294728/7	Method Blank	Total/NA	Water	SM 4500 NH3 D	
LCS 240-294728/8	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	
240-84491-13 MS	MW-186WT_083117	Total/NA	Water	SM 4500 NH3 D	
240-84491-13 MSD	MW-186WT_083117	Total/NA	Water	SM 4500 NH3 D	

Analysis Batch: 294944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-1	MW-149WT_083017	Total/NA	Water	SM4500 P E-1999	
240-84491-2	MW-107WT_083017	Total/NA	Water	SM4500 P E-1999	
240-84491-5	DUP-03_083017	Total/NA	Water	SM4500 P E-1999	
240-84491-6	MW-108WT_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-7	MW-110WTR_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-9	MW-111WT_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-11	MW-185WT_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-13	MW-186WT_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-15	MW-114WT_083117	Total/NA	Water	SM4500 P E-1999	
MB 240-294944/3	Method Blank	Total/NA	Water	SM4500 P E-1999	
LCS 240-294944/4	Lab Control Sample	Total/NA	Water	SM4500 P E-1999	
240-84491-13 MS	MW-186WT_083117	Total/NA	Water	SM4500 P E-1999	
240-84491-13 MSD	MW-186WT_083117	Total/NA	Water	SM4500 P E-1999	

Analysis Batch: 295077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-18	MW-114S2_090117	Total/NA	Water	SM 4500 NH3 D	
MB 240-295077/7	Method Blank	Total/NA	Water	SM 4500 NH3 D	
LCS 240-295077/8	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

General Chemistry (Continued)

Analysis Batch: 295077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-84491-18 MS	MW-114S2_090117	Total/NA	Water	SM 4500 NH3 D	
240-84491-18 MSD	MW-114S2_090117	Total/NA	Water	SM 4500 NH3 D	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-149WT_083017

Lab Sample ID: 240-84491-1

Date Collected: 08/30/17 13:25

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 22:20	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 12:05	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:10	TPH	TAL CAN

Client Sample ID: MW-107WT_083017

Lab Sample ID: 240-84491-2

Date Collected: 08/30/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 22:26	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 12:10	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:13	TPH	TAL CAN

Client Sample ID: MW-107SI_083017

Lab Sample ID: 240-84491-3

Date Collected: 08/30/17 14:30

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 12:13	JAS	TAL CAN

Client Sample ID: MW-108S2_083017

Lab Sample ID: 240-84491-4

Date Collected: 08/30/17 16:20

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		2	294728	09/13/17 12:24	JAS	TAL CAN

Client Sample ID: DUP-03_083017

Lab Sample ID: 240-84491-5

Date Collected: 08/30/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 22:33	RKT	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:20	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-108WT_083117

Lab Sample ID: 240-84491-6

Date Collected: 08/31/17 06:30

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			293963	09/07/17 17:10	BMB	TAL CAN
Total/NA	Analysis	8270C		1	294128	09/08/17 21:12	JMG	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 22:53	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 12:30	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:23	TPH	TAL CAN

Client Sample ID: MW-110WTR_083117

Lab Sample ID: 240-84491-7

Date Collected: 08/31/17 09:10

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 09:56	CSC	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 22:59	RKT	TAL CAN
Total/NA	Analysis	SM 2540C		1	293897	09/06/17 17:19	CL	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:05	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:25	TPH	TAL CAN

Client Sample ID: MW-110WTR_083117-DISS

Lab Sample ID: 240-84491-8

Date Collected: 08/31/17 09:10

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			294054	09/07/17 15:09	CS	TAL CAN
Dissolved	Analysis	8082		1	294206	09/09/17 10:56	KMG	TAL CAN

Client Sample ID: MW-111WT_083117

Lab Sample ID: 240-84491-9

Date Collected: 08/31/17 10:00

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 10:16	CSC	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 23:06	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:09	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:27	TPH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-111WT_083117-DISS

Lab Sample ID: 240-84491-10

Date Collected: 08/31/17 10:00

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			294054	09/07/17 15:09	CS	TAL CAN
Dissolved	Analysis	8082		1	294206	09/09/17 11:13	KMG	TAL CAN

Client Sample ID: MW-185WT_083117

Lab Sample ID: 240-84491-11

Date Collected: 08/31/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 10:35	CSC	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 23:12	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:24	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:37	TPH	TAL CAN

Client Sample ID: MW-185WT_083117-DISS

Lab Sample ID: 240-84491-12

Date Collected: 08/31/17 13:10

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			294054	09/07/17 15:09	CS	TAL CAN
Dissolved	Analysis	8082		1	294206	09/09/17 11:31	KMG	TAL CAN

Client Sample ID: MW-186WT_083117

Lab Sample ID: 240-84491-13

Date Collected: 08/31/17 14:15

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 10:54	CSC	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 21:47	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:28	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:30	TPH	TAL CAN

Client Sample ID: MW-186WT_083117-DISS

Lab Sample ID: 240-84491-14

Date Collected: 08/31/17 14:15

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			294054	09/07/17 15:09	CS	TAL CAN
Dissolved	Analysis	8082		1	294206	09/09/17 11:49	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: RACER Saginaw Plant (SMI)

TestAmerica Job ID: 240-84491-1

Client Sample ID: MW-114WT_083117

Lab Sample ID: 240-84491-15

Date Collected: 08/31/17 16:55

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 11:54	CSC	TAL CAN
Total Recoverable	Prep	3005A			293827	09/06/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6020		1	294116	09/07/17 23:19	RKT	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:50	JAS	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	294944	09/15/17 07:40	TPH	TAL CAN

Client Sample ID: MW-114WT_083117-DISS

Lab Sample ID: 240-84491-16

Date Collected: 08/31/17 16:55

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			294054	09/07/17 15:09	CS	TAL CAN
Dissolved	Analysis	8082		1	294206	09/09/17 12:42	KMG	TAL CAN

Client Sample ID: DUP-04_083117

Lab Sample ID: 240-84491-17

Date Collected: 08/31/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			293864	09/06/17 14:00	CS	TAL CAN
Total/NA	Analysis	8082		1	294075	09/08/17 12:13	CSC	TAL CAN

Client Sample ID: MW-114S2_090117

Lab Sample ID: 240-84491-18

Date Collected: 09/01/17 07:40

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		5	295077	09/15/17 14:39	JWW	TAL CAN

Client Sample ID: DUP-05_090117

Lab Sample ID: 240-84491-19

Date Collected: 09/01/17 00:00

Matrix: Water

Date Received: 09/02/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		1	294728	09/13/17 13:55	JAS	TAL CAN

Laboratory References:

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

TestAmerica Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 240-84491-1

Project/Site: RACER Saginaw Plant (SMI)

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

1.2/C1.2 2.4/C2.4 3.0/C3.0 1.4/C1.4 2.8/C2.8 2.2/C2.2 SERIAL NUMBER:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

MICHIGAN BP TRANCHE
190

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

4101 Shuffel Street NW
North Canton, OH 44720

Phone: 330-497-9396

Fax: 330-497-0772

Website: www.testamericainc.com

ORDER - LOG-IN NO.

CONSULTANT: Arcadis		ARCADIS OFFICE ADDRESS 28550 Cabot Drive, Suite 500, Novi, MI 48377		ARCADIS PM: Scott Clearwater		REQUESTED ANALYSIS		PAGE 1 OF 2	
FACILITY ID# & ADDRESS (CITY & STATE) Racer Saginaw Plant (SMI)		ARCADIS WORK AUTHORIZATION # B00064434.2017.00010				POSSIBLE HAZARD IDENTIFICATION			
SAMPLED BY Bill Cobern		810-588-3642		CLIENT E-MAIL OR FAX kristen.padron@arcadis.com		Δ NON-HAZARD			
CLIENT PHONE 810-225-1928						Δ FLAMMABLE			
TAT REQUESTED: RUSH NEEDS LAB PRE-APPROVAL						Δ RADIOACTIVE			
□ 1 DAY □ 2 DAYS □ 5 DAYS □ 10 DAYS □ OTHER:						Δ POISON B			
SAMPLE DISPOSAL: □ RETURN TO CLIENT □ DISPOSAL BY LAB						Δ UNKNOWN			
PACKAGE (DELIVERABLE): □ TX TRRP □ NJ □ OTHER:						Δ OTH			
SAMPLE		SAMPLE IDENTIFICATION		MATRIX		NUMBER OF CONTAINERS SUBMITTED		LAB USE ONLY - SAMPLE NUMBER	
DATE	TIME								
8-30-17	13:25	MW-149WT-083017		NonAqueous (Oil, Solvent, etc.)		133			
8-30-17	13:10	MW-107WT-083017		Air		11			
8-30-17	14:30	MW-10751-083017		Solid, Semisolid, Sediment		1			
8-30-17	16:20	MW-10852-083017		Aqueous GW, SW, WW		1			
8-30-17	—	DW-03-083017		Drinking Water		11			
8-31-17	6:30	MW-108WT-083117		Other		11			
8-31-17	9:10	MW-110WT-083117		HCL - Hydrochloric Acid		11			
8-31-17	10:00	MW-111WT-083117		HNO3 - Nitric Acid		11			
8-31-17	13:10	MW-185WT-083117		H2SO4 - Sulfuric Acid or H3PO4		11			
8-31-17	14:15	MW-186WT-083117		NaOH - Sodium Hydroxide		11			
8-31-17	16:55	MW-114WT-083117		MeOH - Methanol		11			
8-31-17	—	DW-04-083117		NAHSO4 - Sodium Bisulfate		11			
9-1-17	7:40	MW-11452-090117		NAHSO4 - Sodium Bisulfate		3			
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		DATE		TIME	
[Signature]		8/31/17		9:15		9/1/17		9:16	
RECEIVED BY: (SIGNATURE)		DATE		TIME		DATE		TIME	
[Signature]		9/1/17		9:15		9/1/17		9:30	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		DATE		TIME	
[Signature]		9/1/17		9:15		9/1/17		9:30	
RECEIVED BY: (SIGNATURE)		DATE		TIME		DATE		TIME	
[Signature]		9/1/17		9:15		9/1/17		9:30	

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: [Signature]

DATE

TIME

CUSTODY INTACT?

Δ YES Δ NO

CUSTODY SEAL NO.

COOLER TEMPERATURE(S) °C & OTHER REMARKS:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Phone: 330-497-9396
Fax: 330-497-0772
Website: www.testamericainc.com

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THE LEADER IN ENVIRONMENTAL TESTING

MICHIGAN **BP** TRANCHE
190[illegible]

TestAmerica Canton Sample Receipt Form/Narrative

 Login # : 84491
Canton Facility

 Client BP Tranche Site Name Arcahis Cooler unpacked by: DSD

 Cooler Received on 09/02/17 Opened on 09/02/17

 FedEx: 1st Grd ☒ Exp ☐ UPS ☐ FAS ☐ Clipper 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: Water Ice Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
 IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity Leach 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 all preserved sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐ pH Strip Lot# HC697954

12. Were VOAs on the COC? Yes ☒ No ☐

13. Were air bubbles >6 mm in any VOA vials?  Larger than this. 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 _____

 Tests that are not
checked for pH by
Receiving:

 VOAs
Oil and Grease
TOC

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

17. 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)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login #: 84491

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WT-NC-099H-071615 Cooler Receipt Form_page 2 - Multiple Coolers.doc rls

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
MW-149WT-083017	240-84491-A-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-149WT-083017	240-84491-B-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-149WT-083017	240-84491-C-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-149WT-083017	240-84491-D-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-149WT-083017	240-84491-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-149WT-083017	240-84491-F-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-107WT-083017	240-84491-A-2	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-107WT-083017	240-84491-B-2	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-107WT-083017	240-84491-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-107SI-083017	240-84491-A-3	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-108S2-083017	240-84491-A-4	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DUP-03-083017	240-84491-A-5	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DUP-03-083017	240-84491-B-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-108WT-083117	240-84491-A-6	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-108WT-083117	240-84491-B-6	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-108WT-083117	240-84491-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-110WTR-083117	240-84491-B-7	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-110WTR-083117	240-84491-C-7	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-110WTR-083117	240-84491-D-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-111WT-083117	240-84491-A-9	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-111WT-083117	240-84491-B-9	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-111WT-083117	240-84491-C-9	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-185WT-083117	240-84491-A-11	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-185WT-083117	240-84491-B-11	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-185WT-083117	240-84491-C-11	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-186WT-083117	240-84491-A-13	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-186WT-083117	240-84491-B-13	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-186WT-083117	240-84491-C-13	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-114WT-083117	240-84491-A-15	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-114WT-083117	240-84491-B-15	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-114WT-083117	240-84491-C-15	Plastic 500ml - with Nitric Acid	<2	_____	_____
MW-114S2-090117	240-84491-A-18	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-114S2-090117	240-84491-B-18	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
MW-114S2-090117	240-84491-C-18	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DUP-05-090117	240-84491-A-19	Plastic 500ml - with Sulfuric Acid	<2	_____	_____

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: 240-88066-1

Client Project/Site: Racer Saginaw

For:

ARCADIS U.S., Inc.

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Attn: Scott Clearwater

Denise Pohl

Authorized for release by:

11/29/2017 5:15:41 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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results through

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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

TestAmerica Job ID: 240-88066-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

TestAmerica Job ID: 240-88066-1

Job ID: 240-88066-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Racer Saginaw

Report Number: 240-88066-1

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.

The 9012A Total Cyanide analysis was performed at the TestAmerica Buffalo laboratory.

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 samples were received on 11/15/2017 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

DISSOLVED METALS (ICPMS)

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 11/16/2017 and analyzed on 11/20/2017.

Method(s) 6020: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3). 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.

DISSOLVED MERCURY (CVAA)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Job ID: 240-88066-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 11/21/2017 and analyzed on 11/22/2017.

Mercury failed the recovery criteria low for the MSD of sample MW-118WT_111317MSD (240-88066-3) in batch 240-304760. 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.

TOTAL DISSOLVED SOLIDS

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 11/16/2017.

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

ANIONS

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 11/15/2017.

Samples MW-117S1_111317 (240-88066-1)[10X], MW-1118S1_111317 (240-88066-2)[10X] and MW-118WT_111317 (240-88066-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

NITRATE-NITRITE AS NITROGEN

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/20/2017 and 11/22/2017.

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

DISSOLVED CYANIDE

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for dissolved cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 11/20/2017.

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

TOTAL CYANIDE

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 11/20/2017.

Cyanide, Dissolved and Cyanide, Total failed the recovery criteria low for the MS of sample MW-1118S1_111317MS (240-88066-2) in batch 480-388432. 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.

PH

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 11/15/2017.

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

AMMONIA

Samples MW-117S1_111317 (240-88066-1), MW-1118S1_111317 (240-88066-2) and MW-118WT_111317 (240-88066-3) were analyzed for ammonia in accordance with SM 4500 NH3 D. The samples were analyzed on 11/24/2017.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Job ID: 240-88066-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples MW-117S1_111317 (240-88066-1)[2X], MW-1118S1_111317 (240-88066-2)[2X] and MW-118WT_111317 (240-88066-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CAN
4500 H+ B-2000	pH	SM	TAL CAN
9012A	Cyanide, Total and/or Amenable	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 4500 NH3 D	Ammonia	SM	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-88066-1	MW-117S1_111317	Water	11/13/17 13:05	11/15/17 09:45
240-88066-2	MW-1118S1_111317	Water	11/13/17 14:00	11/15/17 09:45
240-88066-3	MW-118WT_111317	Water	11/13/17 15:10	11/15/17 09:45

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-117S1_111317

Lab Sample ID: 240-88066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.0		2.0	0.75	ug/L	1			6020	Dissolved
Barium	1700		5.0	2.2	ug/L	1			6020	Dissolved
Iron	8700		50	47	ug/L	1			6020	Dissolved
Manganese	260		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	110000		1000	330	ug/L	1			6020	Dissolved
Chloride	240		10	2.8	mg/L	10			300.0	Total/NA
pH	7.0	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	950		20	16	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	8.5		0.40	0.19	mg/L	2			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-1118S1_111317

Lab Sample ID: 240-88066-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	1.4	J	2.0	0.75	ug/L	1			6020	Dissolved
Barium	750		5.0	2.2	ug/L	1			6020	Dissolved
Iron	8500		50	47	ug/L	1			6020	Dissolved
Manganese	460		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	100000		1000	330	ug/L	1			6020	Dissolved
Chloride	260		10	2.8	mg/L	10			300.0	Total/NA
Nitrate Nitrite as N	0.031	J	0.050	0.031	mg/L	1			353.2	Total/NA
pH	7.1	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	920		20	16	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	7.6		0.40	0.19	mg/L	2			SM 4500 NH3 D	Total/NA

Client Sample ID: MW-118WT_111317

Lab Sample ID: 240-88066-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	370		5.0	2.2	ug/L	1			6020	Dissolved
Iron	15000		50	47	ug/L	1			6020	Dissolved
Manganese	570		2.0	2.1	ug/L	1			6020	Dissolved
Sodium	82000		1000	330	ug/L	1			6020	Dissolved
Chloride	270		10	2.8	mg/L	10			300.0	Total/NA
pH	7.0	HF	0.1	0.1	SU	1			4500 H+ B-2000	Total/NA
Total Dissolved Solids	1000		20	16	mg/L	1			SM 2540C	Total/NA
Ammonia (as N)	24		1.0	0.47	mg/L	5			SM 4500 NH3 D	Total/NA
Cyanide, Dissolved	0.0058	J	0.010	0.0050	mg/L	1			9012A	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-117S1_111317

Lab Sample ID: 240-88066-1

Date Collected: 11/13/17 13:05

Matrix: Water

Date Received: 11/15/17 09:45

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		2.0	0.75	ug/L		11/16/17 14:00	11/20/17 19:35	1
Barium	1700		5.0	2.2	ug/L		11/16/17 14:00	11/20/17 19:35	1
Iron	8700		50	47	ug/L		11/16/17 14:00	11/20/17 19:35	1
Manganese	260		2.0	2.1	ug/L		11/16/17 14:00	11/20/17 19:35	1
Selenium	5.0	U	5.0	0.89	ug/L		11/16/17 14:00	11/20/17 19:35	1
Sodium	110000		1000	330	ug/L		11/16/17 14:00	11/20/17 19:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		11/21/17 14:00	11/22/17 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		10	2.8	mg/L			11/15/17 17:15	10
Sulfate	1.0	U	1.0	0.35	mg/L			11/15/17 13:53	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			11/20/17 13:33	1
pH	7.0	HF	0.1	0.1	SU			11/15/17 14:08	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:23	1
Total Dissolved Solids	950		20	16	mg/L			11/16/17 13:56	1
Ammonia (as N)	8.5		0.40	0.19	mg/L			11/24/17 12:23	2

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:30	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-1118S1_111317

Lab Sample ID: 240-88066-2

Date Collected: 11/13/17 14:00

Matrix: Water

Date Received: 11/15/17 09:45

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4	J	2.0	0.75	ug/L		11/16/17 14:00	11/20/17 19:48	1
Barium	750		5.0	2.2	ug/L		11/16/17 14:00	11/20/17 19:48	1
Iron	8500		50	47	ug/L		11/16/17 14:00	11/20/17 19:48	1
Manganese	460		2.0	2.1	ug/L		11/16/17 14:00	11/20/17 19:48	1
Selenium	5.0	U	5.0	0.89	ug/L		11/16/17 14:00	11/20/17 19:48	1
Sodium	100000		1000	330	ug/L		11/16/17 14:00	11/20/17 19:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		11/21/17 14:00	11/22/17 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		10	2.8	mg/L			11/15/17 16:34	10
Sulfate	1.0	U	1.0	0.35	mg/L			11/15/17 13:13	1
Nitrate Nitrite as N	0.031	J	0.050	0.031	mg/L			11/22/17 13:09	1
pH	7.1	HF	0.1	0.1	SU			11/15/17 13:57	1
Cyanide, Total	0.010	U F1	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:26	1
Total Dissolved Solids	920		20	16	mg/L			11/16/17 13:56	1
Ammonia (as N)	7.6		0.40	0.19	mg/L			11/24/17 12:27	2

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:32	1

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-118WT_111317

Lab Sample ID: 240-88066-3

Date Collected: 11/13/17 15:10

Matrix: Water

Date Received: 11/15/17 09:45

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		11/16/17 14:00	11/20/17 19:52	1
Barium	370		5.0	2.2	ug/L		11/16/17 14:00	11/20/17 19:52	1
Iron	15000		50	47	ug/L		11/16/17 14:00	11/20/17 19:52	1
Manganese	570		2.0	2.1	ug/L		11/16/17 14:00	11/20/17 19:52	1
Selenium	5.0	U	5.0	0.89	ug/L		11/16/17 14:00	11/20/17 19:52	1
Sodium	82000		1000	330	ug/L		11/16/17 14:00	11/20/17 19:52	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U F1	0.20	0.13	ug/L		11/21/17 14:00	11/22/17 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		10	2.8	mg/L			11/15/17 16:55	10
Sulfate	1.0	U	1.0	0.35	mg/L			11/15/17 13:33	1
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			11/20/17 13:34	1
pH	7.0	HF	0.1	0.1	SU			11/15/17 14:02	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:29	1
Total Dissolved Solids	1000		20	16	mg/L			11/16/17 13:56	1
Ammonia (as N)	24		1.0	0.47	mg/L			11/24/17 12:31	5

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.0058	J	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:36	1

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-303827/1-A

Matrix: Water

Analysis Batch: 304469

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 303827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.75	ug/L		11/16/17 14:00	11/20/17 18:59	1
Barium	5.0	U	5.0	2.2	ug/L		11/16/17 14:00	11/20/17 18:59	1
Iron	50	U	50	47	ug/L		11/16/17 14:00	11/20/17 18:59	1
Manganese	2.0	U	2.0	2.1	ug/L		11/16/17 14:00	11/20/17 18:59	1
Selenium	5.0	U	5.0	0.89	ug/L		11/16/17 14:00	11/20/17 18:59	1
Sodium	1000	U	1000	330	ug/L		11/16/17 14:00	11/20/17 18:59	1

Lab Sample ID: LCS 240-303827/2-A

Matrix: Water

Analysis Batch: 304469

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 303827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1000	1010		ug/L		101	80 - 120
Barium	1000	991		ug/L		99	80 - 120
Iron	10000	9470		ug/L		95	80 - 120
Manganese	1000	957		ug/L		96	80 - 120
Selenium	1000	963		ug/L		96	80 - 120
Sodium	10000	9220		ug/L		92	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-304524/1-A

Matrix: Water

Analysis Batch: 304760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 304524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		11/21/17 14:00	11/22/17 13:27	1

Lab Sample ID: LCS 240-304524/2-A

Matrix: Water

Analysis Batch: 304760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 304524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	4.84		ug/L		97	80 - 120

Lab Sample ID: 240-88066-3 MS

Matrix: Water

Analysis Batch: 304760

Client Sample ID: MW-118WT_111317

Prep Type: Dissolved

Prep Batch: 304524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.20	U F1	1.00	0.933		ug/L		93	80 - 120

Lab Sample ID: 240-88066-3 MSD

Matrix: Water

Analysis Batch: 304760

Client Sample ID: MW-118WT_111317

Prep Type: Dissolved

Prep Batch: 304524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.20	U F1	1.00	0.789	F1	ug/L		79	80 - 120	17	20

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-303496/3

Matrix: Water

Analysis Batch: 303496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			11/15/17 08:51	1
Sulfate	1.0	U	1.0	0.35	mg/L			11/15/17 08:51	1

Lab Sample ID: LCS 240-303496/4

Matrix: Water

Analysis Batch: 303496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.8		mg/L		100	90 - 110
Sulfate	50.0	51.6		mg/L		103	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 240-304372/4

Matrix: Water

Analysis Batch: 304372

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			11/20/17 13:24	1

Lab Sample ID: LCS 240-304372/5

Matrix: Water

Analysis Batch: 304372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.631	0.661		mg/L		105	90 - 110

Lab Sample ID: MB 240-304781/4

Matrix: Water

Analysis Batch: 304781

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.031	mg/L			11/22/17 13:04	1

Lab Sample ID: LCS 240-304781/5

Matrix: Water

Analysis Batch: 304781

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.26	1.24		mg/L		98	90 - 110

Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-303601/2

Matrix: Water

Analysis Batch: 303601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	9.19	9.1		SU		99	97 - 103

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Lab Sample ID: LCS 240-303601/28
Matrix: Water
Analysis Batch: 303601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	9.19	9.1		SU		99	97 - 103

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 480-388297/1-A
Matrix: Water
Analysis Batch: 388432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 388297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Dissolved	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:19	1
Cyanide, Total	0.010	U	0.010	0.0050	mg/L		11/20/17 09:00	11/20/17 14:19	1

Lab Sample ID: LCS 480-388297/2-A
Matrix: Water
Analysis Batch: 388432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Dissolved	0.250	0.234		mg/L		94	90 - 110
Cyanide, Total	0.250	0.234		mg/L		94	90 - 110

Lab Sample ID: 240-88066-2 MS
Matrix: Water
Analysis Batch: 388432

Client Sample ID: MW-1118S1_111317
Prep Type: Total/NA
Prep Batch: 388297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Dissolved	0.010	U F1	0.100	0.0891	F1	mg/L		89	90 - 110
Cyanide, Total	0.010	U F1	0.100	0.0891	F1	mg/L		89	90 - 110

Lab Sample ID: 240-88066-1 DU
Matrix: Water
Analysis Batch: 388432

Client Sample ID: MW-117S1_111317
Prep Type: Total/NA
Prep Batch: 388297

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cyanide, Dissolved	0.010	U	0.010	U	mg/L		NC	15
Cyanide, Total	0.010	U	0.010	U	mg/L		NC	15

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-303887/1
Matrix: Water
Analysis Batch: 303887

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	7.8	mg/L			11/16/17 13:56	1

Lab Sample ID: LCS 240-303887/2
Matrix: Water
Analysis Batch: 303887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	518	532		mg/L		103	80 - 120

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 240-304939/7

Matrix: Water

Analysis Batch: 304939

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20	U	0.20	0.093	mg/L			11/24/17 12:08	1

Lab Sample ID: LCS 240-304939/8

Matrix: Water

Analysis Batch: 304939

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.76		mg/L		95	85 - 114

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Metals

Prep Batch: 303827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	3005A	
240-88066-2	MW-1118S1_111317	Dissolved	Water	3005A	
240-88066-3	MW-118WT_111317	Dissolved	Water	3005A	
MB 240-303827/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-303827/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 304469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	6020	303827
240-88066-2	MW-1118S1_111317	Dissolved	Water	6020	303827
240-88066-3	MW-118WT_111317	Dissolved	Water	6020	303827
MB 240-303827/1-A	Method Blank	Total Recoverable	Water	6020	303827
LCS 240-303827/2-A	Lab Control Sample	Total Recoverable	Water	6020	303827

Prep Batch: 304524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	7470A	
240-88066-2	MW-1118S1_111317	Dissolved	Water	7470A	
240-88066-3	MW-118WT_111317	Dissolved	Water	7470A	
MB 240-304524/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-304524/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-88066-3 MS	MW-118WT_111317	Dissolved	Water	7470A	
240-88066-3 MSD	MW-118WT_111317	Dissolved	Water	7470A	

Analysis Batch: 304760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	7470A	304524
240-88066-2	MW-1118S1_111317	Dissolved	Water	7470A	304524
240-88066-3	MW-118WT_111317	Dissolved	Water	7470A	304524
MB 240-304524/1-A	Method Blank	Total/NA	Water	7470A	304524
LCS 240-304524/2-A	Lab Control Sample	Total/NA	Water	7470A	304524
240-88066-3 MS	MW-118WT_111317	Dissolved	Water	7470A	304524
240-88066-3 MSD	MW-118WT_111317	Dissolved	Water	7470A	304524

General Chemistry

Analysis Batch: 303496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Total/NA	Water	300.0	
240-88066-1	MW-117S1_111317	Total/NA	Water	300.0	
240-88066-2	MW-1118S1_111317	Total/NA	Water	300.0	
240-88066-2	MW-1118S1_111317	Total/NA	Water	300.0	
240-88066-3	MW-118WT_111317	Total/NA	Water	300.0	
240-88066-3	MW-118WT_111317	Total/NA	Water	300.0	
MB 240-303496/3	Method Blank	Total/NA	Water	300.0	
LCS 240-303496/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 303601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Total/NA	Water	4500 H+ B-2000	

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

General Chemistry (Continued)

Analysis Batch: 303601 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-2	MW-1118S1_111317	Total/NA	Water	4500 H+ B-2000	
240-88066-3	MW-118WT_111317	Total/NA	Water	4500 H+ B-2000	
LCS 240-303601/2	Lab Control Sample	Total/NA	Water	4500 H+ B-2000	
LCS 240-303601/28	Lab Control Sample	Total/NA	Water	4500 H+ B-2000	

Analysis Batch: 303887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Total/NA	Water	SM 2540C	
240-88066-2	MW-1118S1_111317	Total/NA	Water	SM 2540C	
240-88066-3	MW-118WT_111317	Total/NA	Water	SM 2540C	
MB 240-303887/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-303887/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 304372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Total/NA	Water	353.2	
240-88066-3	MW-118WT_111317	Total/NA	Water	353.2	
MB 240-304372/4	Method Blank	Total/NA	Water	353.2	
LCS 240-304372/5	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 304781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-2	MW-1118S1_111317	Total/NA	Water	353.2	
MB 240-304781/4	Method Blank	Total/NA	Water	353.2	
LCS 240-304781/5	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 304939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Total/NA	Water	SM 4500 NH3 D	
240-88066-2	MW-1118S1_111317	Total/NA	Water	SM 4500 NH3 D	
240-88066-3	MW-118WT_111317	Total/NA	Water	SM 4500 NH3 D	
MB 240-304939/7	Method Blank	Total/NA	Water	SM 4500 NH3 D	
LCS 240-304939/8	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	

Prep Batch: 388297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	9012A	
240-88066-1	MW-117S1_111317	Total/NA	Water	9012A	
240-88066-2	MW-1118S1_111317	Dissolved	Water	9012A	
240-88066-2	MW-1118S1_111317	Total/NA	Water	9012A	
240-88066-3	MW-118WT_111317	Dissolved	Water	9012A	
240-88066-3	MW-118WT_111317	Total/NA	Water	9012A	
MB 480-388297/1-A	Method Blank	Total/NA	Water	9012A	
LCS 480-388297/2-A	Lab Control Sample	Total/NA	Water	9012A	
240-88066-2 MS	MW-1118S1_111317	Total/NA	Water	9012A	
240-88066-1 DU	MW-117S1_111317	Total/NA	Water	9012A	

Analysis Batch: 388432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-1	MW-117S1_111317	Dissolved	Water	9012A	388297
240-88066-1	MW-117S1_111317	Total/NA	Water	9012A	388297

TestAmerica Canton

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

General Chemistry (Continued)

Analysis Batch: 388432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-88066-2	MW-1118S1_111317	Dissolved	Water	9012A	388297
240-88066-2	MW-1118S1_111317	Total/NA	Water	9012A	388297
240-88066-3	MW-118WT_111317	Dissolved	Water	9012A	388297
240-88066-3	MW-118WT_111317	Total/NA	Water	9012A	388297
MB 480-388297/1-A	Method Blank	Total/NA	Water	9012A	388297
LCS 480-388297/2-A	Lab Control Sample	Total/NA	Water	9012A	388297
240-88066-2 MS	MW-1118S1_111317	Total/NA	Water	9012A	388297
240-88066-1 DU	MW-117S1_111317	Total/NA	Water	9012A	388297

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-117S1_111317

Lab Sample ID: 240-88066-1

Date Collected: 11/13/17 13:05

Matrix: Water

Date Received: 11/15/17 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			303827	11/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	304469	11/20/17 19:35	RKT	TAL CAN
Dissolved	Prep	7470A			304524	11/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	304760	11/22/17 12:31	DTN	TAL CAN
Total/NA	Analysis	300.0		1	303496	11/15/17 13:53	LKG	TAL CAN
Total/NA	Analysis	300.0		10	303496	11/15/17 17:15	LKG	TAL CAN
Total/NA	Analysis	353.2		1	304372	11/20/17 13:33	JESW	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	303601	11/15/17 14:08	MMM	TAL CAN
Dissolved	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Dissolved	Analysis	9012A		1	388432	11/20/17 14:30	MDL	TAL BUF
Total/NA	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Total/NA	Analysis	9012A		1	388432	11/20/17 14:23	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	303887	11/16/17 13:56	CJL	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		2	304939	11/24/17 12:23	JMB	TAL CAN

Client Sample ID: MW-1118S1_111317

Lab Sample ID: 240-88066-2

Date Collected: 11/13/17 14:00

Matrix: Water

Date Received: 11/15/17 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			303827	11/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	304469	11/20/17 19:48	RKT	TAL CAN
Dissolved	Prep	7470A			304524	11/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	304760	11/22/17 12:33	DTN	TAL CAN
Total/NA	Analysis	300.0		1	303496	11/15/17 13:13	LKG	TAL CAN
Total/NA	Analysis	300.0		10	303496	11/15/17 16:34	LKG	TAL CAN
Total/NA	Analysis	353.2		1	304781	11/22/17 13:09	JMB	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	303601	11/15/17 13:57	MMM	TAL CAN
Dissolved	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Dissolved	Analysis	9012A		1	388432	11/20/17 14:32	MDL	TAL BUF
Total/NA	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Total/NA	Analysis	9012A		1	388432	11/20/17 14:26	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	303887	11/16/17 13:56	CJL	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		2	304939	11/24/17 12:27	JMB	TAL CAN

Client Sample ID: MW-118WT_111317

Lab Sample ID: 240-88066-3

Date Collected: 11/13/17 15:10

Matrix: Water

Date Received: 11/15/17 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			303827	11/16/17 14:00	AJC	TAL CAN
Dissolved	Analysis	6020		1	304469	11/20/17 19:52	RKT	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Client Sample ID: MW-118WT_111317

Lab Sample ID: 240-88066-3

Date Collected: 11/13/17 15:10

Matrix: Water

Date Received: 11/15/17 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			304524	11/21/17 14:00	AJC	TAL CAN
Dissolved	Analysis	7470A		1	304760	11/22/17 13:33	DTN	TAL CAN
Total/NA	Analysis	300.0		1	303496	11/15/17 13:33	LKG	TAL CAN
Total/NA	Analysis	300.0		10	303496	11/15/17 16:55	LKG	TAL CAN
Total/NA	Analysis	353.2		1	304372	11/20/17 13:34	JESW	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	303601	11/15/17 14:02	MMM	TAL CAN
Dissolved	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Dissolved	Analysis	9012A		1	388432	11/20/17 14:36	MDL	TAL BUF
Total/NA	Prep	9012A			388297	11/20/17 09:00	CLT	TAL BUF
Total/NA	Analysis	9012A		1	388432	11/20/17 14:29	MDL	TAL BUF
Total/NA	Analysis	SM 2540C		1	303887	11/16/17 13:56	CJL	TAL CAN
Total/NA	Analysis	SM 4500 NH3 D		5	304939	11/24/17 12:31	JMB	TAL CAN

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17 *
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-18 *
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17 *
Minnesota	NELAP	5	039-999-348	12-31-17 *
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-18 *
West Virginia DEP	State Program	3	210	12-31-17 *

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-18
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	10026 (NY)	03-31-18
Georgia	State Program	4	956	03-31-18
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-18
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-18
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP	1	2973	09-11-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-18
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Racer Saginaw

TestAmerica Job ID: 240-88066-1

Laboratory: TestAmerica Buffalo (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	11-26-17 *
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

Company Name: ARCADIS Address: 28500 Green Dr City/State/Zip: Ann Arbor MI 48106 Phone: 313-964-1240 Fax: 313-964-1241 Project Name: Decon Services Site: 34500 Plank (GEL) MI PO# 30050096-2017.0010		Client Contact Tel/Fax: 313-964-1240/1241 Analysis Turnaround Time ☒ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Project Manager: Scott Cleaver Site Contact: Krista Pedron Lab Contact:		Date: 11/13/17 Carrier:		COC No: 1 of 1 COCs Sampler: Scott Arner For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:									
Sample Identification MW-11751-111317 MW-11851-111317 MW-118WT-111317		Sample Date 11/13/17 11/13/17 11/13/17		Sample Time 1305 1410 1510		Sample Type (C=Comp, G=Grab) G-4 G-4 G-4		Matrix G-4 G-4 G-4		# of Cont. 5 5 5		Filtered Sample (Y/N) 2N 2N 2N		Perform MS/MSD (Y/N) 2N 2N 2N		Sample Specific Notes:  240-88066 Chain of Custody	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.										☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown							
Special Instructions/QC Requirements & Comments: Samples kept for water use										☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months							
Custody Seal No.:		Relinquished by: Subaru Arner		Company: ARCADIS		Date/Time: 11/17/17 1400		Received by: Alexis Frick		Company: ARCADIS		Date/Time: 11/13/17 1900					
Relinquished by: Subaru Arner		Company: ARCADIS		Date/Time: 11/14/17 1125		Received by: John Hauler		Company: ARCADIS		Date/Time: 11/14/17 1135							
Relinquished by: John Hauler		Company: ARCADIS		Date/Time: 11-14-17 11253		Received in Laboratory by: John Hauler		Company: ARCADIS		Date/Time: 11/15/17 945							

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 880666

Client Accadis Site Name _____ Cooler unpacked by: [Signature]
 Cooler Received on 11/15/17 Opened on 11/15/17
 FedEx: 1st ☒ Grd Exp ☐ UPS ☐ FAS ☐ Clipper ☐ 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 °C) Observed Cooler Temp. 1.0 °C Corrected Cooler Temp. 1.0 °C

IR GUN #36 (CF +0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ☒ Yes ☐ No

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

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☐ Yes ☒ No ☐ NA

-Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No ☐ NA

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 all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No ☐ NA pH Strip Lot# HC697954

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 _____

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

17. 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)

18. 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 pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
BR-MW03	240-88038-I-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
BR-MW03	240-88038-J-1	Plastic 500ml - with Zn Acetate and	>9	_____	_____
BR-MW03	240-88038-K-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
BR-MW01	240-88038-I-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
BR-MW01	240-88038-J-3	Plastic 500ml - with Zn Acetate and	>9	_____	_____
BR-MW01	240-88038-K-3	Plastic 500ml - with Nitric Acid	<2	_____	_____

4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)				Sampler: Lab PM: Pohl, Denise Phone: E-Mail: denise.pohl@testamerica.com State of Origin: Michigan		COC No: 240-79574.1 Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc. Address: 10 Hazelwood Drive, Amherst, NY 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email: Project Name: RACER SMI, Green Pt Landfill Site:				Accreditations Required (See note): Job #: 240-88066-1		Carrier Tracking No(s): State of Origin: Michigan	
Due Date Requested: 11/28/2017 TAT Requested (days):				Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project #: 24006824 SSOW#:				Field Filtered Sample (Yes or No) ☒		Perform MS/MSD (Yes or No) ☒	
Sample Date				Sample Time		Sample Type (C=Comp, G=grab) Matrix (W=Water, S=solid, O=Other, B=Trace, A=Air)	
Sample Identification - Client ID (Lab ID)				Preservation Code:		Total Number of Containers	
MW-117S1_111317 (240-88066-1)				13:05 Eastern		2	
MW-1118S1_111317 (240-88066-2)				14:00 Eastern		2	
MW-118WT_111317 (240-88066-3)				15:10 Eastern		2	
Special Instructions/Note:				Special Instructions/Note:		Special Instructions/Note:	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification			
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:			
Relinquished by: gbs		Date: 11-15-17	
Relinquished by:		Date: 11-15-17	
Relinquished by:		Date: 11-15-17	
Custody Seals Intact: A Yes A No		Custody Seal No.:	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Return To Client		☐ Disposal By Lab	
Special Instructions/OC Requirements:		Archive For:	
Date:		Method of Shipment:	
Company: 240		Date/Time: 11/16/17 1000	
Company:		Date/Time:	
Company:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks: 41 3 9		Company:	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-88066-1

Login Number: 88066

List Number: 2

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

List Creation: 11/16/17 05:18 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ATTACHMENT 5

Field Sampling Logs



ARCADIS

Water Sampling Log

Project SMI Project No. B0064434 2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-11
 Site/Well No. MW-107WT Replicate No. _____ Code No. _____
 Weather Partly Cloudy, 70° Sampling Time: Begin 13:10 End 13:40

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 11.80
 Depth to Water (ft bmp) 9.63
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 2.17
 Casing Diameter/Type 2" PVC
 Gallons in Well .35
 Gallons Pumped/Bailed Prior to Sampling .55
 Sample Pump Intake Setting (ft bmp) 11.5
 begin 12:15 end 13:10
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 21.0
 SpC (mS/cm) 1005
 CND (mS/cm) 928
 Dissolved Oxygen (%) 8.9
 Dissolved Oxygen (mg/L) 7.9
 pH (s.u.) 7.23
 ORP (mV) 78.0
 Turbidity (NTU) 1.26
 Color Clear
 Odor No
 Appearance Clear
 Sampling Method Low Flow

Remarks Stick up well (check)
Did not meet minimum requirements

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Phosphorus</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Total As, Mn, Fe</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-107 WT

PROJ #: B0064434.2017

DATE: 8-30-17

LOC: Racer Saginaw SMI

[illegible]

ARCADIS

Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. MW 149 WT Replicate No. _____ Code No. _____
 Weather Clear, 70's Sampling Time: Begin 13:25 End 14:55

Evacuation Data

Field Parameters

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 20.35
 Depth to Water (ft bmp) 10.95
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 9.4
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.53
 Gallons Pumped/Bailed Prior to Sampling .85
 Sample Pump Intake Setting (ft bmp) 18.0
 begin 12:00 end 13:25
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Temperature (°C) 16.1
 SpC (mS/cm) 1221
 CND (mS/cm) 1014
 Dissolved Oxygen (%) 3.4
 Dissolved Oxygen (mg/L) 3.4
 pH (s.u.) 7.13
 ORP (mV) -82.8
 Turbidity (NTU) 1.92
 Color Clear
 Odor No
 Appearance Clear
 Sampling Method Low Flow

Remarks Stick up well (locked)
DID NOT MEET DRAINAGE REQUIREMENTS

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>PHOSPHORUS</u>	<u>500 ml</u>	<u>3</u>	<u>H2SO4</u>
<u>TOTAL ~~As~~, As, Tl</u>	<u>500 ml</u>	<u>3</u>	<u>HNO3</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-149 WT

DATE: 8-30-17

LOC: Racer Saginaw SMI

Total Depth of Well:

Depth To Water Before Purging:

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. MW-10751 Replicate No. _____ Code No. _____
 Weather P. Cloudy, 70's Sampling Time: Begin 14:30 End 14:31

Evacuation Data

Field Parameters

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 20.20
 Depth to Water (ft bmp) 10.07
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 10.13
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.65
 Gallons Pumped/Bailed
 Prior to Sampling .7
 Sample Pump Intake
 Setting (ft bmp) 18.0
 begin 13:53 end 14:30
 Pumping Rate (ml/min) 100 ml/min
 Evacuation Method Peristaltic

Temperature (°C) 17.0
 SpC (mS/cm) 1451
 CND (mS/cm) 1237
 Dissolved Oxygen (%) 5.1
 Dissolved Oxygen (mg/L) .52
 pH (s.u.) 7.34
 ORP (mV) -91.8
 Turbidity (NTU) 1.53
 Color CCGAN
 Odor NR
 Appearance CCGAN
 Sampling Method Low Flow
 Remarks Stick up well (check log)

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

Water Sampling Log

Document #ENFM006, Revision 03

YSI/LOW FLOW SAMPLING LOG

WELL: MW-107 S1

PROJ #: B0064434.2017

DATE: 6-30-11

LOC: Racer Saginaw SMI

Total Depth of Well:

Depth To Water Before Purging:

Depth To Water After Purging:

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. MW-108 52 Replicate No. _____ Code No. _____
 Weather P. cloudy, 70's Sampling Time: Begin 16:20 End 16:25

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 30.55
 Depth to Water (ft bmp) 9.68
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 20.87
 Casing Diameter/Type 2" PVC
 Gallons in Well 3.40
 Gallons Pumped/Bailed Prior to Sampling .8
 Sample Pump Intake Setting (ft bmp) 28.0
 begin 15:40 end 16:20
 Pumping Rate (ml/min) 100 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 16.5
 SpC (mS/cm) 769
 CND (mS/cm) 644
 Dissolved Oxygen (%) 3.6
 Dissolved Oxygen (mg/L) .36
 pH (s.u.) 7.61
 ORP (mV) -124.3
 Turbidity (NTU) 1.92
 Color CLEAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow
 Remarks Stick up well (locks)

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-108 52

PROJ #: B0064434.2017

DATE: 8-30-17

LOC: Racer Saginaw SMI

Total Depth of Well:

Depth To Water Before Purging:

Depth To Water After Purging:

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. MW-108 WT Replicate No. Code No.
 Weather P-cloudy, 70s Sampling Time: Begin 6:30 End 7:10 8-31-17

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 10.40
 Depth to Water (ft bmp) 9.15
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 1.25
 Casing Diameter/Type 2" pvc
 Gallons in Well .20
 Gallons Pumped/Bailed
 Prior to Sampling .20
 Sample Pump Intake
 Setting (ft bmp) 10.4
begin 15:30 end 16:10
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C)
 SpC (mS/cm)
 CND (mS/cm)
 Dissolved Oxygen (%)
 Dissolved Oxygen (mg/L)
 pH (s.u.)
 ORP (mV)
 Turbidity (NTU)
 Color CLEAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow

Remarks Stick up well (Leaker)
DUGGO DAY
SAMPLED ON 8-31-17

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>PHOSPHORUS</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>TOTAL MA</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>SUGCS</u>	<u>1 L</u>	<u>2</u>	<u>NONE</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-108 WT

PROJ #: B0064434.2017

DATE: B 8-30-17

LOC: Racer Saginaw SMI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-31-17
 Site/Well No. MW-110 WTR Replicate No. _____ Code No. _____
 Weather Cloudy 60° Sampling Time: Begin 9:10 End 11:10

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 14.00
 Depth to Water (ft bmp) 10.55
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 3.45
 Casing Diameter/Type 2" PVC
 Gallons in Well .56
 Gallons Pumped/Bailed Prior to Sampling .6
 Sample Pump Intake Setting (ft bmp) 13.5
 begin 8:10 end 9:10
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 16.0
 SpC (mS/cm) 1366
 CND (mS/cm) 1133
 Dissolved Oxygen (%) 52
 Dissolved Oxygen (mg/L) .51
 pH (s.u.) 6.67
 ORP (mV) -100.1
 Turbidity (NTU) 1.90
 Color Clear
 Odor None
 Appearance Clear
 Sampling Method Low Flow

Remarks Stick up well (leaked)

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Phosphorus</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Total Mn, TS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>TDS</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>Total PCBs</u>	<u>1 L</u>	<u>2</u>	<u>NONE</u>
<u>Dissolved PCBs</u>	<u>1 L</u>	<u>2</u>	<u>NONE</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-110 WTR

DATE: 07-31-11

LOC: Racer Saginaw SMI

Document #ENFM005, Revision 03

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-31-17
 Site/Well No. MW-111WT Replicate No. _____ Code No. _____
 Weather Cloudy 60° Sampling Time: Begin 19:00 End 11:50

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 12.90
 Depth to Water (ft bmp) 8.27
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 4.63
 Casing Diameter/Type 2" PVC
 Gallons in Well .75
 Gallons Pumped/Bailed Prior to Sampling .85
 Sample Pump Intake Setting (ft bmp) 12.0
 begin 8:30 end 10:00
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 18.8
 SpC (mS/cm) 860
 CND (mS/cm) 762
 Dissolved Oxygen (%) 5.1
 Dissolved Oxygen (mg/L) .47
 pH (s.u.) 7.25
 ORP (mV) -669
 Turbidity (NTU) 1.85
 Color CCGAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow

Remarks Stick up well (locked)
DID NOT MEET DRAGONER REQUIREMENTS

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Phosphorus</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>Total Tr, Mn</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>Total PCB's</u>	<u>1 l</u>	<u>2</u>	<u>NONE</u>
<u>Dissolved PCB's</u>	<u>1 l</u>	<u>2</u>	<u>NONE</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal/Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-111 WT

DATE: 8-31-17

LOC: Racer Saginaw SMI

Document #ENFM005, Revision 03

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-31-17
 Site/Well No. MW-185WT Replicate No. _____ Code No. _____
 Weather P. cloudy, 70's Sampling Time: Begin 13:10 End 15:00

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 10.45
 Depth to Water (ft bmp) 5.90
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 4.55
 Casing Diameter/Type 2" pvc
 Gallons in Well .74
 Gallons Pumped/Bailed Prior to Sampling .55
 Sample Pump Intake Setting (ft bmp) 90
 begin 12:15 end 13:10
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 20.9
 SpC (mS/cm) 453.7
 CND (mS/cm) 417.3
 Dissolved Oxygen (%) 7.8
 Dissolved Oxygen (mg/L) .70
 pH (s.u.) 7.94
 ORP (mV) -6.6
 Turbidity (NTU) 1.89
 Color clean
 Odor NO
 Appearance clean
 Sampling Method Low Flow
 Remarks stick up well (leak)

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>PHOSPHORUS</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>
<u>TOTAL Mn, T3</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>TOTAL PCBs</u>	<u>1 L</u>	<u>2</u>	<u>NONE</u>
<u>DISSOLVED PCBs</u>	<u>1 L</u>	<u>2</u>	<u>NONE</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-185 WT

DATE: 8-31-17

LOC: Racer Saginaw SMI

Document #ENFM005, Revision 03

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-31-17
 Site/Well No. MW-186WT Replicate No. DUP-04/mjml Code No. _____
 Weather P. Cloudy, 70s Sampling Time: Begin 14:15 End 19:25

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 21.25
 Depth to Water (ft bmp) 7.77
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 13.48
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.19
 Gallons Pumped/Bailed Prior to Sampling .95
 Sample Pump Intake Setting (ft bmp) 19.0
 begin 12:30 end 14:15
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 20.6
 SpC (mS/cm) 579
 CND (mS/cm) 529
 Dissolved Oxygen (%) 3.9
 Dissolved Oxygen (mg/L) .35
 pH (s.u.) 7.36
 ORP (mV) -120.1
 Turbidity (NTU) 1.97
 Color Clear
 Odor NO
 Appearance Clear
 Sampling Method Low Flow

Remarks Stick up well (locked)
DUP-04/mjml
DID NOT MEET STANDARD REQUIREMENTS

Constituents Sampled	Container Description	Number	Preservative
<u>AMMONIA</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>
<u>PHOSPHORUS</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>
<u>TOTAL Mn, TSS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>TOTAL PCBs</u>	<u>1 L</u>	<u>6</u>	<u>NONE</u> msl/0.1
<u>DISSOLVED PCBs</u>	<u>1 L</u>	<u>6</u>	<u>NONE</u> msl/0.1

Sampling Personnel Billy J Coburn

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-186WT

DATE: 8-31-17

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-31-17
 Site/Well No. MW-114WT Replicate No. _____ Code No. _____
 Weather P. cloudy, 70° Sampling Time: Begin 16:55 End 18:45

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 10.95
 Depth to Water (ft bmp) 7.54
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 3.41
 Casing Diameter/Type 2" pvc
 Gallons in Well .55
 Gallons Pumped/Bailed Prior to Sampling .55
 Sample Pump Intake Setting (ft bmp) 9.0
 begin 16:00 end 16:55
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 19.7
 SpC (mS/cm) 590
 CND (mS/cm) 527
 Dissolved Oxygen (%) 4.4
 Dissolved Oxygen (mg/L) .41
 pH (s.u.) 7.11
 ORP (mV) -146.1
 Turbidity (NTU) 1.96
 Color clean
 Odor NO
 Appearance clean
 Sampling Method Low Flow
 Remarks Stuck up well (clogged)

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>
<u>Phosphorus</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>
<u>Total Mn, T₂</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>Total PCB's</u>	<u>1 l</u>	<u>2</u>	<u>NONE</u>
<u>Dissolved PCB's</u>	<u>1 l</u>	<u>2</u>	<u>NONE</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-3/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

WELL: MW-114 WT

PROJ #: B0064434.2017

DATE: 8-31-17

LOC: Racer Saginaw SMI

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Water Sampling Log

Project SMI Project No. B0064434.2017 Page 1 of 2
 Site Location Racer Saginaw Date 9-1-17
 Site/Well No. MW-114 S2 Replicate No. Dup-05 / msm50 Code No.
 Weather Sampling Time: Begin 7:40 End 8:00

Evacuation Data

Field Parameters

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 30.85
 Depth to Water (ft bmp) 9.32
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 21.53
 Casing Diameter/Type 2" pvc
 Gallons in Well 3.50
 Gallons Pumped/Bailed Prior to Sampling .8
 Sample Pump Intake Setting (ft bmp) 28.0
 begin 7:00 end 7:40
 Pumping Rate (ml/min) 100 ml/min
 Evacuation Method Peristaltic

Temperature (°C) 16.1
 SpC (mS/cm) 568.1
 CND (mS/cm) 483.3
 Dissolved Oxygen (%) 5.9
 Dissolved Oxygen (mg/L) .56
 pH (s.u.) 7.33
 ORP (mV) -119.2
 Turbidity (NTU) 1.95
 Color clean
 Odor no
 Appearance clean
 Sampling Method Low Flow

Remarks Stuck up well (locked)
msm50 / Dup-05

Constituents Sampled	Container Description	Number	Preservative
<u>Ammonia</u>	<u>500 ml</u>	<u>3</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-11452

DATE: 9-1-17

[illegible]

Calibration Work Sheet

Date of Calibration: 8/28

Technician: ML

Unit: ProPlus

Serial Number: 11 D 100811

Record battery voltage: _____

Record Calibration Values

Record the following diagnostic numbers after/during calibration.

Conductivity cell constant _____ Range 5.0 + .5

Conductivity 1038 1000

pH MV Buffer 7 -41.1 Range 0 MV + 50 MV

pH 7 6.98 7.02

pH MV Buffer 4 123.3 Range +177 from 7 buffer MV

pH 4 4.11 4.00

pH MV Buffer 10 -218.2 Range -177 from 1 buffer MV

pH 10 10.07 10.07

NOTE: Span between pH 4, 7 and 10 millivolt numbers should be ≈ 165 to 180 MV

ORP _____ 244

DO _____ 100%

NOTE: Check response time in buffer change & tap water

Turbidity 0 _____

Turbidity 100 _____

Turbidity 50 _____

Notes:

____ACCEPT ____REJECT

changed DO Solution

Calibration Work Sheet

Date of Calibration: 8/25/17

Technician: Melody

Unit: Pro Plus

Serial Number: 11D100810

Record battery voltage: _____

Record Calibration Values

Record the following diagnostic numbers after/during calibration.

Conductivity cell constant _____ Range 5.0 + -5
 pH MV Buffer 7 -13.9 Range 0 MV + 50 MV
 pH MV Buffer 4 144.4 Range +177 from 7 buffer MV
 pH MV Buffer 10 -193.5 Range -177 from 1 buffer MV

NOTE: Span between pH 4, 7 and 10 millivolt numbers should be = 165 to 180 MV

NOTE: Check response time in buffer change & tap water

	Actual	After Calibration
Conductivity	_____	<u>1000</u>
pH 7	<u>6.78</u>	<u>7.03</u>
pH 4	<u>3.97</u>	<u>4.00</u>
pH 10	<u>9.98</u>	<u>10.00</u>
ORP	_____	<u>237.5</u>
DO	_____	<u>100%</u>
Turbidity 0	_____	_____
Turbidity 100	_____	_____
Turbidity 50	_____	_____

Notes: _____

____ACCEPT____REJECT

ARCADIS

Water Sampling Log

Project GPL Project No. 80050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-90 Replicate No. Code No.
 Weather Cloudy, Fog 60% Sampling Time: Begin 8:35 End 9:20

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 50.20
 Depth to Water (ft bmp) 2.96
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 47.24
 Casing Diameter/Type 2" PVC
 Gallons in Well 7.70
 Gallons Pumped/Bailed Prior to Sampling .55
 Sample Pump Intake Setting (ft bmp) 47.0
 begin 7:40 end 8:35
 Pumping Rate (ml/min) 50 ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 17.8
 SpC (mS/cm) 2.54
 CND (mS/cm) 2.14
 Dissolved Oxygen (%) 8.4
 Dissolved Oxygen (mg/L) 8.2
 pH (s.u.) 7.00
 ORP (mV) 133.4
 Turbidity (NTU) 1.07
 Color CLEAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow
 Remarks Stick up well (checked)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>DISSOLVED TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TO5, PH, SULFATE, CHLORIDE, NITRATE, NITRITE</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-90

PROJ #: B0050096.2017

DATE: 8-29-17

LOC: Racer Saginaw GPL

Total Depth of Well:								
Depth To Water Before Purging:								
Depth To Water After Purging:								

ARCADIS

Water Sampling Log

Project GPL Project No. 80050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-9 CAVG Replicate No. Code No.
 Weather Cloudy, Fog, 60s Sampling Time: Begin 8:50 End 9:35

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 28.30
 Depth to Water (ft bmp) 5.75
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 22.55
 Casing Diameter/Type 2" p.c.
 Gallons in Well 3.67
 Gallons Pumped/Bailed Prior to Sampling .65
 Sample Pump Intake Setting (ft bmp) 20.0
 begin 7:45 end 8:50
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 17.0
 SpC (mS/cm) 1.11
 CND (mS/cm) 950
 Dissolved Oxygen (%) 3.4
 Dissolved Oxygen (mg/L) .34
 pH (s.u.) 7.33
 ORP (mV) -99.4
 Turbidity (NTU) 1.71
 Color CCAN
 Odor NO
 Appearance CCAN
 Sampling Method Low Flow
 Remarks Stick up well (Lakeo)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>DISSOLVED TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TDS, PHOSPHATE, CHLORIDE, NITRATE, NITRITE</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>Ammonia</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-9 CANG

PROJ #: B0050096.2017

DATE: 8.29.17

LOC: Racer Saginaw GPL

[illegible]

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-9BR Replicate No. Code No.
 Weather M. Cloudy, Humid Sampling Time: Begin 11:05 End 11:50

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 3410
 Depth to Water (ft bmp) 5.98
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 28.12
 Casing Diameter/Type 2" PVC
 Gallons in Well 4.58
 Gallons Pumped/Bailed
 Prior to Sampling .65
 Sample Pump Intake
 Setting (ft bmp) 32.0
 begin 10:00 end 11:05
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 17.3
 SpC (mS/cm) 1871
 CND (mS/cm) 1595
 Dissolved Oxygen (%) 14.8
 Dissolved Oxygen (mg/L) 1.42
 pH (s.u.) 7.06
 ORP (mV) -168.3
 Turbidity (NTU) 1.64
 Color clean
 Odor NO
 Appearance Clean
 Sampling Method Low Flow

Remarks Stuck up well (locked)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>DISSOLVED TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TDS, PH, SULFATE</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>AMMONIA</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-3/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

PAGE 2 OF 2

PROJ #: B0050096.2017

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-9 AR Replicate No. _____ Code No. _____
 Weather P. Cloudy, Humid Sampling Time: Begin 11:33 End 12:20

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 16.05
 Depth to Water (ft bmp) 5.65
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 10.4
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.69
 Gallons Pumped/Bailed Prior to Sampling .8
 Sample Pump Intake Setting (ft bmp) 13.5
 begin 10:05 end 11:33
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 19.7
 SpC (mS/cm) 908
 CND (mS/cm) 816
 Dissolved Oxygen (%) 3.1
 Dissolved Oxygen (mg/L) .28
 pH (s.u.) 7.33
 ORP (mV) -55.5
 Turbidity (NTU) 1.09
 Color clean
 Odor no
 Appearance clean
 Sampling Method Low Flow

Remarks Stuck up well (locked)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>DISSOLVABLE TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TDS, PH, SULFATE, CHLORIDE, NITRATE, NITRUS</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>AMMONIA</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-9 AR

DATE: 8-29-17

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ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-40 Replicate No. Code No.
 Weather P. Cloudy, Humid Sampling Time: Begin 14:00 End 14:45

Evacuation Data

Field Parameters

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 47.20
 Depth to Water (ft bmp) 1.88
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 45.32
 Casing Diameter/Type 2" pvc
 Gallons in Well 7.38
 Gallons Pumped/Bailed Prior to Sampling 65
 Sample Pump Intake Setting (ft bmp) 45.0
 begin 12:55 end 14:00
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Temperature (°C) 24.2
 SpC (mS/cm) 4540
 CND (mS/cm) 4451
 Dissolved Oxygen (%) 11.3
 Dissolved Oxygen (mg/L) .94
 pH (s.u.) 7.18
 ORP (mV) 117.2
 Turbidity (NTU) .38
 Color CLEAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow

Remarks Stuck up well (locked)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>DISSOLVED TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TOS, D4, SULFATE</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>CHLORIDE, NITRATE, NITRILE</u>	<u>500 ml</u>	<u>1</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-40

DATE: 8-29-17

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096 2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-4 CAVG Replicate No. _____ Code No. _____
 Weather P. Cloudy, Humid Sampling Time: Begin 15:05 End 15:50

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 22.15
 Depth to Water (ft bmp) 4.25
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 17.9
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.91
 Gallons Pumped/Bailed Prior to Sampling 1.25
 Sample Pump Intake Setting (ft bmp) 20.0
 begin 13:40 end 15:05
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 25.8
 SpC (mS/cm) 896
 CND (mS/cm) 910
 Dissolved Oxygen (%) 2.0
 Dissolved Oxygen (mg/L) ~~2.0~~ 1.6
 pH (s.u.) 7.26
 ORP (mV) -45.2
 Turbidity (NTU) 1.89
 Color CLEAR
 Odor NS
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks Stick up well (caked)

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>DISSOLVED TAL METALS</u>	<u>500 ml</u>	<u>1</u>	<u>HNO₃</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>TDS, PH, SULFATE, CHLORIDE, NITRATE, NITRITE</u>	<u>500 ml</u>	<u>1</u>	<u>NONE</u>
<u>AMMONIA</u>	<u>500 ml</u>	<u>1</u>	<u>H₂SO₄</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/2" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-4 CAVG

DATE: 8-29-17

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ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. MW-183WT Replicate No. _____ Code No. _____
 Weather P. Cloudy, Humid Sampling Time: Begin 17:00 End 19:30

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 18.40
 Depth to Water (ft bmp) 7.20
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 11.20
 Casing Diameter/Type 2" pvc
 Gallons in Well 1.82
 Gallons Pumped/Bailed Prior to Sampling .6
 Sample Pump Intake Setting (ft bmp) 16.0
 begin 16:00 end 17:00
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 20.5
 SpC (mS/cm) 728
 CND (mS/cm) 665
 Dissolved Oxygen (%) 12.1
 Dissolved Oxygen (mg/L) 1.09
 pH (s.u.) 6.94
 ORP (mV) -91.4
 Turbidity (NTU) 1.74
 Color CCGN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow

Remarks Stick up well (locked)

DIDN'T MEET REGULATORY REQUIREMENTS
DUP-01 / M5MSD

Constituents Sampled	Container Description	Number	Preservative
<u>TAL METALS *</u>	<u>500 ml</u>	<u>3</u>	<u>HNO3</u>
<u>DISSOLVED TAL METAL</u>	<u>500 ml</u>	<u>1</u>	<u>HNO3</u>
<u>CYANIDE</u>	<u>125 ml</u>	<u>1</u>	<u>NaOH</u>
<u>DISSOLVED CYANIDE *</u>	<u>125 ml</u>	<u>3</u>	<u>NaOH</u>
<u>TDS, PH, SULFATE</u>	<u>500 ml</u>	<u>3</u>	<u>NONE</u>
<u>CHLORIDE, NITRATE, NITRITE *</u>	<u>500 ml</u>	<u>3</u>	<u>H2SO4</u>
<u>AMMONIA *</u>	<u>500 ml</u>	<u>3</u>	<u>H2SO4</u>

Sampling Personnel Billy J Cobern

* DUP-01

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: MW-183WT

DATE: 8-29-17

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-29-17
 Site/Well No. X-4 AR Replicate No. Code No.
 Weather Partly Cloudy, Humid Sampling Time: Begin End

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 7.80
 Depth to Water (ft bmp) 4.60
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 3.20
 Casing Diameter/Type 2" PVC
 Gallons in Well .52
 Gallons Pumped/Bailed
 Prior to Sampling .5
 Sample Pump Intake
 Setting (ft bmp) 7.5
begin 14:50 end 15:40
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C)
 SpC (mS/cm)
 CND (mS/cm)
 Dissolved Oxygen (%)
 Dissolved Oxygen (mg/L)
 pH (s.u.)
 ORP (mV)
 Turbidity (NTU)
 Color CLEAN
 Odor NO
 Appearance CLEAN
 Sampling Method Low Flow

Remarks Stick up well (leached)
pumped dry

Constituents Sampled	Container Description	Number	Preservative

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: X-4 AR

DATE: 8-29-17

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. TW 242 Replicate No. _____ Code No. _____
 Weather Foggy, 50's Sampling Time: Begin 9:00 End 9:05

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 10.15
 Depth to Water (ft bmp) 7.49
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 2.66
 Casing Diameter/Type 2" pvc
 Gallons in Well .43
 Gallons Pumped/Bailed Prior to Sampling 1.2
 Sample Pump Intake Setting (ft bmp) 9.5
 begin 8:05 end 9:00
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 17.1
 SpC (mS/cm) 1200
 CND (mS/cm) 1019
 Dissolved Oxygen (%) 4.7
 Dissolved Oxygen (mg/L) .45
 pH (s.u.) 7.01
 ORP (mV) -96.1
 Turbidity (NTU) 9.02
 Color clean
 Odor no
 Appearance clean
 Sampling Method Low Flow
 Remarks Stick up near (no lock)

Constituents Sampled	Container Description	Number	Preservative
<u>TCC VOC's</u>	<u>40 ml vial</u>	<u>3</u>	<u>HCl</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: Tw-242

DATE: 8-30-17

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project GPL Project No. B0050096.2017 Page 1 of 2
 Site Location Racer Saginaw Date 8-30-17
 Site/Well No. TWW-1 Replicate No. Dup-02 Code No.
 Weather Foggy, 60° Sampling Time: Begin 10:10 End 10:15

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) N/A
 Land Surface Elevation (ft) N/A
 Sounded Well Depth (ft bmp) 10.80
 Depth to Water (ft bmp) 4.52
 Water-Level Elevation (ft) N/A
 Water Column in Well (ft) 6.28
 Casing Diameter/Type 2" pvc
 Gallons in Well 1.02
 Gallons Pumped/Bailed Prior to Sampling 1.0
 Sample Pump Intake Setting (ft bmp) 7.5
 begin 9:20 end 10:10
 Pumping Rate (ml/min) ml/min
 Evacuation Method Peristaltic

Field Parameters

Temperature (°C) 19.1
 SpC (mS/cm) 1933
 CND (mS/cm) 1712
 Dissolved Oxygen (%) 7.7
 Dissolved Oxygen (mg/L) .71
 pH (s.u.) 7.22
 ORP (mV) -52.6
 Turbidity (NTU) 8.43
 Color CCGN
 Odor nr
 Appearance CCGN
 Sampling Method Low Flow

Remarks Stick up well (nr work)
Dup-02

Constituents Sampled	Container Description	Number	Preservative
<u>TCL VOCs</u>	<u>40 ml vca</u>	<u>3</u>	<u>Me/</u>

Sampling Personnel Billy J Cobern

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

WELL: TWW-1

DATE: 8.30.17

LOC: Racer Saginaw GPL

Document #ENFM005, Revision 03

Calibration Work Sheet

Date of Calibration: 8/2/08

Technician: ML

Unit: ProPlus

Serial Number: 11 D 100811

Record battery voltage: _____

Record Calibration Values

Actual After Calibration

Record the following diagnostic numbers after/during calibration.

Conductivity cell constant _____ Range 5.0 + .5

Conductivity 1038 1000

pH MV Buffer 7 -41.1 Range 0 MV + 50 MV

pH 7 6.98 7.02

pH MV Buffer 4 123.3 Range +177 from 7 buffer MV

pH 4 4.11 4.02

pH MV Buffer 10 -218.2 Range -177 from 1 buffer MV

pH 10 10.07 10.07

NOTE: Span between pH 4, 7 and 10 millivolt numbers should be = 165 to 180 MV

ORP _____ 244

DO _____ 100%

NOTE: Check response time in buffer change & tap water.

Turbidity 0 _____

Turbidity 100 _____

Turbidity 50 _____

Notes:

____ACCEPT ____REJECT

changed DO Solution

Calibration Work Sheet

Date of Calibration: 8/25/17

Technician: Melody

Unit: Pro Plus

Serial Number: 11D100810

Record battery voltage: _____

Record Calibration Values

Record the following diagnostic numbers after/during calibration.

Conductivity cell constant _____ Range 5.0 + .5

Conductivity _____ 1000

pH MV Buffer 7 -13.9 Range 0 MV + 50 MV

pH 7 6.78 7.03

pH MV Buffer 4 144.4 Range +177 from 7 buffer MV

pH 4 3.97 4.00

pH MV Buffer 10 -193.5 Range -177 from 1 buffer MV

pH 10 9.98 10.00

NOTE: Span between pH 4, 7 and 10 millivolt numbers should be = 165 to 180 MV

ORP _____ 237.5

DO _____ 10.00

NOTE: Check response time in buffer change & tap water

Turbidity 0 _____

Turbidity 100 _____

Turbidity 50 _____

Notes:

____ACCEPT ____REJECT

ATTACHMENT 6

SMI and Green Point Landfill Site Inspection Forms



SMI TYPE III LANDFILL INSPECTION FORM

Inspection Date:

8-28-17

Time Arrived:

9:00 AM

Time Departed:

PM

Inspectors:

Billy J. Coburn

Weather Conditions

Rain 1 YES
Snow NO
Temperature 60°-75°
Barometric Pressure

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Access Road	☒		
• Erosion/Washout/Settlement	☒		
• Sufficient Gravel	☒		
B. Site Security	☒		
• Access Gates	☒		
• Fence Integrity	☒		
• Fence Straight	☒		
• Post Condition	☒		
• Signs	☒		
• Locks	☒		
C. Vegetative Cover	☒		
• Bare Spots	☒		
• Stressed Vegetation	☒		
• Cracks	☒		
• Burrowing Animals	☒		
• Erosion	☒		
• Settlement	☒		

SMI TYPE III LANDFILL INSPECTION FORM

Inspection Date:

8-28-17

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
• Water Ponding	✓		
• Protruding Objects	✓		
• Undesirable Growth		✓	3 SHROPS ON THE NORTH LANDFILL 1 SHROPS ON THE SOUTH LANDFILL
• Slope Movement	✓		
D. Leachate Breakouts	✓		
• Area Locations	✓		
• Entering Surface Water	✓		
E. Surface Water Drainage System	✓		
• Exposed Clay Barrier	✓		
• Drainage Swales	✓		
• Culverts	✓		
• Downchutes	✓		
• Primary Sedimentation Basin	✓		
• Bank Erosion	✓		
• Silt Levels	✓		
• Berms	✓		
F. Overall Site Appearance	✓		

SMI River Berm Area INSPECTION FORM

Inspection Date: 8-28-17

Time Arrived: 9:00 PM AM PM Time Departed: _____ PM

Inspectors: Billy J Cohen

Weather Conditions
Rain YES
Snow NO
Temperature 69°F - 70°F
Barometric Pressure _____

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Access Road	☒		
• Erosion/Washout/Settlement	☒		
• Sufficient Gravel (at least 6 inches on the road)	☒		
B. Site Security	☒		
• Access Gates	☒		
• Fence Integrity	☒		
• Fence Straight	☒		
• Post Condition	☒		
• Signs	☒		
• Locks	☒		
C. Vegetative Cover	☒		
• Bare Spots	☒		
• Erosion	☒		

SMI Plant Inspection Form
(Former CTC Parking Lot, I27.7, Melting Department, or Parking Lot North of Buffer Basin)
INSPECTION FORM

Inspection Date: 8.28.17

Plant Area: _____

Time Arrived: 9:00 PM AM PM Time Departed: _____ PM

Inspectors: Brian + Coe

Weather Conditions
Rain YES
Snow NO
Temperature 60° - 70°
Barometric Pressure _____

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Security	☒		
• Access Gates	☒		
• Fence Integrity	☒		
• Fence Straight	☒		
• Post Condition	☒		
• Signs	☒		
• Locks	☒		
B. Vegetative Cover or Paved Cover	☒		
• Bare Spots	☒		
• Erosion	☒		

Former Railyard Area INSPECTION FORM

Inspection Date:

8-28-17

Time Arrived:

9:00 PM

Time Departed:

PM

Inspectors:

Bryon Cusack

Weather Conditions

Rain

YES

Snow

NO

Temperature

65.5 - 70.5

Barometric Pressure

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Access Road	✓		
• Erosion/Washout/Settlement	✓		
• Sufficient Gravel (at least 6 inches on the road)	✓		
B. Site Security	✓		
• Access Gates	✓		
• Fence Integrity	✓		
• Fence Straight	✓		
• Post Condition	✓		
• Signs	✓		
• Locks	✓		
C. Vegetative Cover	✓		
• Bare Spots	✓		
• Erosion	✓		

GREEN POINT LANDFILL POST-CLOSURE INSPECTION FORM

Inspection Date:

8-28-17

Time Arrived:

9:00 PM

Time Departed:

PM

Inspectors:

Billy J. Coburn

Weather Conditions

Rain

YES

Snow

NO

Temperature

60° - 70°

Barometric Pressure

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
A. Site Access Road	☒		
• Erosion/Washout/Settlement	☒		
• Sufficient Gravel	☒		
B. Site Security	☒		
• Access Gates	☒		
• Fence Integrity	☒		
• Fence Straight	☒		
• Post Condition	☒		
• Signs	☒		
• Locks	☒		
C. Vegetative Cover	☒		
• Bare Spots	☒		
• Stressed Vegetation	☒		
• Cracks	☒		
• Burrowing Animals	☒		
• Erosion	☒		
• Settlement	☒		

GREEN POINT LANDFILL POST-CLOSURE INSPECTION FORM

8-28-17

Inspection Date:

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
• Water Ponding	✓		
• Protruding Objects	✓		
• Undesirable Growth	✓		
• Slope Movement	✓		
D. Leachate Breakouts	✓		
• Area Locations	✓		
• Entering Surface Water	✓		
E. Surface Water Drainage System	✓		
• Exposed Clay Barrier	✓		
• Drainage Swales	✓		
• Culverts	✓		
• Downchutes	✓		
• Primary Sedimentation Basin	✓		
• Bank Erosion	✓		
• Silt Levels	✓		
• Berms	✓		
F. Ground-Water Monitoring System	✓		
• Casing	✓		
• Locks	✓		
• Bollards	✓		
• Surface Seal	✓		

**GREEN POINT LANDFILL
POST-CLOSURE INSPECTION FORM**

Inspection Date: 8.28.17

Inspection Items	Site/Area Condition		Comments
	Satisfactory	Unsatisfactory	
G. Surface Water Monitoring System	✓		
H. Gas Management System	✓		
• Vent Condition	✓		
• Detectable Odor	✓		
• Surface Seal	✓		
I. Overall Site Appearance	✓		
J. Wetlands	✓		