



January 14, 2016

Reference No. 012607

Distributed via E mail

Mr. Greg Rudloff
U.S. Environmental Protection Agency, Region 5
Land and Chemicals Division
77 West Jackson Blvd., LU 9J
Chicago, Illinois 60604 3590

Dear Mr. Rudloff:

**Re: 2nd 2015 Semi Annual Progress Report
Performance Based Administrative Order on Consent
Docket Number RCRA 05 2011 0025
13000 Eckles Road Site, Livonia, Michigan
USEPA ID No. MID 005 356 621**

In accordance with the Performance Based Administrative Order on Consent between the U.S. Environmental Protection Agency Region 5 (USEPA) and Revitalizing Auto Communities Environmental Response Trust (RACER), please find the attached progress report for the 2nd half of 2015 (July 1, 2015 through December 31, 2015).

Please contact Grant Trigger or Jeff Crum (regarding soil vapor related matters), or Dave Favero or myself (regarding system operation and groundwater matters) if you would like to discuss further.
Thank you.

Yours truly,

GHD

A handwritten signature in blue ink, appearing to read "C. J. Meincke", is written over a horizontal line.

Christopher J. Meincke, P.E.

KTA/17/ds/Det.

Attachment A: 2nd Semi Annual 2015 Progress Report

cc: Grant Trigger, RACER
Dave Favero, RACER
Richard Conforti, MDEQ
Jeff Crum, Hamp, Mathews & Associates
Livonia Civic Center Library

ATTACHMENT A
2nd SEMI-ANNUAL 2015 PROGRESS REPORT
PERFORMANCE-BASED ADMINISTRATIVE ORDER ON CONSENT
13000 ECKLES ROAD SITE, LIVONIA, MICHIGAN
JULY 1, 2015 TO DECEMBER 31, 2015

1. Description of Work Completed

- Continued operation of the Area 1 French Drain Collection Trench and Groundwater Treatment system.
- Submitted the 1st Semi-Annual 2015 Progress Report dated July 15, 2015 to USEPA.
- Sold an approximately 101-acre parcel to the Livonia West Commerce Center, LLC on August 18, 2015.
- Terminated the 2007 Declaration of Restrictive and recorded a new Declaration of Restrictive Covenant dated August 18, 2015, both of which were recorded with the Wayne County Register of Deeds on August 26, 2015. Copies are provided in Exhibit 1.
- Submitted a Semi-Annual Report for Special Discharge Permit SD6-94508 dated September 23, 2015 to the City of Detroit Water and Sewerage Department for the period March 2015 through August 2015.
- Collected groundwater samples from Area 1 and AOI 31 monitoring wells on September 21 through 25, 2015 as part of the approved Groundwater Monitoring Plan (GMP) activities.
- Performed groundwater elevation and LNAPL thickness measurement activities at AOI 21 monitoring wells on September 25, 2015.
- Collected post-injection groundwater samples (1-week, 3-week, 3-month and 6-month) from Area 1 monitoring wells for the Expanded Pilot Study in July, August, September, November and December 2015.
- Abandoned fourteen monitoring wells (MW-33-7S, MW-33-9S, MW-S-10S, MW-S-4S, MW-A1-16S, MW-21-1S, MW-21-2S, MW-21-3S, MW-21-4S, MW-21-5S, MW-21-6S, MW-24-1S, MW-24-2S, and MW-A2-2S) and repaired MW-104S on October 29 and October 30, 2015, as approved by USEPA on September 25, 2015.
- Completed a meeting/conference call with USEPA to discuss Corrective Action O&M activities, Area 1 remedial alternatives, the results of the Area 1 Pilot Study, and the 2016 scope and budget request on October 13, 2015.
- Submitted 2016 Annual Environmental Budget Request to USEPA on November 9, 2015 and received USEPA approval on December 1, 2015.
- Continued evaluation of potential cost savings and remedial alternatives to decrease the long-term OM&M costs associated with the Area 1 Groundwater Collection and Treatment System.

- Continued operation and maintenance of vapor mitigation system at 37780 Grantland Avenue (Home 7).
- Conducted a vapor mitigation performance evaluation at Home 7, and prepared a summary of the performance results.

2. Data Collected

- Groundwater sample results associated with the 2015 GMP sampling event from Area 1 and AOI 31 monitoring wells are included on Figures 1 and 2, and Tables 1 and 2, respectively.
- Groundwater elevation and LNAPL thickness measurements from AOI 21 monitoring wells are included on Figure 3.
- Monitoring well and injection locations associated with the Area 1 Expanded Pilot Study Injections are shown on Figure 4.
- Vacuum pressure readings obtained from seven sub-slab communication test points and the U-Tube manometer

3. Problems Encountered

- None

4. Estimated Percent Complete and Information Summary for Selected Activities

- O&M of the Groundwater Pump & Treat System (GWTP, Barrier Wall, Cover) 15%
Continued operation of the Area 1 French Drain Collection Trench and Groundwater Treatment system. Submitted appropriate discharge reports as per the Special Discharge Permit. (Percent complete estimated as 4 years complete of 27 years estimated in the May 2010 RCES.)
- Long-Term Groundwater Monitoring On-going
Long-Term Groundwater Monitoring Plan scheduled to be complete after 5 years of continued stability/reduction in off-Site/boundary concentrations (2006 through 2010). Sampling activities are currently planned to continue pending USEPA approval to cease monitoring.
- Maintenance of the AOI 39 Dust Control Plan 100%
- Restrictive Covenants 100%
Prepared a revised Declaration of Restrictive Covenant (DRC) and Termination Agreement for the existing 2007 DRC and submitted to USEPA on June 25, 2015.
Recorded final DRC and Termination Agreement on August 26, 2015.
- Vapor Intrusion Investigation 75%

Undergoing RACER review and awaiting further clarification of USEPA's vapor intrusion approach to address potential short-term effects from trichloroethylene (TCE) vapor intrusion.

- Installation of Vapor Mitigation System 100%

Installation completed and system updated September 2012.

- Operation, Maintenance and Performance Monitoring of Vapor Mitigation System On-going
System performance monitoring is being implemented at pre-scheduled time periods, though some delay in the schedule occurred due to home foreclosure and achieving contact with new homeowners. Latest system performance monitoring completed November 2013.
- Pilot Tests - Alternative Chemicals & Target In-Situ Treatment Injection 95%

Objective was to design, implement and evaluate a pilot test to use alternative chemicals in the wastewater treatment process that could reduce treatment system operating time and/or operating costs. Also, design and implement an in-situ stabilization treatment in Area 1 that could also reduce treatment system operating time and long-term monitoring duration.

The Area 1 field pilot test was conducted in November and December 2010. Based on an evaluation of the pilot test results, additional pilot study injection and monitoring activities were recommended to determine if full-scale on-site implementation would significantly reduce dissolved concentrations of chromium and nickel and allow for the groundwater treatment plant activities to be reduced or eliminated.

The groundwater treatment plant optimization activities have not been conducted due to health and safety concerns associated with handling, storing, and mixing the proposed replacement chemicals.

Additional cost and remedial alternative evaluations were performed in 2013. Additional Area 1 Characterization activities have been implemented. A laboratory treatability study was performed using site groundwater to evaluate the effectiveness of utilizing a permeable reactive barrier wall (PRB) with zero valent iron (ZVI) to treat Area 1 groundwater if the existing groundwater collection and treatment system operations are ceased. Groundwater modeling activities were also performed to evaluate the optimal location and number of PRBs and the effects on groundwater flow inside and outside of the Area 1 Barrier Wall.

An additional field pilot test injection was completed in November 2013 and monitoring activities were completed through October 2014 with an additional Pilot Injections in the northern portion of the Area 1 chromium and nickel-impacted groundwater plume proposed in the 2015 Annual EA Budget Request.

Additional expanded pilot study injections were completed in May through June of 2015 including the injection of sodium sulfide, sodium dithionite, or a combination of the two in 83 injection points in the northern portion of the Area 1 chromium and nickel-impacted groundwater plume. Groundwater monitoring concluded in December 2015. Reporting and evaluation of full-scale implementation will continue in 2016.

- Groundwater Treatment System Decommissioning & Removal 0%
Anticipated to be completed in 2037 per May 2010 RCES.
- Completion Report & Well Abandonment 0%
Anticipated to be completed in 2037 per May 2010 RCES.

5. Summary of Contacts with Interested Parties

- An approximate 101-acre portion of the property was sold to the Livonia West Commerce Center, LLC on August 18, 2015.

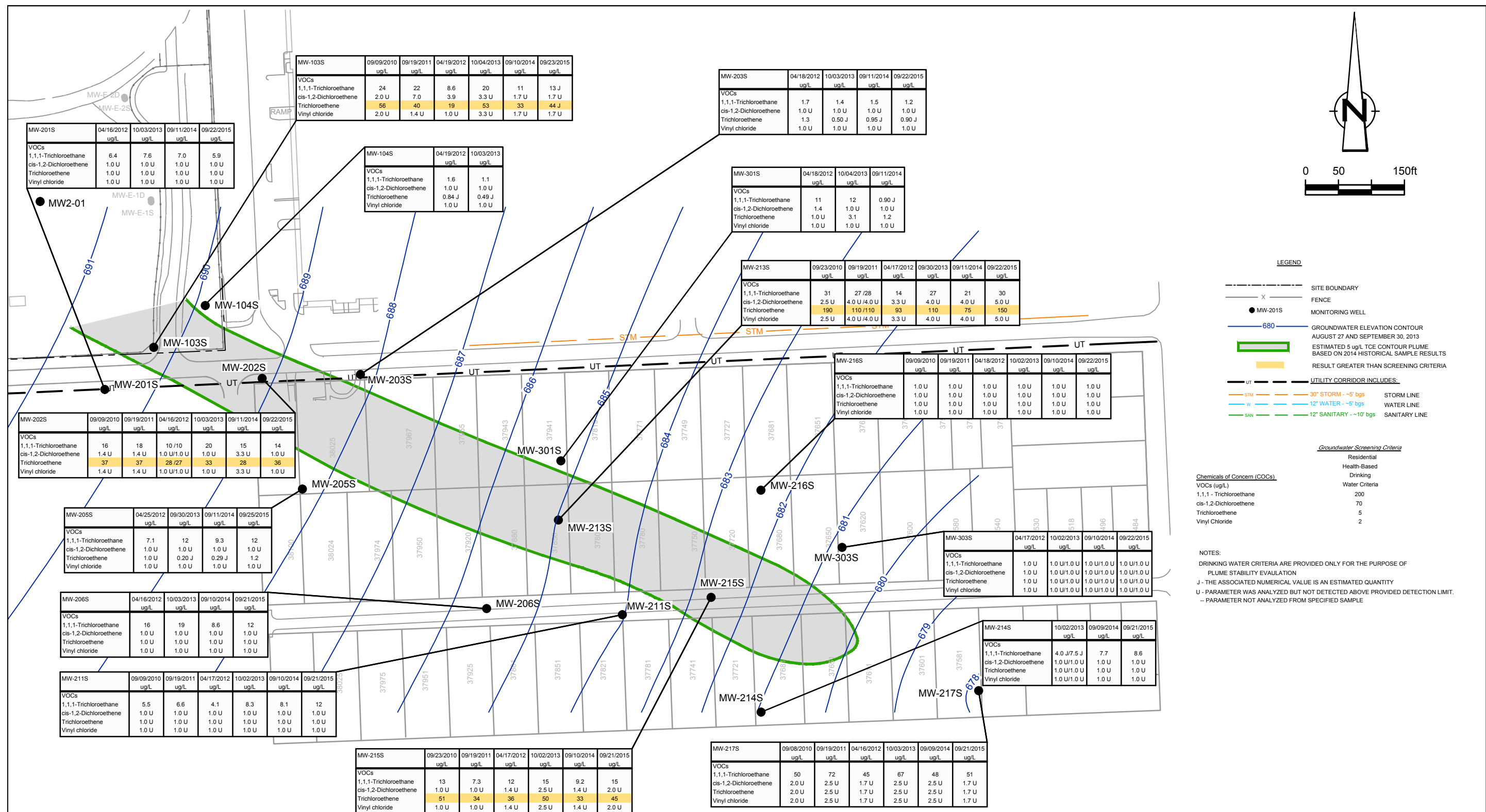
6. Changes in Personnel

- None

7. Projected Work for Next Reporting Period (January 2016 through June 2016)

- Coordination with USEPA and MDCH with the goal of removing subslab and near-slab soil gas ports from residences.
- Finalize the off-site residential vapor intrusion investigation and results report for submittal to USEPA.
- Evaluate and develop a near and long-term vapor intrusion monitoring plan to determine if properties downgradient from the homes investigated need evaluation of the vapor intrusion pathway.
- Continued operation of the Area 1 French Drain Collection Trench and Groundwater Treatment system.
- Prepare and submit an Area 1 ISCR Pilot Study Summary Report to USEPA.
- Prepare and submit an Area 1 Full-Scale ISCR Work Plan to USEPA
- Continue evaluation of potential cost savings and remedial alternatives to decrease the long-term OM&M costs associated with the Area 1 Groundwater Collection and Treatment System.
- Update the Groundwater Flow and Transport Model and use to evaluate identified alternative treatment and flow options.
- Continued support of redevelopment activities.
- Prepare summaries of meetings, data reviews, or conference calls with USEPA, as appropriate.
- Prepare the 1st 2016 Semi-Annual Progress Report.

Attachments: Figure 1 – Area 1 Groundwater Sample Results
Figure 2 – AOI 31 Groundwater Sample Results
Figure 3 – AOI 21 LNAPL Thickness Measurements
Figure 4 – Area 1 Monitoring Well and Injection Locations
Table 1 – AOI 31 GMP Groundwater Sample Results
Table 2 – Area 1 GMP Groundwater Sample Results
Exhibit 1 – Declaration of Restrictive Covenant
Exhibit 2 – GMP Laboratory Analytical Data
Exhibit 3 – GMP Data Validation Memorandum



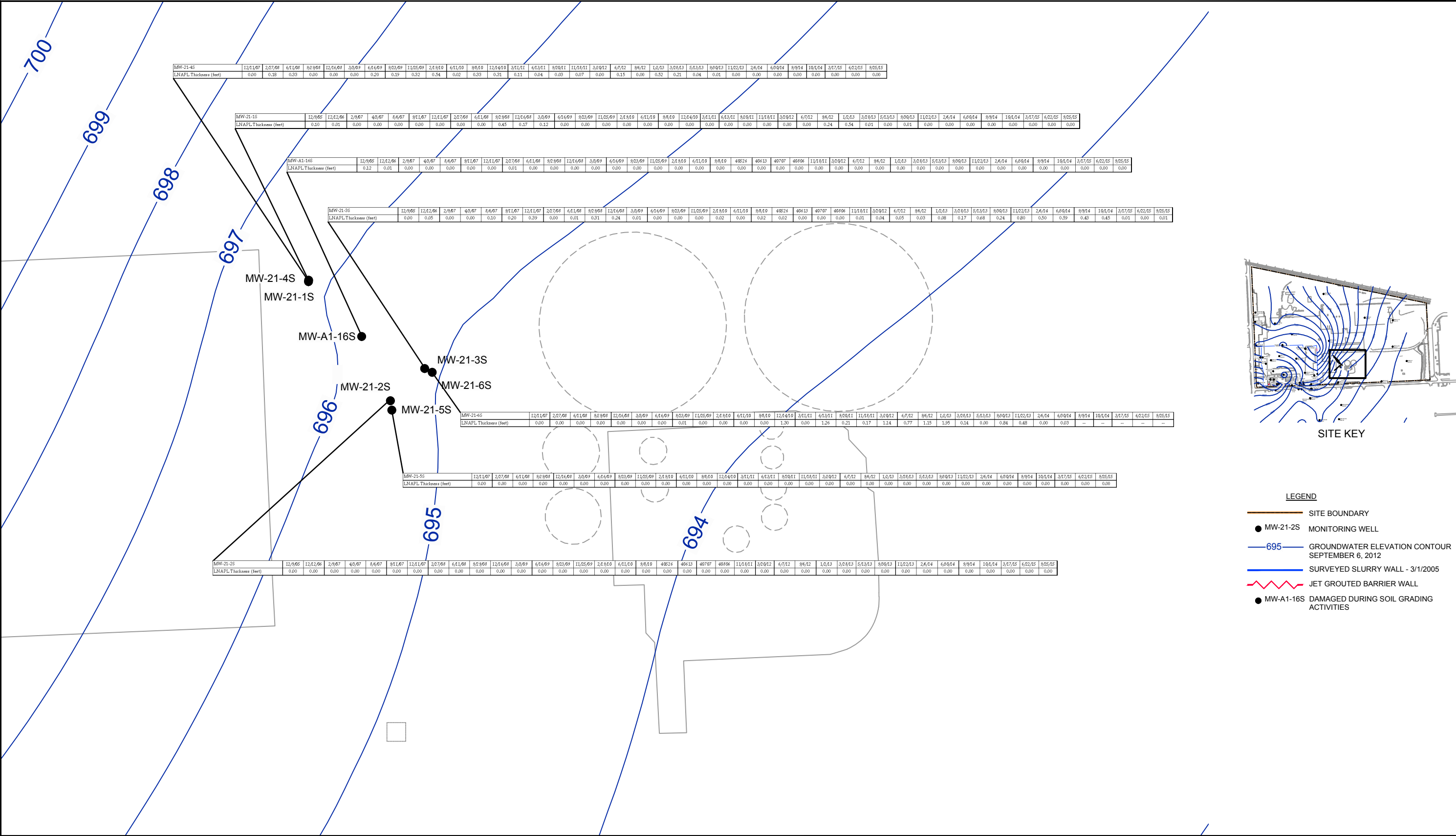


TABLE 1

ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
 AREA OF INTEREST 31 - FORMER FIRE TRAINING AREA
 ECKLES ROAD SITE
 LIVONIA, MICHIGAN

January 14, 2016
 Page 1 of 2

Sample Location:	MDEQ Generic Groundwater Cleanup Criteria	MW-103S	MW-201S	MW-202S	MW-203S	MW-205S	MW-206S
Sample ID:	Residential	GW-12607-092315-EM-018	GW-12607-092215-EM-012	GW-12607-092215-EM-011	GW-12607-092215-EM-010	GW-12607-092515-EM-024	GW-12607-092115-EM-003
Sample Date:	Drinking Water	9/23/2015	9/22/2015	9/22/2015	9/22/2015	9/25/2015	9/21/2015
Parameters	Units						
VOCs							
1,1,1-Trichloroethane	ug/L	200 A	13 J	5.9	14	1.2	12
1,1,2,2-Tetrachloroethane	ug/L	8.5	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	5 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	880	1.7 U	1.1	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	7 A	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	70 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	600 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	5 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	5 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	6.6	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	75 A	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	ug/L	85	2.0 U	2.0 U	--	1.0 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	13000	17 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	1000	17 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	1800	17 U	10 U	10 U	10 U	10 U
Acetone	ug/L	730	17 U	10 U	10 U	10 U	10 U
Benzene	ug/L	5 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	80 A,W	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	80 A,W	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	10	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	800	8.4 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5 A	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	100 A	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	430	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	80 A,W	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	260	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	70 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	--	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	--	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	80 A,W	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1700	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	74 E	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	800	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	--	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	ug/L	--	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	40 E	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5 A	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	100 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	5 A	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	790 E	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	100 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	--	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	5 A	44 J	1.0 U	36	0.90 J	1.2
Trichlorofluoromethane (CFC-11)	ug/L	2600	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	170000 S	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	2 A	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	280 E	3.3 UJ	2.0 U	2.0 U	2.0 U	2.0 U

Footnotes:

- U Not detected at the associated reporting limit.
 J Estimated concentration.
 UJ Not detected; associated reporting limit is estimated.

TABLE 1

January 14, 2016
Page 2 of 2ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
AREA OF INTEREST 31 - FORMER FIRE TRAINING AREA
ECKLES ROAD SITE
LIVONIA, MICHIGAN

Sample Location:	MW-211S	MW-213S	MW-214S	MW-215S	MW-216S	MW-217S	MW-303S	MW-303S	MW-303S
Sample ID:	GW-12607-092115-EM-004GW-12607-092215-EM-006GW-12607-092115-EM-002GW-12607-092115-EM-005GW-12607-092215-EM-007GW-12607-092115-EM-001GW-12607-092215-EM-008GW-12607-092215-EM-009								
Sample Date:	9/21/2015	9/22/2015	9/21/2015	9/21/2015	9/22/2015	9/21/2015	9/22/2015	9/22/2015	9/22/2015
Parameters	Units								
VOCs									
1,1,1-Trichloroethane	ug/L	12	30	8.6	15	1.0 U	51	1.0 U	--
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,1,2-Trichloroethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,1-Dichloroethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,1-Dichloroethene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	2.1	1.0 U	--
1,2,4-Trichlorobenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,2-Dichlorobenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,2-Dichloroethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,2-Dichloropropane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,3-Dichlorobenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,4-Dichlorobenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
1,4-Dioxane	ug/L	--	2.0 U	--	2.0 U	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	50 U	10 U	20 U	10 U	17 U	10 U	--
2-Hexanone	ug/L	10 U	50 U	10 U	20 U	10 U	17 U	10 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone)	ug/L	10 U	50 U	10 U	20 U	10 U	17 U	10 U	--
Acetone	ug/L	10 U	50 U	10 U	20 U	10 U	17 U	10 U	--
Benzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Bromodichloromethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Bromoform	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Bromomethane (Methyl bromide)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Carbon disulfide	ug/L	5.0 U	25 U	5.0 U	10 U	5.0 U	8.4 U	5.0 U	--
Carbon tetrachloride	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Chlorobenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Chloroethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Chloroform (Trichloromethane)	ug/L	1.0 U	1.3 J	1.0 U	0.99 J	1.0 U	0.96 J	0.26 J	--
Chloromethane (Methyl chloride)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
cis-1,2-Dichloroethene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
cis-1,3-Dichloropropene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Cyclohexane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Dibromochloromethane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Ethylbenzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Isopropyl benzene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Methyl acetate	ug/L	10 U	50 U	10 U	20 U	10 U	17 U	10 U	--
Methyl cyclohexane	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Methylene chloride	ug/L	5.0 U	25 U	5.0 U	10 U	5.0 U	8.4 U	5.0 U	--
Styrene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Tetrachloroethene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Toluene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
trans-1,2-Dichloroethene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
trans-1,3-Dichloropropene	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Trichloroethene	ug/L	1.0 U	150	1.0 U	45	1.0 U	1.7 U	1.0 U	--
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Vinyl chloride	ug/L	1.0 U	5.0 U	1.0 U	2.0 U	1.0 U	1.7 U	1.0 U	--
Xylenes (total)	ug/L	2.0 U	10 U	2.0 U	4.0 U	2.0 U	3.3 U	2.0 U	--

TABLE 2
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES
AREA 1 - FORMER PLATING AREA
ECKLES ROAD SITE
LIVONIA, MICHIGAN

January 14, 2016
Page 1 of 2

Sample Location:		MDEQ Generic Groundwater Cleanup Criteria	HA-14	HA-16	MW-OS-4D	MW-OS-4D	MW-OS-4S
Sample ID:		Residential	GW-12607-092315-EM-023	GW-12607-092315-EM-019	GW-12607-092315-EM-013	GW-12607-092315-EM-014	GW-12607-092315-EM-015
Sample Date:		Drinking Water	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015
Parameters		Units					
Metals							
Chromium	mg/L	0.1 A	0.0023 J	--	--	--	--
Chromium III (trivalent)	mg/L	0.1 A	0.0050 U	--	--	--	--
Chromium VI (hexavalent)	mg/L	0.1 A	0.0050 U	--	--	--	--
Nickel	mg/L	0.1 A	0.12	350	410	390	13

Footnotes:
U Not detected at the associated reporting limit.
J Estimated concentration.

TABLE 2

ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

AREA 1 - FORMER PLATING AREA

ECKLES ROAD SITE

LIVONIA, MICHIGAN

January 14, 2016

Page 2 of 2

Sample Location:	MW-OS-5D	MW-OS-6D	MW-OS-7D	MW-OS-8D	OW-24
Sample ID:	GW-12607-092315-EM-017	GW-12607-092315-EM-021	GW-12607-092315-EM-020	GW-12607-092315-EM-016	GW-12607-092315-EM-022
Sample Date:	9/23/2015	9/23/2015	9/23/2015	9/23/2015	9/23/2015

Parameters	Units					
Metals						
Chromium	mg/L	--	--	--	--	84
Chromium III (trivalent)	mg/L	--	--	--	--	19
Chromium VI (hexavalent)	mg/L	--	--	--	--	65
Nickel	mg/L	0.02 J	0.017 J	0.027 J	0.018 J	11

Exhibit 1

Declaration Of Restrictive Covenant

2015 AUG 26 PM 4:03

Bernard J. Youngblood
Wayne County Register of Deeds

2015326533 L: 52416 P: 740
08/26/2015 04:03 PM RST Total Pages: 18



DECLARATION OF RESTRICTIVE COVENANT

MDEQ Reference Number: RC-HWMD-111-_____

Facility MID Number: MID005356621

This Declaration of Restrictive Covenant is made to protect public health, safety, welfare and the environment pursuant to the provisions of Part 111, Hazardous Waste Management, Michigan Compiled Laws ("MCL") 324.11101 et seq. ("Part 111") and the applicable Sections of Part 201, Environmental Remediation, MCL 324.20101 et seq. ("Part 201") of the Natural Resources and Environmental Protection Act ("NREPA"), 1994 PA 451, as amended, MCL 324.101 et seq., and the Solid Waste Disposal Act, commonly referred to as the Resource Conservation and Recovery Act of 1976 ("RCRA"), as amended by the Hazardous and Solid Waste Amendments of 1984, 42 U.S.C. §§ 6901 et seq.

This Declaration of Restrictive Covenant ("Restrictive Covenant") is made on August 18, 2015, by RACER Properties LLC, the Grantor and current fee title holder of the Property, whose address is 500 Woodward Avenue, Detroit, MI 48226, for the benefit of the Grantees, State of Michigan, Department of Environment Quality ("MDEQ"), whose address is 525 West Allegan Street, P.O. Box 30473, Lansing, MI 48909-7926, and United States Environmental Protection Agency ("USEPA"), whose address is 77 West Jackson Boulevard, Chicago, IL 60604-3590.

This Restrictive Covenant has been made to prohibit or restrict activities that could result in unacceptable exposure to environmental contamination present at the property associated with the former General Motors Corporation Livonia Spring and Bumper Plant, having the address of 13000 Eckles Road, Livonia, Wayne County, MI ("Property"), having Tax Identification Number(s): 46-118-99-0001-003, and legally described in Exhibit 1 and illustrated in Exhibit 2.

On March 31, 2011, the Revitalizing Auto Communities Environmental Response Trust ("Trust") was established and assumed the rights, title, and interest of Motors Liquidation Company in and to the Property pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement") entered by the U.S. Bankruptcy Court for the Southern District of New York on March 29, 2011, in the case of *In re Motors Liquidation Company*, etc. et al., Debtors, Case No. 09-50026 (REG), among the Debtors, the United States of America, certain states including the State of Michigan, the Saint Regis Mohawk Tribe, and EPLET, LLC, (not individually but solely in its representative capacity as Administrative Trustee of the Trust ("Administrative Trustee"). RACER Properties LLC is an entity wholly owned by the Trust. (The Trust and RACER Properties LLC are collectively referred to herein as "RACER".) The Trust entered into a Performance Based Corrective Action Agreement ("Agreement") with USEPA for the Property effective September 29, 2011. Pursuant to the Agreement, the Trust continued the implementation of the long-term groundwater monitoring program, and operated the French drain

collection system to control the off-site migration of chromium and nickel-impacted groundwater from the Property (USEPA Identification Number MID005356621).

Based on the RCRA Facility Investigation (RFI) and subsequent monitoring, the Property contains hazardous substances in excess of the concentrations developed as the unrestricted residential criteria under Section 20120a(1)(a) or (17) of NREPA, 1994 PA 451, as amended. MDEQ and USEPA recommend that prospective purchasers or users of the Property undertake appropriate due diligence prior to acquiring or using this Property, and undertake appropriate actions to comply with the requirements of Section 20107a of NREPA.

Recording of this Restrictive Covenant is designed to restrict exposures to groundwater on the Property, and require any future work, or other activities on the Property by or for the Owner, to be conducted in conformance with: i) applicable MDEQ soil relocation requirements including but not limited to MCL 324.20120c and any related administrative rules and MDEQ guidance; and ii) applicable due care obligations under MCL 324.20107a and associated administrative rules and guidance, as well as the Hazardous Waste Operations and Emergency Response Standard (HAZWOPER), 29 C.F.R. 1910.

The land or resource use restrictions contained in this Restrictive Covenant are based upon information available at the time this document was recorded. Future changes in the environmental condition of the Property or changes in the cleanup criteria developed under Part 201; the discovery of environmental conditions at the Property that were not known at the time this document was recorded; or use of the Property in a manner inconsistent with the restrictions described herein, may result in this Restrictive Covenant not being protective of public health, safety, and welfare, and the environment. Additional restrictions may become necessary.

Definitions

“Agreement” shall mean the February 27, 2012, RCRA Corrective Action Agreement between the Trust and EPA.

“Grantee” shall mean the MDEQ, its successor entities, and those persons or entities acting on its behalf;

“Grantor” shall mean RACER Properties LLC, the title holder of the Property at the time this Restrictive Covenant was executed and an entity wholly-owned by the Trust, or any future title holder of the Property or some relevant sub-portion of the Property;

“MDEQ” means the Michigan Department of Environmental Quality, its successor entities, and those persons or entities acting on its behalf.

“NREPA” shall mean the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.101 *et seq.*

“Owner” means at any given time the then current fee title holder(s) and the holder(s) of a life estate of the Property or any portion thereof, including the fee title holder’s lessees and those persons or entities authorized to act on its behalf.

“Part 201” shall mean Part 201, Environmental Remediation, of the NREPA.

“Property” shall mean the property legally described in Exhibit 1.

"USEPA" means the United States Environmental Protection Agency, its successor entities, and those persons or entities acting on its behalf.

All other terms used in this document which are defined in Part 3, Definitions, of the NREPA, Part 111, Part 201, or the Part 111 and Part 201 Administrative Rules, shall have the same meaning in this document as in those statutes and rules as on the date this Restrictive Covenant is made.

Summary of Response Activities

The following hazardous substances, manganese, lead, benzene, 1,1-dichloroethene, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene (TCE), vinyl chloride, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs) have been detected at the Property at concentrations above generic residential cleanup criteria for applicable exposure pathways promulgated under Part 201, Environmental Remediation, of NREPA. (See attached Exhibit 6) Corrective action has been undertaken to address this contamination. Contaminated soil was removed from the south central, north central, and southeast portions of the Property. A groundwater monitoring plan, dated April 20, 2008, has been implemented for the Property to ensure that concentrations of constituents at the south and southeast property boundaries remain stable or decline. Institutional controls are being implemented along the north boundary area and south central area of the Property.

Additionally, on the adjacent parcel owned by RACER Properties LLC to the southwest of the Property (identified as "Revised Parcel 2" in Exhibit 2), a soil-bentonite and jet grout barrier wall have been installed to control the migration of chromium and nickel-impacted groundwater. The groundwater in Parcel 2 is collected in a French drain collection system and treated at the treatment plant, prior to being discharged to the Detroit Water and Sewerage Department sanitary sewer.

NOW THEREFORE,

Declaration of Land Use or Resource Use Restrictions

Grantor(s) as current fee title holder(s) of the Property, hereby declare(s) and covenant(s) that the Property, shall be subject to those restrictions on use described below, and intends that said restrictions and covenants shall run with the land, and may be enforced in perpetuity against Owner by the following entities: (1) Grantor, if it is no longer owner; and (2) MDEQ.

1. Land Use Prohibitions. Owner shall prohibit all uses of the Property that are not compatible with nonresidential land use category under MCL 324.20120a(1)(b) and generally described in the Description of Allowable Uses, attached hereto as Exhibit 5. Part 201 cleanup criteria for land use-based response activities are located in the Government Documents Section of the State of Michigan Library, MCL 324.201201 et seq. effective January 2015, and Michigan Administrative Code ("MAC") Rule ("R") 299.1 – R 299.50, effective December 31, 2013.

2. Activities Prohibited. Owner shall prohibit activities on the Property that may result in exposures above the nonresidential land use category. These prohibited activities include:
- a. No drinking water wells may be installed or used on the Property.
 - b. No groundwater extraction wells may be installed or used on the Property except for wells and devices that are part of an MDEQ or USEPA approved response activity, and for short-term dewatering for construction purposes, provided the dewatering, including management and disposal of the groundwater, is conducted in accordance with all applicable environmental laws and does not cause or result in a new release, exacerbation of any pre-existing environmental condition, or any other violation of environmental laws.
 - c. No contaminated soils, if any are present, may be relocated on the Property, except as provided for under Part 201, Section 20120c, MCL 324.20120c.
 - d. Owner shall not "treat," "store," "dispose" or release any Hazardous Substances, on, at, or below the Property, in a manner that would require a permit under RCRA, 42 U.S.C. §§ 6901 et seq. or equivalent state Law, except pursuant to a plan or permit approved in writing by MDEQ or USEPA.
 - e. If Owner elects to remove any slabs, pavement or other impervious surface on the Property, Owner shall be responsible for any and all obligations under environmental laws arising from any such removal, alteration or disturbance, whether or not caused by, arising from or related to, an environmental condition.
 - f. Owner shall not damage, remove, destroy or otherwise render inoperable or inaccessible any Monitoring Wells identified on the attached Exhibit 4 without written approval from MDEQ or USEPA or Grantor.
 - g. Owner shall maintain the berm along the northern side of the site and as depicted on Exhibit 3 as a cover/barrier over manganese in soils above the applicable inhalation standard and may not remove this berm unless a plan is approved in writing by MDEQ or USEPA to ensure the cover over the manganese area is properly maintained or other proper measures are taken to protect workers and the community from potential inhalation exposures.
 - h. Owner shall not excavate or disturb the soils in the "LNAPL" area depicted on the attached Exhibit 3 without a soils management plan approved in writing by MDEQ or USEPA or Grantor.
3. Contaminated Soil Management. Owner shall manage contaminated soils, media and/or debris (if any) and all other soils located on the Property in accordance with the requirements of Part 111, Section 20120c of the NREPA and RCRA Subtitle C, 42 U.S.C. §§ 6921-6943 et seq., the administrative rules promulgated pursuant to Part 111 and RCRA, and all other relevant state and federal laws, including but not limited to MCL 324.20120c.

4. Soil Vapor Management. The Owner shall not build or occupy any building on the Property without first completing one of the following: Option 1) Evaluate and determine, in accordance with applicable environmental laws rules or regulations that no unacceptable vapor intrusion risks to human health exist in any existing or newly constructed site buildings; or Option 2) Install, operate and maintain a vapor barrier and/or mitigation system designed to eliminate the potential for subsurface vapor phase hazardous substances to migrate into any building at concentrations greater than applicable criteria. This prohibition does not apply to short-term occupancy of a building for purposes of construction, renovation, repair, or other short-term activities as long as adequate health and safety precautions are employed during these activities, and they are performed in compliance with Section 20107a of NREPA.

If Option 2 above is selected, the Owner shall install and thereafter maintain a vapor barrier and/or install and thereafter operate and maintain a vapor intrusion mitigation system in accordance with applicable standards and criteria at the time, for the purpose of mitigating the potential intrusion of soil vapor below any human-occupied building constructed on the property after the date of this Restrictive Covenant until it is determined that a vapor barrier or mitigation system is no longer necessary in accordance with Option 1, above.

5. Access. Owner shall grant to MDEQ and USEPA the right to enter the Property at reasonable times for the purpose of determining and monitoring compliance with this Restrictive Covenant, including the right to take samples and, inspect any records relating thereto, and to perform any actions necessary to maintain compliance with Part 111, Part 201, and RCRA. Nothing in this Restrictive Covenant shall limit or otherwise affect MDEQ's right of entry and access, as defined in the NREPA, and any successor statutory provisions, or other state or federal laws.
6. Term. This Restrictive Covenant shall run with the Property, and shall be binding on Owner, and all current and future successors, lessees, easement holders, their assigns, and their authorized agents, employees, or persons acting under their direction and control.
7. Enforcement. Grantor and the Trust are entitled to enforce the restrictions and covenants in this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against subsequent Owners of all or part of the Property. Grantor, on behalf of itself, and its successors in title, intends and agrees that MDEQ or USEPA is entitled to enforce the restrictions and covenants in this Restrictive Covenant by specific performance or other legal action in a court of competent jurisdiction against Grantor, as Owner, and thereafter against subsequent Owners of all or part of the Property. All remedies available hereunder shall be in addition to any and all other remedies at law or equity.
8. Third Party Beneficiary: Grantor, on behalf of itself and its successors, and assigns, hereby agrees that the United States, acting by and through USEPA, its successors and assigns shall be a third party beneficiary ("Third Party Beneficiary") of all the benefits and rights set out in the restrictions, covenants, easements, exceptions, notifications, conditions and agreements herein, and that the Third Party Beneficiary shall have the right to enforce the restrictions described herein as if it was a party hereto. No other rights in third parties are intended by this Restrictive Covenant, and no other person or entity shall have any rights or authorities hereunder to enforce these restrictions, terms, conditions or

obligations beyond Grantor, MDEQ, their successors, assigns, and the Third Party Beneficiary.

9. USEPA Entry, Access: Nothing in this Restrictive Covenant shall limit or otherwise affect USEPA's right of entry and access, or authority to undertake actions under the Comprehensive Environmental Response, Compensation, and Liability Act, the National Contingency Plan (40 C.F.R. Part 300), and any successor statutory provisions, or other state or federal law. The Grantor consents to officers, employees, contractors, and authorized representatives of USEPA entering and having continued access to this Property for the purposes described in Paragraph 5 (Access) of this Restrictive Covenant.
10. Modification/ Release/Rescission: Grantor or Owner may request in writing to MDEQ and USEPA, at the addresses provided in herein, modifications to, or release or rescission of, this Restrictive Covenant. This Restrictive Covenant may be modified, released or rescinded only with the written approval of MDEQ and USEPA. Any approved modification to, or release or rescission of, this Restrictive Covenant shall be filed with the appropriate Registrar of Deeds by the Grantor or Owner and a certified copy shall be returned to MDEQ and USEPA at the addresses provided herein.
11. Transfer of Interest: Grantor shall provide notice at the addresses provided in this document to MDEQ and USEPA of the Grantor's intent to transfer any interest in the Property, or any portion thereof, at least fourteen (14) business days prior to consummating the conveyance. A conveyance of title, easement, or other interest in the Property shall not be consummated by Grantor without adequate and complete provision for compliance with the terms and conditions of this Restrictive Covenant and the applicable provisions of Section 20116 of the NREPA. Grantor shall include in any instrument conveying any interest in any portion of the Property, including, but not limited to, deeds, leases, and mortgages, a notice which is in substantially the following form:

NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO A DECLARATION OF RESTRICTIVE COVENANT DATED _____[month, day, year], AND RECORDED WITH THE WAYNE COUNTY REGISTER OF DEEDS, LIBER _____, PAGE _____.

12. Notices: Any notice, demand, request, consent, approval, or communication that is required to be made or obtained under this Restrictive Covenant shall be made in writing; include a statement that the notice is being made pursuant to the requirements of this Restrictive Covenant; include the MDEQ Site ID number, and reference number; and shall be served either personally, or sent via first class mail, postage prepaid, as follows:

For MDEQ:

Chief
Office of Waste Management and Radiological Protection
Michigan Department of Environmental Quality
P.O. Box 30241
Lansing, MI 48909-7741

For USEPA:

Director
Land and Chemicals Division (DR-8J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Chicago, IL 60604

with a copy to:

Office of Regional Counsel (C-14J)
U.S. Environmental Protection Agency, Region 5
77 West Jackson Blvd.
Chicago, IL 60604

For RACER:

Michigan Cleanup Manager
RACER Trust
500 Woodward Avenue
Detroit, MI 48226

with a copy to:

General Counsel
RACER Trust
500 Woodward Avenue
Detroit, MI 48226

13. Severability. If any provision of this Restrictive Covenant is held to be invalid by a court of competent jurisdiction, the invalidity of such provision shall not affect the validity of any other provisions of this Restrictive Covenant and all other provisions shall continue to remain in full force and effect.
14. Limitation on RACER's Liability. RACER's and the Administrative Trustee's liability is limited by the terms and conditions of the Settlement Agreement, which are incorporated herein by reference.
15. Authority to Execute Restrictive Covenant. The undersigned person executing this Restrictive Covenant represents and certifies that he or she is duly authorized and has been empowered to execute and deliver this Restrictive Covenant.
16. Notification to Potentially Interested Parties. Notification of this Restrictive Covenant has been provided to the easement holders on the Property identified in Exhibit 2.
17. Miscellaneous:
 - a) Controlling Law. The interpretation and performance of this Restrictive Covenant shall be governed by the laws of the United States as to the obligations referred to in the Agreement, and regulations of the State of Michigan for all other purposes hereunder (without reference to choice of laws principles thereof). The right to

enforce the conditions and restrictions in this Restrictive Covenant are in addition to other rights and remedies that may be available, including, but not limited to, administrative and judicial remedies under RCRA, CERCLA or Part 201 of the NREPA.

- b) Liberal Construction. Any general rule of construction to the contrary notwithstanding, this Restrictive Covenant shall be liberally construed to affect the purpose of this Restrictive Covenant and the policy and purpose of RCRA and the land use restrictions and prospective use limitations required by Part 201. If any provision of this Restrictive Covenant is found to be ambiguous, an interpretation consistent with the purpose of this Restrictive Covenant that would render the provision valid shall be favored over any interpretation that would render it invalid.
- c) Entire Agreement. This Restrictive Covenant and its attachments and appendices supersedes all prior discussions, negotiations, understandings, or agreements relating to the matters addressed herein, all of which are merged herein.

EXHIBIT 1

LEGAL DESCRIPTION OF PROPERTY

Real Property located in the City of Livonia, County of Wayne, State of Michigan, described as follows:

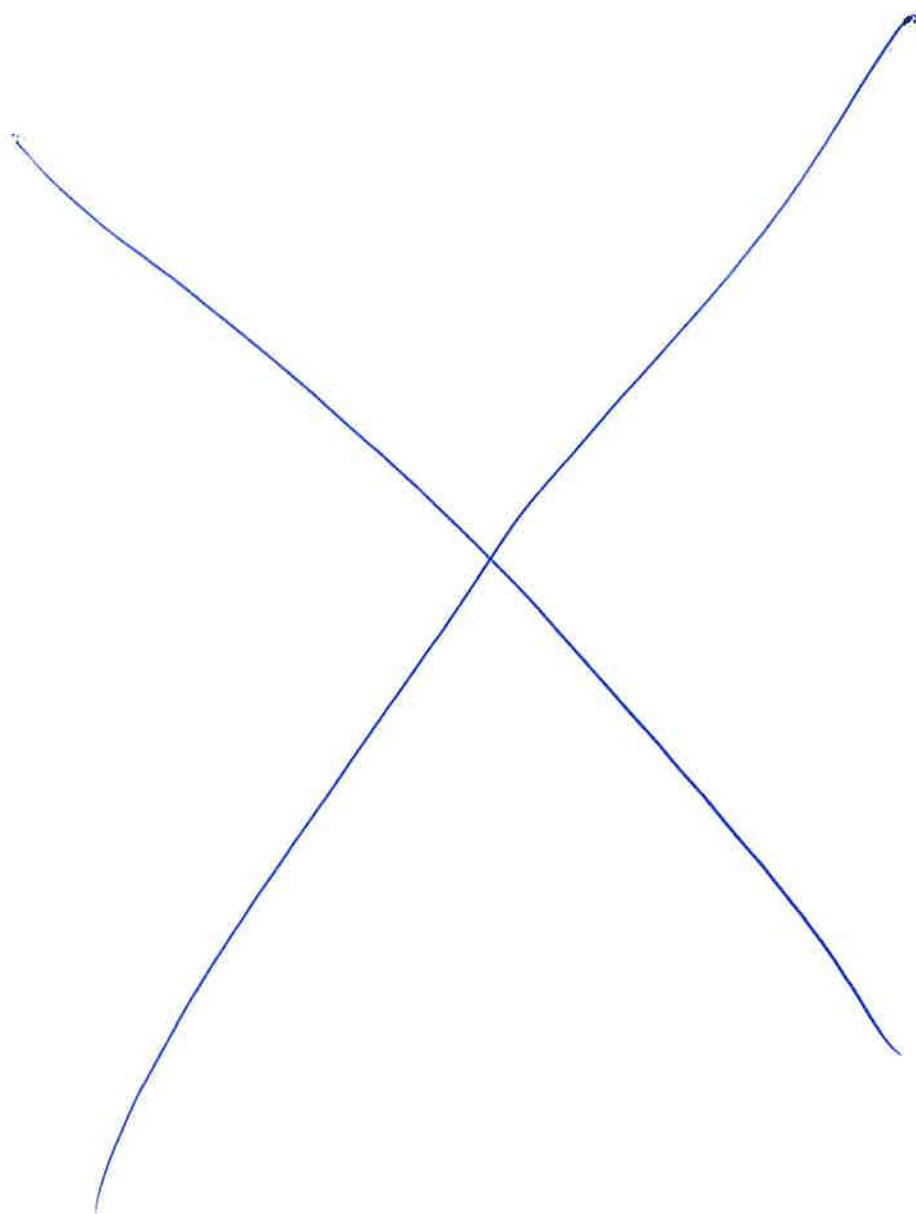
A part of the North ½ of Section 30, Town 1 South, Range 9 East, City of Livonia, Wayne County, Michigan, commencing at the West ¼ corner of said Section 30; thence North 00 degrees 26 minutes 07 seconds East, 43.00 feet along the West line of Section 30; thence South 89 degrees 32 minutes 30 seconds East, 60.00 feet; thence North 00 degrees 26 minutes 07 seconds East (M), 730.00 feet (M) to the Point of Beginning; thence North 00 degrees 26 minutes 07 seconds East (M&R), 1376.45 feet along Eckles Road right-of-way, (120 foot right-of-way) to a point on the Southerly line of the Chesapeake and Ohio Railroad Right-of-Way; thence South 75 degrees 30 minutes 44 seconds East (M), South 75 degrees 29 minutes 32 seconds East (R), 3119.90 feet (M), 3120.84 feet (R) along said Southerly Right-of-Way line; thence South 00 degrees 00 minutes 21 seconds West (M), South 00 degrees 02 minutes 00 seconds West (R), 1347.10 feet (M), 1347.19 feet (R) to a point on Amrhein Road Right-of-Way (86 foot right-of-way); thence along said right-of-way, the two (2) following courses, North 89 degrees 52 minutes 40 seconds West (M), North 89 degrees 45 minutes 37 seconds West (R), 521.65 feet (M), 521.47 feet (R) and North 89 degrees 32 minutes 30 seconds West (M), North 89 degrees 32 minutes 34 seconds West (R), 1395.05 feet (M); thence North 00 degrees 26 minutes 07 seconds East (M), 730.00 feet; thence North 89 degrees 32 minutes 30 seconds West (NI), 1120.00 feet (M), to the Point of Beginning.

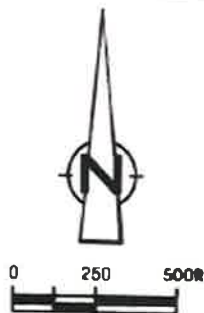
Tax Parcel Number: 46-118-99-0001-003

Commonly known as 13000 Eckles Road, Livonia, Michigan

EXHIBIT 2

DRAWING ILLUSTRATING DESCRIPTION OF PROPERTY





POINT	X	Y
A	13376512.8197	322062.0703
B	13376513.5345	321999.0043
C	13378231.9884	321655.2532
D	13378231.2736	321718.3192
E	13377625.2361	320507.7867
F	13377633.1656	320343.7795
G	13377807.4418	320352.2054
H	13377799.5124	320516.2145

MICHIGAN STATE PLANE COORDINATES
SOUTH ZONE

LEGEND

- FENCE
- APPROXIMATE PROPERTY BOUNDARY
- EXTENT OF EXISTING EXPOSED SLAB
- APPROXIMATE AREA OF LNAPL
- NORTH BOUNDARY DUST CONTROL AREA

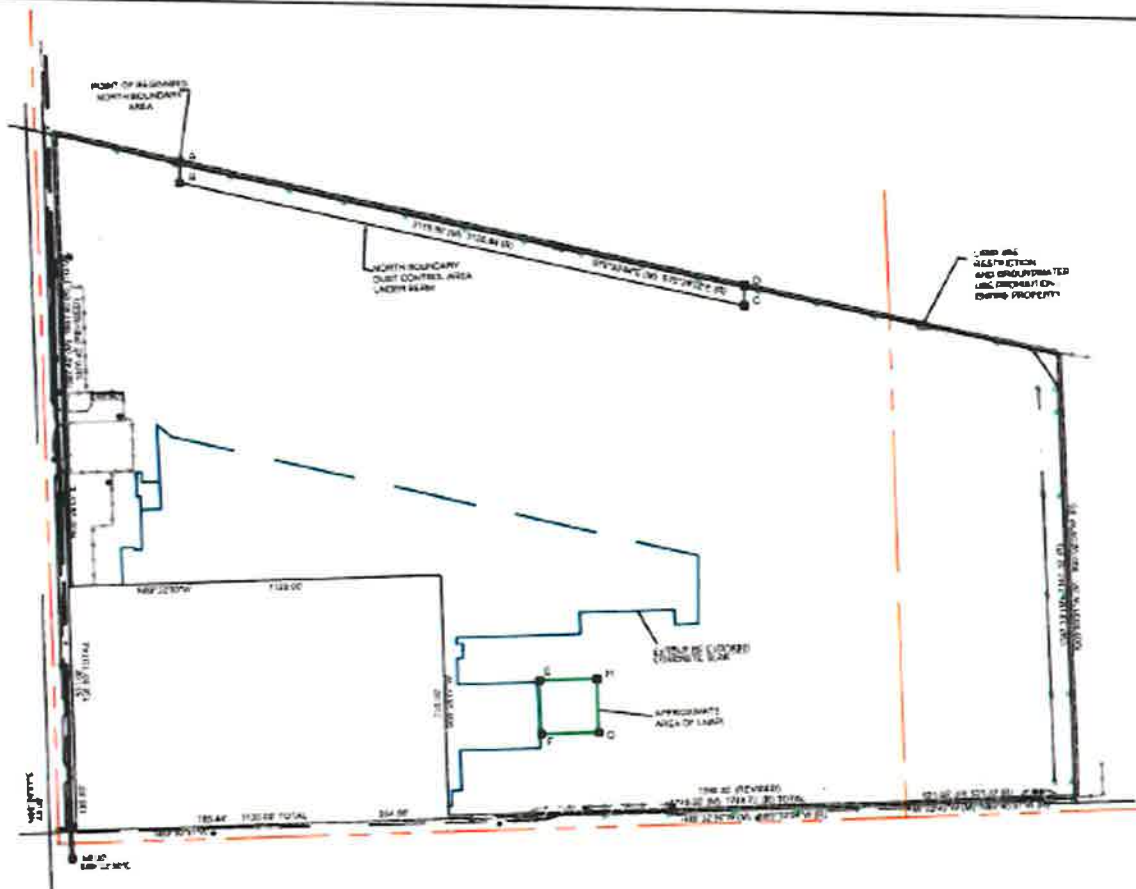


Exhibit 3

AREAS OF RESTRICTION
RESTRICTIVE COVENANT
13000 ECKLES ROAD SITE
Livonia, Michigan

EXHIBIT 3

DRAWING ILLUSTRATING AREAS OF RESTRICTION ON PROPERTY

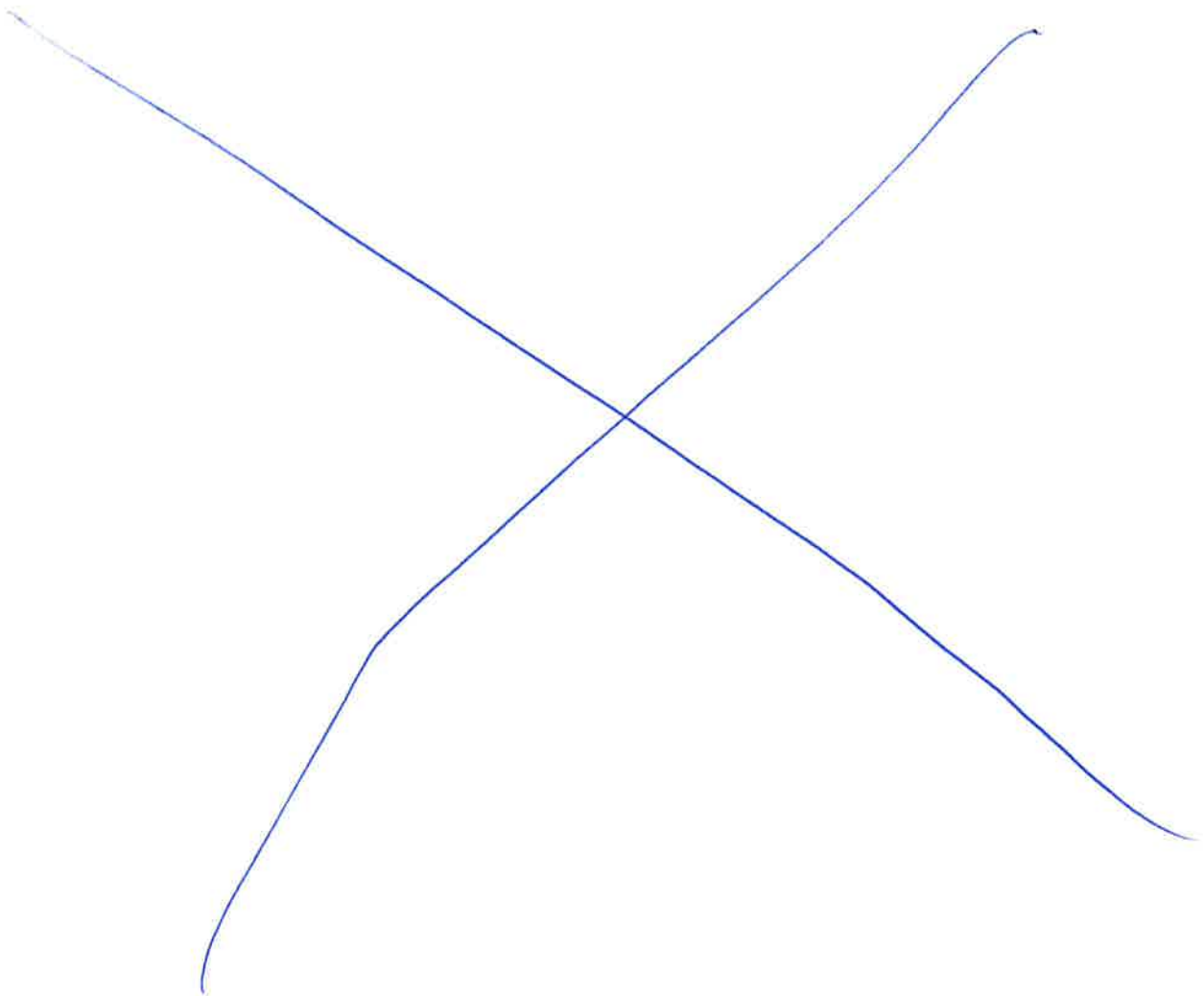
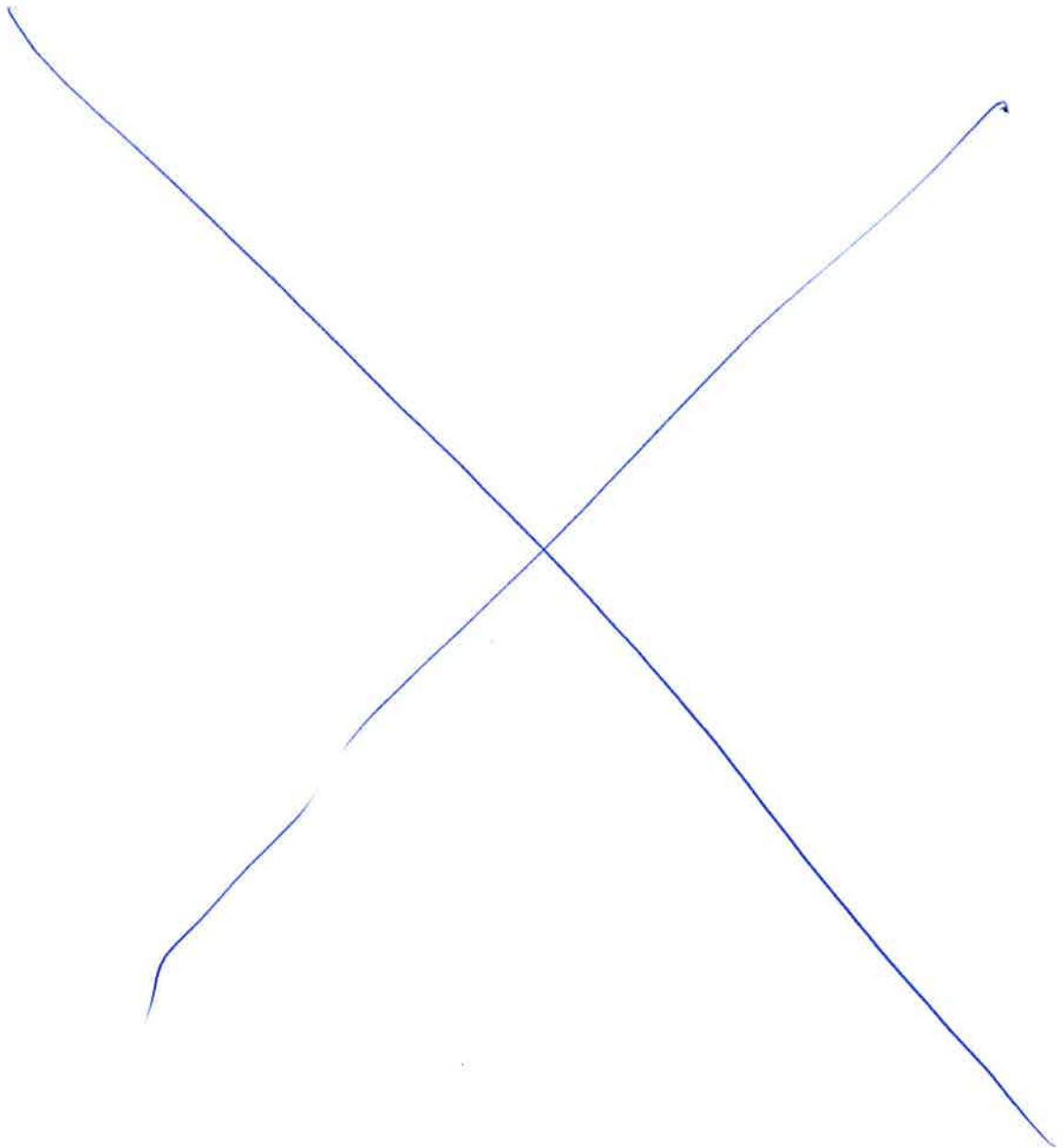
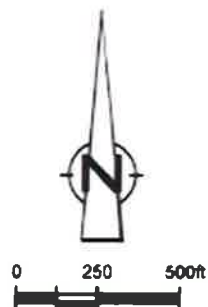


EXHIBIT 4

MONITORING WELLS TO BE MAINTAINED



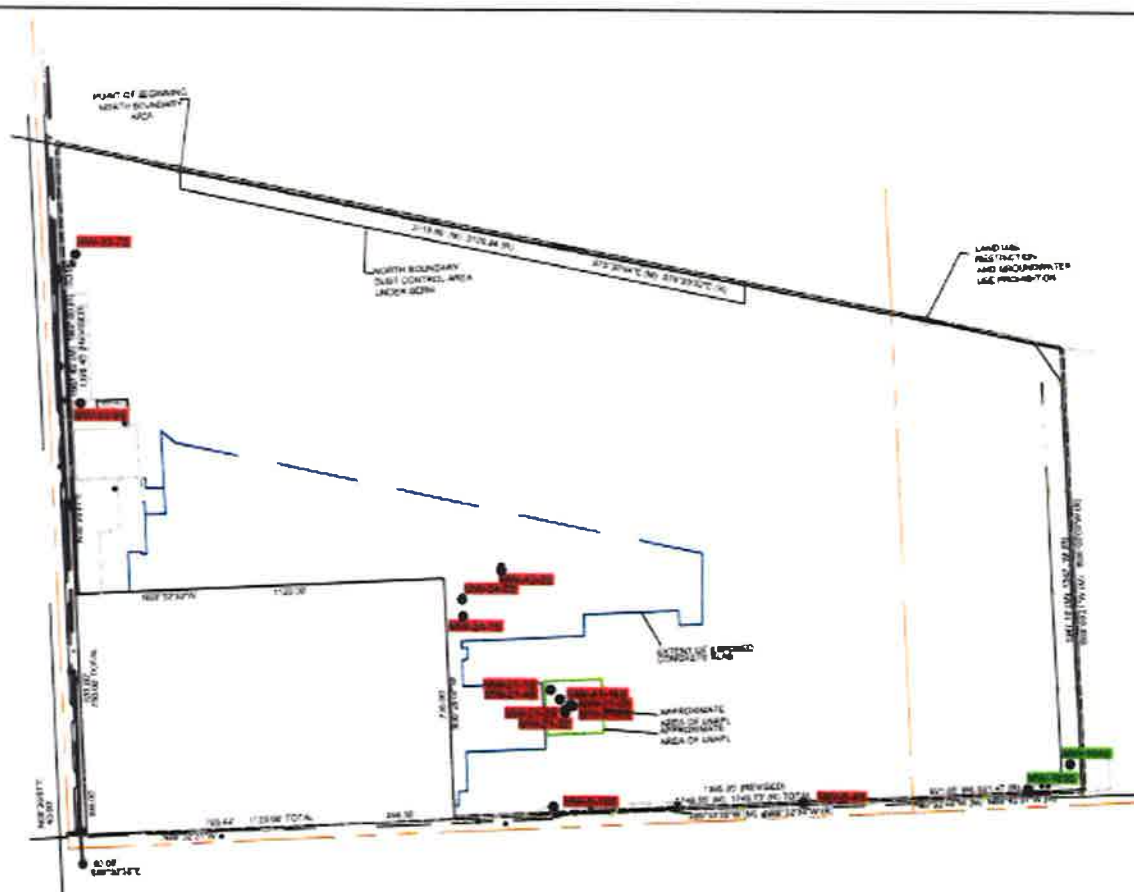


MW	X	Y
MW-103S	13379094.3500	320184.3800
MW-104S	13378222.5400	320261.7800
MW-21-1S	13377644.8743	320480.4403
MW-21-2S	13377688.8800	320417.2100
MW-21-3S	13377708.7300	320434.3700
MW-21-4S	13377545.1500	320480.6200
MW-21-5S	13377089.4400	320411.3900
MW-21-6S	13377710.9700	320431.5200
MW-33-7S	13376188.5800	321767.9800
MW-33-9S	13376204.7962	321343.1982
MW-41-16S	13377673.1913	320451.4311

MICHIGAN STATE PLANE COORDINATES
SOUTH ZONE

LEGEND

- FENCE
- APPROXIMATE PROPERTY BOUNDARY
- EXTENT OF EXISTING EXPOSED SLAB
- APPROXIMATE AREA OF LNAPL
- NORTH BOUNDARY DUST CONTROL AREA
- EXISTING MONITORING WELL
PROPOSED FOR ABANDONMENT
- EXISTING MONITORING WELL
TO BE MAINTAINED



MONITORING WELLS TO BE MAINTAINED AND ABANDONED

13000 ECKLES ROAD SITE
Livonia, Michigan

EXHIBIT 5

DESCRIPTION OF ALLOWABLE USES

Nonresidential Land Use: This land use is characterized by any use which is not residential in nature and is primarily characterized by industrial and commercial uses. Industrial uses typically involve manufacturing operations engaged in processing and manufacturing of materials or products. Other examples of industrial uses are utility companies, industrial research and development, and petroleum bulk storage. Commercial uses include any business or income-producing use such as commercial warehouses, lumber yards, retail gas stations, auto dealerships and service stations, as well as office buildings, banks, and medical/dental offices (not including hospitals). Commercial uses also include retail businesses whose principal activity is the sale of food or merchandise within an enclosed building and personal service establishments which perform services indoors such as health clubs, barber/beauty salons, photographic studios, etc.

Any residential use is specifically prohibited from the non-residential land use category. This would include the primary use of the property for human habitation and includes structures such as single family dwellings, multiple family structures, mobile homes, condominiums, and apartment buildings. Residential use is also characterized by any use which is intended to house, educate, or provide care for children, the elderly, the infirm, or other sensitive populations, and therefore could include day care centers, educational facilities, hospitals, elder care facilities, and nursing homes. The use of any accessory building or portion of an existing building as a dwelling unit permitted for a proprietor or storekeeper and their families, located in the same building as their place of occupation, or for a watchman or caretaker is also prohibited. Any authority that allows for residential use of the Property as a legal non-conforming use is also restricted per the prohibitions contained in this restrictive covenant.

EXHIBIT 6

HAZARDOUS SUBSTANCES FOUND ON SITE

Manganese

Lead

Benzene

1,1,-Dichloroethene

cis-1,2-Dichloroethene

Methylene chloride

Tetrachloroethene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichloroethene

Vinyl Chloride

Polycyclic aromatic hydrocarbons

Polychlorinated biphenyls

**TERMINATION OF DECLARATION
OF RESTRICTIVE COVENANT** ①

GENERAL MOTORS CORPORATION was the declarant under that certain Declaration of Restrictive Covenant (MDEQ Reference No.: RC-WHMD-06-007) dated as of January 17, 2007 and recorded with the Wayne County Register of Deeds on January 22, 2007 at Liber 45871 Page 446 (the "Restrictive Covenant") with respect to property located at 13000 Eckles Road, Livonia, Michigan, and described therein as the "Property" (the "Eckles Road Site").

On June 1, 2009 GM filed a voluntary petition for relief under the Bankruptcy Code. As a result of the ensuing bankruptcy process a new entity was formed, General Motors Company, which acquired a portion of the original GM assets. GM was renamed Motors Liquidation Company and retained those assets not acquired by General Motors Company.

The Revitalizing Auto Communities Environmental Response Trust ("RACER Trust") was established on March 31, 2011 and assumed the rights, title, and interest of Motors Liquidation Company in and to the Eckles Road Site and the adjacent property located at 12950 Eckles Road pursuant to an Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement") entered by the U.S. Bankruptcy Court for the Southern District of New York on March 29, 2011, in the case of *In re Motors Liquidation Company, etc. et al.*, Debtors, Case No. 09-50026 (REG), among the Debtors, the United States of America, certain states including the State of Michigan, the Saint Regis Mohawk Tribe, and EPLET, LLC, (not individually but solely in its representative capacity as Administrative Trustee of the Trust ("Administrative Trustee")).

RACER Properties LLC, an entity wholly-owned by the RACER Trust is the current title holder owner of the Eckles Road Site and the adjacent property located at 12950 Eckles Road. **RACER Properties LLC**, with the consent of the **US Environmental Protection Agency**, hereby terminates the Restrictive Covenant as it relates to all the property described and illustrated in attached **Exhibit "A"**.

Dated as of August 18, 2015

RACER PROPERTIES LLC

By: Revitalizing Auto Communities Environmental Response Trust, Sole Member of RACER Properties LLC

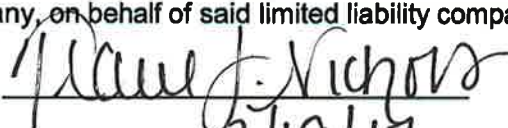
By: EPLET, LLC, acting solely in its capacity as Administrative Trustee of Revitalizing Auto Communities Environmental Response Trust

By: 
ELLIOTT P. LAWS, not individually,
but acting solely in his capacity as
Managing Member of EPLET, LLC

Date: August 18, 2015

State Michigan
~~DISTRICT OF~~)
county Wayne)SS
CITY OF)

The foregoing instrument was acknowledged before me this 13 day of August, 2015, by ELLIOTT P. LAWS, not individually, but acting solely in his capacity as Managing Member of EPLET, LLC, a Delaware limited liability company, acting solely in its capacity as Administrative Trustee of Revitalizing Auto Communities Environmental Response Trust, a New York trust, acting solely in its capacity as Sole Member of RACER Properties LLC, a Delaware limited liability company, on behalf of said limited liability companies and said trust.

Notary Public 
My commission expires: 3/19/17

TRACIE L. NICHOLS
Notary Public, State of Michigan
County of Oakland
My Commission Expires 03-19-2017
Acting in the County of Wayne

This document is exempt from state and county transfer taxes pursuant MCL 207.505(a) and MCL 207.526(a)

The foregoing Termination of Declaration of Restrictive Covenant is consented to and approved as of the date first written above.

US ENVIRONMENTAL PROTECTION AGENCY

By: *Peter Felitti*

Name: Peter Felitti

Title: Assistant Regional Counsel

STATE OF Illinois)
) ss.
COUNTY OF Cook)

The foregoing instrument was acknowledged before me this 4th day of August, 2015, by Peter Felitti, the Assistant Regional Counsel of the US Environmental Protection Agency, an agency of the United States of America, on behalf of said agency.

Mary Ortiz
Notary Public, _____ County, COOK

My Commission Expires: DEC 4, 2016

Acting in _____ County, _____

Prepared by ~~and return to:~~
General Counsel
RACER Trust
500 Woodward Avenue, Suite 1510
Detroit, MI 48226



When Recorded Return To:
Title Source, Inc. - Commercial Team
662 Woodward Avenue
Detroit, MI 48226
TSI #: 5974264276

Exhibit "A"
Description of Released Property

Legal Description

Land Situated in the City of Livonia in the County of Wayne in the State of Michigan:

A part of the North 1/2 of Section 30, Town 1 South, Range 9 East, City of Livonia, Wayne County, Michigan, commencing at the West 1/4 corner of said Section 30; thence North 00 degrees 26 minutes 07 seconds East, 43.00 feet along the West line of Section 30; thence South 89 degrees 32 minutes 30 seconds East, 60.00 feet; thence North 00 degrees 26 minute 07 seconds East (M), 199.00 feet (M) to the Point of Beginning; thence North 00 degrees 26 minutes 07 seconds East (M&R), 1907.45 feet (M); 1907.80 feet (R) along Eckles Road right-of-way, (120 foot right-of-way) to a point on the Southerly line of the Chesapeake and Ohio Railroad Right-of-Way; thence South 75 degrees 30 minutes 44 seconds East (M), South 75 degrees 29 minutes 32 seconds East (R), 3119.90 feet (M), 3120.84 feet (R) along said Southerly Right-of-Way line; thence South 00 degrees 00 minutes 21 seconds West (M), South 00 degrees 02 minutes 00 seconds West (R), 1347.10 feet (M), 1347.19 feet (R) to a point on Amrhein Road Right-of-Way (86 foot right-of-way); thence along said right-of-way, the two (2) following courses, North 89 degrees 52 minutes 40 seconds West (M), North 89 degrees 45 minutes 37 seconds West (R), 521.65 feet (M), 521.47 feet (R) and North 89 degrees 32 minutes 30 seconds West (M), North 89 degrees 32 minutes 34 seconds West (R), 1749.55 feet (M); 1749.73 feet (R); thence North 00 degrees 26 minutes 07 seconds East (M), 199.00 feet (NI); thence North 89 degrees 32 minutes 30 seconds West (NI), 765.44 feet (M), to the Point of Beginning.

Tax Id Number: 46-118-99-0001-001;

New Tax Id Number as of 2016: 46-118-99-0001-003 and a portion of Tax Id: 46-118-99-0001-004

Commonly known as 13000 and 12950 Eckles Road, Livonia, Michigan

Exhibit 2

GMP Laboratory Analytical Data

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: 240-55783-1

Client Project/Site: 12607-019, RACER Eckles Rd

For:

GHD Services Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

10/6/2015 1:05:22 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	6
Sample Summary	7
Detection Summary	8
Method Summary	11
Client Sample Results	12
QC Association Summary	57
QC Sample Results	60
Surrogate Summary	75
Lab Chronicle	76
Certification Summary	81
Chain of Custody	82



Case Narrative

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Job ID: 240-55783-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 12607-019, RACER Eckles Rd

Report Number: 240-55783-1

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 09/24/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12607-092115-EM-001 (240-55783-1), GW-12607-092115-EM-002 (240-55783-2), GW-12607-092115-EM-003 (240-55783-3), GW-12607-092115-EM-004 (240-55783-4), GW-12607-092115-EM-005 (240-55783-5), GW-12607-092215-EM-006 (240-55783-6), GW-12607-092215-EM-007 (240-55783-7), GW-12607-092215-EM-008 (240-55783-8), GW-12607-092215-EM-009 (240-55783-9), GW-12607-092215-EM-010 (240-55783-10), GW-12607-092215-EM-011 (240-55783-11), GW-12607-092215-EM-012 (240-55783-12), GW-12607-092315-EM-018 (240-55783-18) and TB-12607-092315-A (240-55783-24) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/29/2015, 09/30/2015, 10/02/2015 and 10/05/2015.

Acetone was detected in method blank MB 240-199492/6 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.

Acetone and Methylene Chloride were detected in method blank MB 240-199757/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Case Narrative

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Job ID: 240-55783-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Acetone and Methylene Chloride were detected in method blank MB 240-200149/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone and Methylene Chloride were detected in method blank MB 240-200347/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Several analytes failed the recovery criteria low for the MS of sample GW-12607-092315-EM-018MS (240-55783-18) in batch 240-200347.

Several analytes failed the recovery criteria low for the MSD of sample GW-12607-092315-EM-018MSD (240-55783-18) in batch 240-200347.

Samples GW-12607-092115-EM-001 (240-55783-1)[1.67X], GW-12607-092115-EM-005 (240-55783-5)[2X], GW-12607-092215-EM-006 (240-55783-6)[5X] and GW-12607-092315-EM-018 (240-55783-18)[1.67X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

There was no MS/MSD run in batch 200149 due to an instrument failure.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples GW-12607-092115-EM-005 (240-55783-5), GW-12607-092215-EM-006 (240-55783-6), GW-12607-092215-EM-011 (240-55783-11), GW-12607-092315-EM-018 (240-55783-18) and TB-12607-092315-B (240-55783-25) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 10/01/2015.

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12607-092315-EM-013 (240-55783-13), GW-12607-092315-EM-014 (240-55783-14), GW-12607-092315-EM-015 (240-55783-15), GW-12607-092315-EM-016 (240-55783-16), GW-12607-092315-EM-017 (240-55783-17), GW-12607-092315-EM-019 (240-55783-19), GW-12607-092315-EM-020 (240-55783-20), GW-12607-092315-EM-021 (240-55783-21), GW-12607-092315-EM-022 (240-55783-22) and GW-12607-092315-EM-023 (240-55783-23) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 09/25/2015 and analyzed on 09/28/2015 and 09/29/2015.

Chromium was detected in method blank MB 240-199077/1-A 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.

Chromium failed the recovery criteria low for the MS of sample GW-12607-092315-EM-022MS (240-55783-22) in batch 240-199445.

Nickel and Chromium failed the recovery criteria high for the MSD of sample GW-12607-092315-EM-022MSD (240-55783-22) in batch 240-199445.

Samples GW-12607-092315-EM-013 (240-55783-13)[20X], GW-12607-092315-EM-014 (240-55783-14)[20X], GW-12607-092315-EM-019 (240-55783-19)[20X] and GW-12607-092315-EM-022 (240-55783-22)[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.

HEXAVALENT CHROMIUM

Samples GW-12607-092315-EM-022 (240-55783-22) and GW-12607-092315-EM-023 (240-55783-23) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 09/24/2015.

Case Narrative

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Job ID: 240-55783-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Sample GW-12607-092315-EM-022 (240-55783-22)[1000X] 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.

TRIVALENT CHROMIUM

Samples GW-12607-092315-EM-022 (240-55783-22) and GW-12607-092315-EM-023 (240-55783-23) were analyzed for trivalent chromium in accordance with EPA SW-846 Method 7196A_CR3. The samples were analyzed on 09/29/2015.

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.

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.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-55783-1	GW-12607-092115-EM-001	Water	09/21/15 12:15	09/24/15 09:15
240-55783-2	GW-12607-092115-EM-002	Water	09/21/15 13:30	09/24/15 09:15
240-55783-3	GW-12607-092115-EM-003	Water	09/21/15 14:55	09/24/15 09:15
240-55783-4	GW-12607-092115-EM-004	Water	09/21/15 15:50	09/24/15 09:15
240-55783-5	GW-12607-092115-EM-005	Water	09/21/15 16:35	09/24/15 09:15
240-55783-6	GW-12607-092215-EM-006	Water	09/22/15 09:45	09/24/15 09:15
240-55783-7	GW-12607-092215-EM-007	Water	09/22/15 10:50	09/24/15 09:15
240-55783-8	GW-12607-092215-EM-008	Water	09/22/15 12:20	09/24/15 09:15
240-55783-9	GW-12607-092215-EM-009	Water	09/22/15 12:45	09/24/15 09:15
240-55783-10	GW-12607-092215-EM-010	Water	09/22/15 14:40	09/24/15 09:15
240-55783-11	GW-12607-092215-EM-011	Water	09/22/15 15:45	09/24/15 09:15
240-55783-12	GW-12607-092215-EM-012	Water	09/22/15 16:35	09/24/15 09:15
240-55783-13	GW-12607-092315-EM-013	Water	09/23/15 09:20	09/24/15 09:15
240-55783-14	GW-12607-092315-EM-014	Water	09/23/15 09:25	09/24/15 09:15
240-55783-15	GW-12607-092315-EM-015	Water	09/23/15 09:35	09/24/15 09:15
240-55783-16	GW-12607-092315-EM-016	Water	09/23/15 10:10	09/24/15 09:15
240-55783-17	GW-12607-092315-EM-017	Water	09/23/15 10:40	09/24/15 09:15
240-55783-18	GW-12607-092315-EM-018	Water	09/23/15 10:15	09/24/15 09:15
240-55783-19	GW-12607-092315-EM-019	Water	09/23/15 11:25	09/24/15 09:15
240-55783-20	GW-12607-092315-EM-020	Water	09/23/15 13:45	09/24/15 09:15
240-55783-21	GW-12607-092315-EM-021	Water	09/23/15 15:10	09/24/15 09:15
240-55783-22	GW-12607-092315-EM-022	Water	09/23/15 13:30	09/24/15 09:15
240-55783-23	GW-12607-092315-EM-023	Water	09/23/15 14:25	09/24/15 09:15
240-55783-24	TB-12607-092315-A	Water	09/23/15 00:00	09/24/15 09:15
240-55783-25	TB-12607-092315-B	Water	09/23/15 00:00	09/24/15 09:15

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092115-EM-001

Lab Sample ID: 240-55783-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.96	J	1.7	0.42	ug/L	1.67		8260B	Total/NA
1,1-Dichloroethene	2.1		1.7	0.75	ug/L	1.67		8260B	Total/NA
1,1,1-Trichloroethane	51		1.7	0.73	ug/L	1.67		8260B	Total/NA

Client Sample ID: GW-12607-092115-EM-002

Lab Sample ID: 240-55783-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.6		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092115-EM-003

Lab Sample ID: 240-55783-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092115-EM-004

Lab Sample ID: 240-55783-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092115-EM-005

Lab Sample ID: 240-55783-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J B	20	1.9	ug/L	2		8260B	Total/NA
Chloroform	0.99	J	2.0	0.50	ug/L	2		8260B	Total/NA
Methylene Chloride	1.2	J B	10	0.66	ug/L	2		8260B	Total/NA
Trichloroethene	45		2.0	0.44	ug/L	2		8260B	Total/NA
1,1,1-Trichloroethane	15		2.0	0.88	ug/L	2		8260B	Total/NA

Client Sample ID: GW-12607-092215-EM-006

Lab Sample ID: 240-55783-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J B	50	4.7	ug/L	5		8260B	Total/NA
Chloroform	1.3	J	5.0	1.3	ug/L	5		8260B	Total/NA
Methylene Chloride	2.9	J B	25	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	150		5.0	1.1	ug/L	5		8260B	Total/NA
1,1,1-Trichloroethane	30		5.0	2.2	ug/L	5		8260B	Total/NA

Client Sample ID: GW-12607-092215-EM-007

Lab Sample ID: 240-55783-7

No Detections.

Client Sample ID: GW-12607-092215-EM-008

Lab Sample ID: 240-55783-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.26	J	1.0	0.25	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092215-EM-009

Lab Sample ID: 240-55783-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.27	J	1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.31	J	1.0	0.30	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092215-EM-010

Lab Sample ID: 240-55783-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.90	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	1.2		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092215-EM-011

Lab Sample ID: 240-55783-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	36		1.0	0.22	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	14		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092215-EM-012

Lab Sample ID: 240-55783-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.30	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	5.9		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12607-092315-EM-013

Lab Sample ID: 240-55783-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	410000		800	15	ug/L	20		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-014

Lab Sample ID: 240-55783-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	390000		800	15	ug/L	20		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-015

Lab Sample ID: 240-55783-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	13000		40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-016

Lab Sample ID: 240-55783-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	18	J	40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-017

Lab Sample ID: 240-55783-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	20	J	40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-018

Lab Sample ID: 240-55783-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	44	F1	1.7	0.37	ug/L	1.67		8260B	Total/NA
1,1,1-Trichloroethane	13	F1	1.7	0.73	ug/L	1.67		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092315-EM-019

Lab Sample ID: 240-55783-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	350000		800	15	ug/L	20		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-020

Lab Sample ID: 240-55783-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	27	J	40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-021

Lab Sample ID: 240-55783-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	17	J	40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12607-092315-EM-022

Lab Sample ID: 240-55783-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	84000	B	25	2.8	ug/L	5		6010B	Total Recoverable
Nickel	11000		40	0.76	ug/L	1		6010B	Total Recoverable
Cr (VI)	65		5.0	2.1	mg/L	1000		7196A	Total/NA
Cr (III)	19		0.0050	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: GW-12607-092315-EM-023

Lab Sample ID: 240-55783-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.3	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Nickel	120		40	0.76	ug/L	1		6010B	Total Recoverable

Client Sample ID: TB-12607-092315-A

Lab Sample ID: 240-55783-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	B	10	0.94	ug/L	1		8260B	Total/NA
Methylene Chloride	2.1	J B	5.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: TB-12607-092315-B

Lab Sample ID: 240-55783-25

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7196A	Chromium, Hexavalent	SW846	TAL CAN
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-005

Date Collected: 09/21/15 16:35

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L	-		10/01/15 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		74 - 120					10/01/15 13:38	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-006

Date Collected: 09/22/15 09:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L	-		10/01/15 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		74 - 120					10/01/15 14:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-011

Date Collected: 09/22/15 15:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L	-		10/01/15 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 120					10/01/15 14:28	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092315-EM-018

Date Collected: 09/23/15 10:15

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L	-		10/01/15 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		74 - 120					10/01/15 14:53	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: TB-12607-092315-B

Date Collected: 09/23/15 00:00

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-25

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L	—		10/01/15 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		74 - 120					10/01/15 11:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-001

Date Collected: 09/21/15 12:15

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17	U	17	1.6	ug/L			09/29/15 15:37	1.67
Benzene	1.7	U	1.7	0.58	ug/L			09/29/15 15:37	1.67
Bromodichloromethane	1.7	U	1.7	0.48	ug/L			09/29/15 15:37	1.67
Bromoform	1.7	U	1.7	0.94	ug/L			09/29/15 15:37	1.67
Bromomethane	1.7	U	1.7	0.73	ug/L			09/29/15 15:37	1.67
2-Butanone (MEK)	17	U	17	0.89	ug/L			09/29/15 15:37	1.67
Carbon disulfide	8.4	U	8.4	0.63	ug/L			09/29/15 15:37	1.67
Carbon tetrachloride	1.7	U	1.7	0.72	ug/L			09/29/15 15:37	1.67
Chlorobenzene	1.7	U	1.7	0.42	ug/L			09/29/15 15:37	1.67
Chloroethane	1.7	U	1.7	0.53	ug/L			09/29/15 15:37	1.67
Chloroform	0.96	J	1.7	0.42	ug/L			09/29/15 15:37	1.67
Chloromethane	1.7	U	1.7	0.73	ug/L			09/29/15 15:37	1.67
1,1-Dichloroethane	1.7	U	1.7	0.50	ug/L			09/29/15 15:37	1.67
1,2-Dichloroethane	1.7	U	1.7	0.38	ug/L			09/29/15 15:37	1.67
1,1-Dichloroethene	2.1		1.7	0.75	ug/L			09/29/15 15:37	1.67
1,2-Dichloropropane	1.7	U	1.7	0.42	ug/L			09/29/15 15:37	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.77	ug/L			09/29/15 15:37	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.94	ug/L			09/29/15 15:37	1.67
Ethylbenzene	1.7	U	1.7	0.42	ug/L			09/29/15 15:37	1.67
2-Hexanone	17	U	17	0.80	ug/L			09/29/15 15:37	1.67
Methylene Chloride	8.4	U	8.4	0.55	ug/L			09/29/15 15:37	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.7	ug/L			09/29/15 15:37	1.67
Styrene	1.7	U	1.7	0.75	ug/L			09/29/15 15:37	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.37	ug/L			09/29/15 15:37	1.67
Tetrachloroethene	1.7	U	1.7	0.52	ug/L			09/29/15 15:37	1.67
Toluene	1.7	U	1.7	0.38	ug/L			09/29/15 15:37	1.67
Trichloroethene	1.7	U	1.7	0.37	ug/L			09/29/15 15:37	1.67
Vinyl chloride	1.7	U	1.7	0.48	ug/L			09/29/15 15:37	1.67
Xylenes, Total	3.3	U	3.3	0.87	ug/L			09/29/15 15:37	1.67
1,1,1-Trichloroethane	51		1.7	0.73	ug/L			09/29/15 15:37	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.40	ug/L			09/29/15 15:37	1.67
Cyclohexane	1.7	U	1.7	0.75	ug/L			09/29/15 15:37	1.67
1,2-Dibromo-3-Chloropropane	1.7	U	1.7	1.4	ug/L			09/29/15 15:37	1.67
1,2-Dibromoethane	1.7	U	1.7	0.53	ug/L			09/29/15 15:37	1.67
Dichlorodifluoromethane	1.7	U	1.7	0.53	ug/L			09/29/15 15:37	1.67
cis-1,2-Dichloroethene	1.7	U	1.7	0.43	ug/L			09/29/15 15:37	1.67
trans-1,2-Dichloroethene	1.7	U	1.7	0.50	ug/L			09/29/15 15:37	1.67
Isopropylbenzene	1.7	U	1.7	0.58	ug/L			09/29/15 15:37	1.67
Methyl acetate	17	U	17	3.8	ug/L			09/29/15 15:37	1.67
Methyl tert-butyl ether	1.7	U	1.7	0.33	ug/L			09/29/15 15:37	1.67
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U	1.7	0.75	ug/L			09/29/15 15:37	1.67
1,2,4-Trichlorobenzene	1.7	U	1.7	0.53	ug/L			09/29/15 15:37	1.67
1,2-Dichlorobenzene	1.7	U	1.7	0.42	ug/L			09/29/15 15:37	1.67
1,3-Dichlorobenzene	1.7	U	1.7	0.32	ug/L			09/29/15 15:37	1.67
1,4-Dichlorobenzene	1.7	U	1.7	0.45	ug/L			09/29/15 15:37	1.67
Trichlorofluoromethane	1.7	U	1.7	0.82	ug/L			09/29/15 15:37	1.67
Dibromochloromethane	1.7	U	1.7	0.72	ug/L			09/29/15 15:37	1.67
Methylcyclohexane	1.7	U	1.7	0.72	ug/L			09/29/15 15:37	1.67

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	97		78 - 125		09/29/15 15:37	1.67
4-Bromofluorobenzene (Surr)	88		61 - 120		09/29/15 15:37	1.67
Toluene-d8 (Surr)	86		80 - 120		09/29/15 15:37	1.67
Dibromofluoromethane (Surr)	99		79 - 120		09/29/15 15:37	1.67

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-002

Date Collected: 09/21/15 13:30

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			09/29/15 16:00	1
Benzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:00	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			09/29/15 16:00	1
Bromoform	1.0	U	1.0	0.56	ug/L			09/29/15 16:00	1
Bromomethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:00	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			09/29/15 16:00	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			09/29/15 16:00	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			09/29/15 16:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:00	1
Chloroform	1.0	U	1.0	0.25	ug/L			09/29/15 16:00	1
Chloromethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:00	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/29/15 16:00	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			09/29/15 16:00	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			09/29/15 16:00	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			09/29/15 16:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			09/29/15 16:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			09/29/15 16:00	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:00	1
2-Hexanone	10	U	10	0.48	ug/L			09/29/15 16:00	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			09/29/15 16:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			09/29/15 16:00	1
Styrene	1.0	U	1.0	0.45	ug/L			09/29/15 16:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			09/29/15 16:00	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			09/29/15 16:00	1
Toluene	1.0	U	1.0	0.23	ug/L			09/29/15 16:00	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			09/29/15 16:00	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			09/29/15 16:00	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			09/29/15 16:00	1
1,1,1-Trichloroethane	8.6		1.0	0.44	ug/L			09/29/15 16:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/15 16:00	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			09/29/15 16:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			09/29/15 16:00	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			09/29/15 16:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/29/15 16:00	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:00	1
Methyl acetate	10	U	10	2.3	ug/L			09/29/15 16:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			09/29/15 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			09/29/15 16:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			09/29/15 16:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			09/29/15 16:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			09/29/15 16:00	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			09/29/15 16:00	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			09/29/15 16:00	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			09/29/15 16:00	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	104		78 - 125		09/29/15 16:00	1
4-Bromofluorobenzene (Surr)	93		61 - 120		09/29/15 16:00	1
Toluene-d8 (Surr)	91		80 - 120		09/29/15 16:00	1
Dibromofluoromethane (Surr)	113		79 - 120		09/29/15 16:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-003

Date Collected: 09/21/15 14:55

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			09/29/15 16:22	1
Benzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:22	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			09/29/15 16:22	1
Bromoform	1.0	U	1.0	0.56	ug/L			09/29/15 16:22	1
Bromomethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:22	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			09/29/15 16:22	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			09/29/15 16:22	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			09/29/15 16:22	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:22	1
Chloroform	1.0	U	1.0	0.25	ug/L			09/29/15 16:22	1
Chloromethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:22	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/29/15 16:22	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			09/29/15 16:22	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			09/29/15 16:22	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			09/29/15 16:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			09/29/15 16:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			09/29/15 16:22	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:22	1
2-Hexanone	10	U	10	0.48	ug/L			09/29/15 16:22	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			09/29/15 16:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			09/29/15 16:22	1
Styrene	1.0	U	1.0	0.45	ug/L			09/29/15 16:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			09/29/15 16:22	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			09/29/15 16:22	1
Toluene	1.0	U	1.0	0.23	ug/L			09/29/15 16:22	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			09/29/15 16:22	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			09/29/15 16:22	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			09/29/15 16:22	1
1,1,1-Trichloroethane	12		1.0	0.44	ug/L			09/29/15 16:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/15 16:22	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			09/29/15 16:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			09/29/15 16:22	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			09/29/15 16:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/29/15 16:22	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:22	1
Methyl acetate	10	U	10	2.3	ug/L			09/29/15 16:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			09/29/15 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			09/29/15 16:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			09/29/15 16:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			09/29/15 16:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			09/29/15 16:22	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			09/29/15 16:22	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			09/29/15 16:22	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			09/29/15 16:22	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	95		78 - 125		09/29/15 16:22	1
4-Bromofluorobenzene (Surr)	85		61 - 120		09/29/15 16:22	1
Toluene-d8 (Surr)	85		80 - 120		09/29/15 16:22	1
Dibromofluoromethane (Surr)	103		79 - 120		09/29/15 16:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-004

Date Collected: 09/21/15 15:50

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			09/29/15 16:45	1
Benzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:45	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			09/29/15 16:45	1
Bromoform	1.0	U	1.0	0.56	ug/L			09/29/15 16:45	1
Bromomethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:45	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			09/29/15 16:45	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			09/29/15 16:45	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			09/29/15 16:45	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:45	1
Chloroform	1.0	U	1.0	0.25	ug/L			09/29/15 16:45	1
Chloromethane	1.0	U	1.0	0.44	ug/L			09/29/15 16:45	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/29/15 16:45	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			09/29/15 16:45	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			09/29/15 16:45	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			09/29/15 16:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			09/29/15 16:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			09/29/15 16:45	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:45	1
2-Hexanone	10	U	10	0.48	ug/L			09/29/15 16:45	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			09/29/15 16:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			09/29/15 16:45	1
Styrene	1.0	U	1.0	0.45	ug/L			09/29/15 16:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			09/29/15 16:45	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			09/29/15 16:45	1
Toluene	1.0	U	1.0	0.23	ug/L			09/29/15 16:45	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			09/29/15 16:45	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			09/29/15 16:45	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			09/29/15 16:45	1
1,1,1-Trichloroethane	12		1.0	0.44	ug/L			09/29/15 16:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/15 16:45	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			09/29/15 16:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			09/29/15 16:45	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			09/29/15 16:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			09/29/15 16:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/29/15 16:45	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			09/29/15 16:45	1
Methyl acetate	10	U	10	2.3	ug/L			09/29/15 16:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			09/29/15 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			09/29/15 16:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			09/29/15 16:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 16:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			09/29/15 16:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			09/29/15 16:45	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			09/29/15 16:45	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			09/29/15 16:45	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			09/29/15 16:45	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	105		78 - 125		09/29/15 16:45	1
4-Bromofluorobenzene (Surr)	94		61 - 120		09/29/15 16:45	1
Toluene-d8 (Surr)	91		80 - 120		09/29/15 16:45	1
Dibromofluoromethane (Surr)	112		79 - 120		09/29/15 16:45	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092115-EM-005

Date Collected: 09/21/15 16:35

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.0	J B	20	1.9	ug/L			09/30/15 21:12	2
Benzene	2.0	U	2.0	0.70	ug/L			09/30/15 21:12	2
Bromodichloromethane	2.0	U	2.0	0.58	ug/L			09/30/15 21:12	2
Bromoform	2.0	U	2.0	1.1	ug/L			09/30/15 21:12	2
Bromomethane	2.0	U	2.0	0.88	ug/L			09/30/15 21:12	2
2-Butanone (MEK)	20	U	20	1.1	ug/L			09/30/15 21:12	2
Carbon disulfide	10	U	10	0.76	ug/L			09/30/15 21:12	2
Carbon tetrachloride	2.0	U	2.0	0.86	ug/L			09/30/15 21:12	2
Chlorobenzene	2.0	U	2.0	0.50	ug/L			09/30/15 21:12	2
Chloroethane	2.0	U	2.0	0.64	ug/L			09/30/15 21:12	2
Chloroform	0.99	J	2.0	0.50	ug/L			09/30/15 21:12	2
Chloromethane	2.0	U	2.0	0.88	ug/L			09/30/15 21:12	2
1,1-Dichloroethane	2.0	U	2.0	0.60	ug/L			09/30/15 21:12	2
1,2-Dichloroethane	2.0	U	2.0	0.46	ug/L			09/30/15 21:12	2
1,1-Dichloroethene	2.0	U	2.0	0.90	ug/L			09/30/15 21:12	2
1,2-Dichloropropane	2.0	U	2.0	0.50	ug/L			09/30/15 21:12	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.92	ug/L			09/30/15 21:12	2
trans-1,3-Dichloropropene	2.0	U	2.0	1.1	ug/L			09/30/15 21:12	2
Ethylbenzene	2.0	U	2.0	0.50	ug/L			09/30/15 21:12	2
2-Hexanone	20	U	20	0.96	ug/L			09/30/15 21:12	2
Methylene Chloride	1.2	J B	10	0.66	ug/L			09/30/15 21:12	2
4-Methyl-2-pentanone (MIBK)	20	U	20	2.0	ug/L			09/30/15 21:12	2
Styrene	2.0	U	2.0	0.90	ug/L			09/30/15 21:12	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.44	ug/L			09/30/15 21:12	2
Tetrachloroethene	2.0	U	2.0	0.62	ug/L			09/30/15 21:12	2
Toluene	2.0	U	2.0	0.46	ug/L			09/30/15 21:12	2
Trichloroethene	45		2.0	0.44	ug/L			09/30/15 21:12	2
Vinyl chloride	2.0	U	2.0	0.58	ug/L			09/30/15 21:12	2
Xylenes, Total	4.0	U	4.0	1.0	ug/L			09/30/15 21:12	2
1,1,1-Trichloroethane	15		2.0	0.88	ug/L			09/30/15 21:12	2
1,1,2-Trichloroethane	2.0	U	2.0	0.48	ug/L			09/30/15 21:12	2
Cyclohexane	2.0	U	2.0	0.90	ug/L			09/30/15 21:12	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	1.6	ug/L			09/30/15 21:12	2
1,2-Dibromoethane	2.0	U	2.0	0.64	ug/L			09/30/15 21:12	2
Dichlorodifluoromethane	2.0	U	2.0	0.64	ug/L			09/30/15 21:12	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.52	ug/L			09/30/15 21:12	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.60	ug/L			09/30/15 21:12	2
Isopropylbenzene	2.0	U	2.0	0.70	ug/L			09/30/15 21:12	2
Methyl acetate	20	U	20	4.5	ug/L			09/30/15 21:12	2
Methyl tert-butyl ether	2.0	U	2.0	0.40	ug/L			09/30/15 21:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.90	ug/L			09/30/15 21:12	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.64	ug/L			09/30/15 21:12	2
1,2-Dichlorobenzene	2.0	U	2.0	0.50	ug/L			09/30/15 21:12	2
1,3-Dichlorobenzene	2.0	U	2.0	0.38	ug/L			09/30/15 21:12	2
1,4-Dichlorobenzene	2.0	U	2.0	0.54	ug/L			09/30/15 21:12	2
Trichlorofluoromethane	2.0	U	2.0	0.98	ug/L			09/30/15 21:12	2
Dibromochloromethane	2.0	U	2.0	0.86	ug/L			09/30/15 21:12	2
Methylcyclohexane	2.0	U	2.0	0.86	ug/L			09/30/15 21:12	2

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	113		78 - 125		09/30/15 21:12	2
4-Bromofluorobenzene (Surr)	72		61 - 120		09/30/15 21:12	2
Toluene-d8 (Surr)	86		80 - 120		09/30/15 21:12	2
Dibromofluoromethane (Surr)	106		79 - 120		09/30/15 21:12	2

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-006

Date Collected: 09/22/15 09:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.1	J B	50	4.7	ug/L			10/02/15 19:10	5
Benzene	5.0	U	5.0	1.8	ug/L			10/02/15 19:10	5
Bromodichloromethane	5.0	U	5.0	1.5	ug/L			10/02/15 19:10	5
Bromoform	5.0	U	5.0	2.8	ug/L			10/02/15 19:10	5
Bromomethane	5.0	U	5.0	2.2	ug/L			10/02/15 19:10	5
2-Butanone (MEK)	50	U	50	2.7	ug/L			10/02/15 19:10	5
Carbon disulfide	25	U	25	1.9	ug/L			10/02/15 19:10	5
Carbon tetrachloride	5.0	U	5.0	2.2	ug/L			10/02/15 19:10	5
Chlorobenzene	5.0	U	5.0	1.3	ug/L			10/02/15 19:10	5
Chloroethane	5.0	U	5.0	1.6	ug/L			10/02/15 19:10	5
Chloroform	1.3	J	5.0	1.3	ug/L			10/02/15 19:10	5
Chloromethane	5.0	U	5.0	2.2	ug/L			10/02/15 19:10	5
1,1-Dichloroethane	5.0	U	5.0	1.5	ug/L			10/02/15 19:10	5
1,2-Dichloroethane	5.0	U	5.0	1.2	ug/L			10/02/15 19:10	5
1,1-Dichloroethene	5.0	U	5.0	2.3	ug/L			10/02/15 19:10	5
1,2-Dichloropropane	5.0	U	5.0	1.3	ug/L			10/02/15 19:10	5
cis-1,3-Dichloropropene	5.0	U	5.0	2.3	ug/L			10/02/15 19:10	5
trans-1,3-Dichloropropene	5.0	U	5.0	2.8	ug/L			10/02/15 19:10	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			10/02/15 19:10	5
2-Hexanone	50	U	50	2.4	ug/L			10/02/15 19:10	5
Methylene Chloride	2.9	J B	25	1.7	ug/L			10/02/15 19:10	5
4-Methyl-2-pentanone (MIBK)	50	U	50	5.0	ug/L			10/02/15 19:10	5
Styrene	5.0	U	5.0	2.3	ug/L			10/02/15 19:10	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			10/02/15 19:10	5
Tetrachloroethene	5.0	U	5.0	1.6	ug/L			10/02/15 19:10	5
Toluene	5.0	U	5.0	1.2	ug/L			10/02/15 19:10	5
Trichloroethene	150		5.0	1.1	ug/L			10/02/15 19:10	5
Vinyl chloride	5.0	U	5.0	1.5	ug/L			10/02/15 19:10	5
Xylenes, Total	10	U	10	2.6	ug/L			10/02/15 19:10	5
1,1,1-Trichloroethane	30		5.0	2.2	ug/L			10/02/15 19:10	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			10/02/15 19:10	5
Cyclohexane	5.0	U	5.0	2.3	ug/L			10/02/15 19:10	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	4.1	ug/L			10/02/15 19:10	5
1,2-Dibromoethane	5.0	U	5.0	1.6	ug/L			10/02/15 19:10	5
Dichlorodifluoromethane	5.0	U	5.0	1.6	ug/L			10/02/15 19:10	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.3	ug/L			10/02/15 19:10	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			10/02/15 19:10	5
Isopropylbenzene	5.0	U	5.0	1.8	ug/L			10/02/15 19:10	5
Methyl acetate	50	U	50	11	ug/L			10/02/15 19:10	5
Methyl tert-butyl ether	5.0	U	5.0	1.0	ug/L			10/02/15 19:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	2.3	ug/L			10/02/15 19:10	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.6	ug/L			10/02/15 19:10	5
1,2-Dichlorobenzene	5.0	U	5.0	1.3	ug/L			10/02/15 19:10	5
1,3-Dichlorobenzene	5.0	U	5.0	0.95	ug/L			10/02/15 19:10	5
1,4-Dichlorobenzene	5.0	U	5.0	1.4	ug/L			10/02/15 19:10	5
Trichlorofluoromethane	5.0	U	5.0	2.5	ug/L			10/02/15 19:10	5
Dibromochloromethane	5.0	U	5.0	2.2	ug/L			10/02/15 19:10	5
Methylcyclohexane	5.0	U	5.0	2.2	ug/L			10/02/15 19:10	5

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	111		78 - 125		10/02/15 19:10	5
4-Bromofluorobenzene (Surr)	74		61 - 120		10/02/15 19:10	5
Toluene-d8 (Surr)	84		80 - 120		10/02/15 19:10	5
Dibromofluoromethane (Surr)	104		79 - 120		10/02/15 19:10	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-007

Date Collected: 09/22/15 10:50

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/02/15 19:32	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 19:32	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 19:32	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 19:32	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:32	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 19:32	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 19:32	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 19:32	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:32	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/02/15 19:32	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:32	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 19:32	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 19:32	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 19:32	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 19:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 19:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 19:32	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:32	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 19:32	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/02/15 19:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 19:32	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 19:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 19:32	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 19:32	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 19:32	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/02/15 19:32	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 19:32	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 19:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 19:32	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 19:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 19:32	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 19:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 19:32	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 19:32	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 19:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 19:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 19:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 19:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 19:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 19:32	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 19:32	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 19:32	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 19:32	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	115		78 - 125		10/02/15 19:32	1
4-Bromofluorobenzene (Surr)	74		61 - 120		10/02/15 19:32	1
Toluene-d8 (Surr)	81		80 - 120		10/02/15 19:32	1
Dibromofluoromethane (Surr)	106		79 - 120		10/02/15 19:32	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-008

Date Collected: 09/22/15 12:20

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/02/15 19:55	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 19:55	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 19:55	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 19:55	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:55	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 19:55	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 19:55	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 19:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:55	1
Chloroform	0.26	J	1.0	0.25	ug/L			10/02/15 19:55	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:55	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 19:55	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 19:55	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 19:55	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 19:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 19:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 19:55	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:55	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 19:55	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/02/15 19:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 19:55	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 19:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 19:55	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 19:55	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 19:55	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/02/15 19:55	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 19:55	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 19:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/02/15 19:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 19:55	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 19:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 19:55	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 19:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 19:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 19:55	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 19:55	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 19:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 19:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 19:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 19:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 19:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 19:55	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 19:55	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 19:55	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 19:55	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	115		78 - 125		10/02/15 19:55	1
4-Bromofluorobenzene (Surr)	73		61 - 120		10/02/15 19:55	1
Toluene-d8 (Surr)	81		80 - 120		10/02/15 19:55	1
Dibromofluoromethane (Surr)	105		79 - 120		10/02/15 19:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-009

Date Collected: 09/22/15 12:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/02/15 20:18	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 20:18	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 20:18	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 20:18	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 20:18	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 20:18	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 20:18	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 20:18	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:18	1
Chloroform	0.27	J	1.0	0.25	ug/L			10/02/15 20:18	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 20:18	1
1,1-Dichloroethane	0.31	J	1.0	0.30	ug/L			10/02/15 20:18	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 20:18	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 20:18	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 20:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 20:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 20:18	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:18	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 20:18	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/02/15 20:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 20:18	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 20:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 20:18	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 20:18	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 20:18	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/02/15 20:18	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 20:18	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 20:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/02/15 20:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 20:18	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 20:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 20:18	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 20:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 20:18	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 20:18	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 20:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 20:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 20:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 20:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 20:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 20:18	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 20:18	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 20:18	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 20:18	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	113		78 - 125		10/02/15 20:18	1
4-Bromofluorobenzene (Surr)	72		61 - 120		10/02/15 20:18	1
Toluene-d8 (Surr)	82		80 - 120		10/02/15 20:18	1
Dibromofluoromethane (Surr)	108		79 - 120		10/02/15 20:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-010

Date Collected: 09/22/15 14:40

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/02/15 20:40	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 20:40	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 20:40	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 20:40	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 20:40	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 20:40	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 20:40	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 20:40	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:40	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/02/15 20:40	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 20:40	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 20:40	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 20:40	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 20:40	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 20:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 20:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 20:40	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:40	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 20:40	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/02/15 20:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 20:40	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 20:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 20:40	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 20:40	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 20:40	1
Trichloroethene	0.90	J	1.0	0.22	ug/L			10/02/15 20:40	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 20:40	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 20:40	1
1,1,1-Trichloroethane	1.2		1.0	0.44	ug/L			10/02/15 20:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 20:40	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 20:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 20:40	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 20:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 20:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 20:40	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 20:40	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 20:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 20:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 20:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 20:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 20:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 20:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 20:40	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 20:40	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 20:40	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 20:40	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	117		78 - 125		10/02/15 20:40	1
4-Bromofluorobenzene (Surr)	75		61 - 120		10/02/15 20:40	1
Toluene-d8 (Surr)	83		80 - 120		10/02/15 20:40	1
Dibromofluoromethane (Surr)	111		79 - 120		10/02/15 20:40	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-011

Date Collected: 09/22/15 15:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/02/15 21:03	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 21:03	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 21:03	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 21:03	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 21:03	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 21:03	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 21:03	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 21:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 21:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 21:03	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/02/15 21:03	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 21:03	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 21:03	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 21:03	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 21:03	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 21:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 21:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 21:03	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 21:03	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 21:03	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/02/15 21:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 21:03	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 21:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 21:03	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 21:03	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 21:03	1
Trichloroethene	36		1.0	0.22	ug/L			10/02/15 21:03	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 21:03	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 21:03	1
1,1,1-Trichloroethane	14		1.0	0.44	ug/L			10/02/15 21:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 21:03	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 21:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 21:03	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 21:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 21:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 21:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 21:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 21:03	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 21:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 21:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 21:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 21:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 21:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 21:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 21:03	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 21:03	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 21:03	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 21:03	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	112		78 - 125		10/02/15 21:03	1
4-Bromofluorobenzene (Surr)	73		61 - 120		10/02/15 21:03	1
Toluene-d8 (Surr)	85		80 - 120		10/02/15 21:03	1
Dibromofluoromethane (Surr)	104		79 - 120		10/02/15 21:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092215-EM-012

Date Collected: 09/22/15 16:35

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/05/15 14:49	1
Benzene	1.0	U	1.0	0.35	ug/L			10/05/15 14:49	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/05/15 14:49	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/05/15 14:49	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/05/15 14:49	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/05/15 14:49	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/05/15 14:49	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/05/15 14:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:49	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/05/15 14:49	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/05/15 14:49	1
1,1-Dichloroethane	1.1		1.0	0.30	ug/L			10/05/15 14:49	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/05/15 14:49	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/05/15 14:49	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/05/15 14:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/05/15 14:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/05/15 14:49	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:49	1
2-Hexanone	10	U	10	0.48	ug/L			10/05/15 14:49	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/05/15 14:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/05/15 14:49	1
Styrene	1.0	U	1.0	0.45	ug/L			10/05/15 14:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/05/15 14:49	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/05/15 14:49	1
Toluene	1.0	U	1.0	0.23	ug/L			10/05/15 14:49	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/05/15 14:49	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/05/15 14:49	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/05/15 14:49	1
1,1,1-Trichloroethane	5.9		1.0	0.44	ug/L			10/05/15 14:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/05/15 14:49	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/05/15 14:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/05/15 14:49	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/05/15 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/05/15 14:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/05/15 14:49	1
Methyl acetate	10	U	10	2.3	ug/L			10/05/15 14:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/05/15 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/05/15 14:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/05/15 14:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/05/15 14:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/05/15 14:49	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/05/15 14:49	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/05/15 14:49	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/05/15 14:49	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	111		78 - 125		10/05/15 14:49	1
4-Bromofluorobenzene (Surr)	78		61 - 120		10/05/15 14:49	1
Toluene-d8 (Surr)	83		80 - 120		10/05/15 14:49	1
Dibromofluoromethane (Surr)	107		79 - 120		10/05/15 14:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: GW-12607-092315-EM-018

Date Collected: 09/23/15 10:15

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-18

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17	U	17	1.6	ug/L			10/05/15 21:33	1.67
Benzene	1.7	U F1	1.7	0.58	ug/L			10/05/15 21:33	1.67
Bromodichloromethane	1.7	U	1.7	0.48	ug/L			10/05/15 21:33	1.67
Bromoform	1.7	U	1.7	0.94	ug/L			10/05/15 21:33	1.67
Bromomethane	1.7	U	1.7	0.73	ug/L			10/05/15 21:33	1.67
2-Butanone (MEK)	17	U	17	0.89	ug/L			10/05/15 21:33	1.67
Carbon disulfide	8.4	U F1	8.4	0.63	ug/L			10/05/15 21:33	1.67
Carbon tetrachloride	1.7	U F1	1.7	0.72	ug/L			10/05/15 21:33	1.67
Chlorobenzene	1.7	U F1	1.7	0.42	ug/L			10/05/15 21:33	1.67
Chloroethane	1.7	U	1.7	0.53	ug/L			10/05/15 21:33	1.67
Chloroform	1.7	U	1.7	0.42	ug/L			10/05/15 21:33	1.67
Chloromethane	1.7	U	1.7	0.73	ug/L			10/05/15 21:33	1.67
1,1-Dichloroethane	1.7	U	1.7	0.50	ug/L			10/05/15 21:33	1.67
1,2-Dichloroethane	1.7	U	1.7	0.38	ug/L			10/05/15 21:33	1.67
1,1-Dichloroethene	1.7	U F1	1.7	0.75	ug/L			10/05/15 21:33	1.67
1,2-Dichloropropane	1.7	U	1.7	0.42	ug/L			10/05/15 21:33	1.67
cis-1,3-Dichloropropene	1.7	U	1.7	0.77	ug/L			10/05/15 21:33	1.67
trans-1,3-Dichloropropene	1.7	U	1.7	0.94	ug/L			10/05/15 21:33	1.67
Ethylbenzene	1.7	U F1	1.7	0.42	ug/L			10/05/15 21:33	1.67
2-Hexanone	17	U	17	0.80	ug/L			10/05/15 21:33	1.67
Methylene Chloride	8.4	U	8.4	0.55	ug/L			10/05/15 21:33	1.67
4-Methyl-2-pentanone (MIBK)	17	U	17	1.7	ug/L			10/05/15 21:33	1.67
Styrene	1.7	U F1	1.7	0.75	ug/L			10/05/15 21:33	1.67
1,1,2,2-Tetrachloroethane	1.7	U	1.7	0.37	ug/L			10/05/15 21:33	1.67
Tetrachloroethene	1.7	U F1	1.7	0.52	ug/L			10/05/15 21:33	1.67
Toluene	1.7	U F1	1.7	0.38	ug/L			10/05/15 21:33	1.67
Trichloroethene	44	F1	1.7	0.37	ug/L			10/05/15 21:33	1.67
Vinyl chloride	1.7	U	1.7	0.48	ug/L			10/05/15 21:33	1.67
Xylenes, Total	3.3	U F1	3.3	0.87	ug/L			10/05/15 21:33	1.67
1,1,1-Trichloroethane	13	F1	1.7	0.73	ug/L			10/05/15 21:33	1.67
1,1,2-Trichloroethane	1.7	U	1.7	0.40	ug/L			10/05/15 21:33	1.67
Cyclohexane	1.7	U F1	1.7	0.75	ug/L			10/05/15 21:33	1.67
1,2-Dibromo-3-Chloropropane	1.7	U	1.7	1.4	ug/L			10/05/15 21:33	1.67
1,2-Dibromoethane	1.7	U	1.7	0.53	ug/L			10/05/15 21:33	1.67
Dichlorodifluoromethane	1.7	U	1.7	0.53	ug/L			10/05/15 21:33	1.67
cis-1,2-Dichloroethene	1.7	U	1.7	0.43	ug/L			10/05/15 21:33	1.67
trans-1,2-Dichloroethene	1.7	U F1	1.7	0.50	ug/L			10/05/15 21:33	1.67
Isopropylbenzene	1.7	U F1	1.7	0.58	ug/L			10/05/15 21:33	1.67
Methyl acetate	17	U	17	3.8	ug/L			10/05/15 21:33	1.67
Methyl tert-butyl ether	1.7	U	1.7	0.33	ug/L			10/05/15 21:33	1.67
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U F1	1.7	0.75	ug/L			10/05/15 21:33	1.67
1,2,4-Trichlorobenzene	1.7	U F1	1.7	0.53	ug/L			10/05/15 21:33	1.67
1,2-Dichlorobenzene	1.7	U F1	1.7	0.42	ug/L			10/05/15 21:33	1.67
1,3-Dichlorobenzene	1.7	U F1	1.7	0.32	ug/L			10/05/15 21:33	1.67
1,4-Dichlorobenzene	1.7	U F1	1.7	0.45	ug/L			10/05/15 21:33	1.67
Trichlorofluoromethane	1.7	U	1.7	0.82	ug/L			10/05/15 21:33	1.67
Dibromochloromethane	1.7	U	1.7	0.72	ug/L			10/05/15 21:33	1.67
Methylcyclohexane	1.7	U F1	1.7	0.72	ug/L			10/05/15 21:33	1.67

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	119		78 - 125		10/05/15 21:33	1.67
4-Bromofluorobenzene (Surr)	73		61 - 120		10/05/15 21:33	1.67
Toluene-d8 (Surr)	83		80 - 120		10/05/15 21:33	1.67
Dibromofluoromethane (Surr)	112		79 - 120		10/05/15 21:33	1.67

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Client Sample ID: TB-12607-092315-A

Date Collected: 09/23/15 00:00

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-24

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17	B	10	0.94	ug/L			10/02/15 17:39	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 17:39	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 17:39	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 17:39	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 17:39	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 17:39	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 17:39	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 17:39	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 17:39	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 17:39	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/02/15 17:39	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 17:39	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 17:39	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 17:39	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 17:39	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 17:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 17:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 17:39	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 17:39	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 17:39	1
Methylene Chloride	2.1	J B	5.0	0.33	ug/L			10/02/15 17:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 17:39	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 17:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 17:39	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 17:39	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 17:39	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/02/15 17:39	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 17:39	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 17:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/02/15 17:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 17:39	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 17:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 17:39	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 17:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 17:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 17:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 17:39	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 17:39	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 17:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 17:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 17:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 17:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 17:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 17:39	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 17:39	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 17:39	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 17:39	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

<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)	108		78 - 125		10/02/15 17:39	1
4-Bromofluorobenzene (Surr)	73		61 - 120		10/02/15 17:39	1
Toluene-d8 (Surr)	83		80 - 120		10/02/15 17:39	1
Dibromofluoromethane (Surr)	107		79 - 120		10/02/15 17:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-013

Date Collected: 09/23/15 09:20

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-13

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	410000		800	15	ug/L		09/25/15 10:13	09/29/15 11:32	20

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-014

Date Collected: 09/23/15 09:25

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-14

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	390000		800	15	ug/L		09/25/15 10:13	09/29/15 11:44	20

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-015

Date Collected: 09/23/15 09:35

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	13000		40	0.76	ug/L		09/25/15 10:13	09/28/15 17:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-016

Date Collected: 09/23/15 10:10

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-16

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	18	J	40	0.76	ug/L		09/25/15 10:13	09/28/15 17:47	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-017

Date Collected: 09/23/15 10:40

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-17

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	20	J	40	0.76	ug/L		09/25/15 10:13	09/28/15 17:51	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-019

Date Collected: 09/23/15 11:25

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-19

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	350000		800	15	ug/L		09/25/15 10:13	09/29/15 11:48	20

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-020

Date Collected: 09/23/15 13:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	27	J	40	0.76	ug/L		09/25/15 10:13	09/28/15 18:00	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-021

Date Collected: 09/23/15 15:10

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-21

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	17	J	40	0.76	ug/L		09/25/15 10:13	09/28/15 18:04	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-022

Date Collected: 09/23/15 13:30

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-22

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	84000	B	25	2.8	ug/L		09/25/15 10:24	09/28/15 19:54	5
Nickel	11000		40	0.76	ug/L		09/25/15 10:24	09/28/15 11:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Method: 6010B - Metals (ICP) - Total Recoverable

Client Sample ID: GW-12607-092315-EM-023

Date Collected: 09/23/15 14:25

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	2.3	J	5.0	0.55	ug/L		09/25/15 10:13	09/28/15 18:16	1
Nickel	120		40	0.76	ug/L		09/25/15 10:13	09/28/15 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

General Chemistry

Client Sample ID: GW-12607-092315-EM-022

Date Collected: 09/23/15 13:30

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-22

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	65		5.0	2.1	mg/L			09/24/15 12:30	1000
Cr (III)	19		0.0050	0.0050	mg/L			09/29/15 17:14	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

General Chemistry

Client Sample ID: GW-12607-092315-EM-023

Date Collected: 09/23/15 14:25

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-23

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0050	U	0.0050	0.0021	mg/L	—		09/24/15 12:30	1
Cr (III)	0.0050	U	0.0050	0.0050	mg/L			09/29/15 17:14	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

GC/MS VOA

Analysis Batch: 199492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-1	GW-12607-092115-EM-001	Total/NA	Water	8260B	
240-55783-2	GW-12607-092115-EM-002	Total/NA	Water	8260B	
240-55783-3	GW-12607-092115-EM-003	Total/NA	Water	8260B	
240-55783-4	GW-12607-092115-EM-004	Total/NA	Water	8260B	
LCS 240-199492/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-199492/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 199757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-5	GW-12607-092115-EM-005	Total/NA	Water	8260B	
LCS 240-199757/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-199757/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 199909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-5	GW-12607-092115-EM-005	Total/NA	Water	8260B SIM	
240-55783-6	GW-12607-092215-EM-006	Total/NA	Water	8260B SIM	
240-55783-11	GW-12607-092215-EM-011	Total/NA	Water	8260B SIM	
240-55783-18	GW-12607-092315-EM-018	Total/NA	Water	8260B SIM	
240-55783-18 MS	GW-12607-092315-EM-018	Total/NA	Water	8260B SIM	
240-55783-18 MSD	GW-12607-092315-EM-018	Total/NA	Water	8260B SIM	
240-55783-25	TB-12607-092315-B	Total/NA	Water	8260B SIM	
LCS 240-199909/4	Lab Control Sample	Total/NA	Water	8260B SIM	
MB 240-199909/5	Method Blank	Total/NA	Water	8260B SIM	

Analysis Batch: 200149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-6	GW-12607-092215-EM-006	Total/NA	Water	8260B	
240-55783-7	GW-12607-092215-EM-007	Total/NA	Water	8260B	
240-55783-8	GW-12607-092215-EM-008	Total/NA	Water	8260B	
240-55783-9	GW-12607-092215-EM-009	Total/NA	Water	8260B	
240-55783-10	GW-12607-092215-EM-010	Total/NA	Water	8260B	
240-55783-11	GW-12607-092215-EM-011	Total/NA	Water	8260B	
240-55783-24	TB-12607-092315-A	Total/NA	Water	8260B	
LCS 240-200149/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-200149/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 200347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-12	GW-12607-092215-EM-012	Total/NA	Water	8260B	
240-55783-18	GW-12607-092315-EM-018	Total/NA	Water	8260B	
240-55783-18 MS	GW-12607-092315-EM-018	Total/NA	Water	8260B	
240-55783-18 MSD	GW-12607-092315-EM-018	Total/NA	Water	8260B	
LCS 240-200347/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-200347/6	Method Blank	Total/NA	Water	8260B	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Metals

Prep Batch: 199074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-13	GW-12607-092315-EM-013	Total Recoverable	Water	3005A	
240-55783-14	GW-12607-092315-EM-014	Total Recoverable	Water	3005A	
240-55783-15	GW-12607-092315-EM-015	Total Recoverable	Water	3005A	
240-55783-16	GW-12607-092315-EM-016	Total Recoverable	Water	3005A	
240-55783-17	GW-12607-092315-EM-017	Total Recoverable	Water	3005A	
240-55783-19	GW-12607-092315-EM-019	Total Recoverable	Water	3005A	
240-55783-20	GW-12607-092315-EM-020	Total Recoverable	Water	3005A	
240-55783-21	GW-12607-092315-EM-021	Total Recoverable	Water	3005A	
240-55783-23	GW-12607-092315-EM-023	Total Recoverable	Water	3005A	
LCS 240-199074/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-199074/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 199077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-22	GW-12607-092315-EM-022	Total Recoverable	Water	3005A	
240-55783-22 MS	GW-12607-092315-EM-022	Total Recoverable	Water	3005A	
240-55783-22 MSD	GW-12607-092315-EM-022	Total Recoverable	Water	3005A	
LCS 240-199077/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-199077/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 199445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-15	GW-12607-092315-EM-015	Total Recoverable	Water	6010B	199074
240-55783-16	GW-12607-092315-EM-016	Total Recoverable	Water	6010B	199074
240-55783-17	GW-12607-092315-EM-017	Total Recoverable	Water	6010B	199074
240-55783-20	GW-12607-092315-EM-020	Total Recoverable	Water	6010B	199074
240-55783-21	GW-12607-092315-EM-021	Total Recoverable	Water	6010B	199074
240-55783-22	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-22	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-22 MS	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-22 MS	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-22 MSD	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-22 MSD	GW-12607-092315-EM-022	Total Recoverable	Water	6010B	199077
240-55783-23	GW-12607-092315-EM-023	Total Recoverable	Water	6010B	199074
LCS 240-199074/2-A	Lab Control Sample	Total Recoverable	Water	6010B	199074
LCS 240-199077/2-A	Lab Control Sample	Total Recoverable	Water	6010B	199077
MB 240-199074/1-A	Method Blank	Total Recoverable	Water	6010B	199074
MB 240-199077/1-A	Method Blank	Total Recoverable	Water	6010B	199077

Analysis Batch: 199675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-13	GW-12607-092315-EM-013	Total Recoverable	Water	6010B	199074
240-55783-14	GW-12607-092315-EM-014	Total Recoverable	Water	6010B	199074
240-55783-19	GW-12607-092315-EM-019	Total Recoverable	Water	6010B	199074

General Chemistry

Analysis Batch: 198961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-22	GW-12607-092315-EM-022	Total/NA	Water	7196A	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

General Chemistry (Continued)

Analysis Batch: 198961 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-22 MS	GW-12607-092315-EM-022	Total/NA	Water	7196A	
240-55783-22 MSD	GW-12607-092315-EM-022	Total/NA	Water	7196A	
240-55783-23	GW-12607-092315-EM-023	Total/NA	Water	7196A	
240-55783-23 MS	GW-12607-092315-EM-023	Total/NA	Water	7196A	
240-55783-23 MSD	GW-12607-092315-EM-023	Total/NA	Water	7196A	
LCS 240-198961/4	Lab Control Sample	Total/NA	Water	7196A	
MB 240-198961/3	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 199617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55783-22	GW-12607-092315-EM-022	Total/NA	Water	7196A	
240-55783-23	GW-12607-092315-EM-023	Total/NA	Water	7196A	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: MB 240-199492/6

Matrix: Water

Analysis Batch: 199492

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.981	J	10	0.94	ug/L	-		09/29/15 11:12	1
Benzene	1.0	U	1.0	0.35	ug/L			09/29/15 11:12	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			09/29/15 11:12	1
Bromoform	1.0	U	1.0	0.56	ug/L			09/29/15 11:12	1
Bromomethane	1.0	U	1.0	0.44	ug/L			09/29/15 11:12	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			09/29/15 11:12	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			09/29/15 11:12	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			09/29/15 11:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 11:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/29/15 11:12	1
Chloroform	1.0	U	1.0	0.25	ug/L			09/29/15 11:12	1
Chloromethane	1.0	U	1.0	0.44	ug/L			09/29/15 11:12	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/29/15 11:12	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			09/29/15 11:12	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			09/29/15 11:12	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			09/29/15 11:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			09/29/15 11:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			09/29/15 11:12	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			09/29/15 11:12	1
2-Hexanone	10	U	10	0.48	ug/L			09/29/15 11:12	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			09/29/15 11:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			09/29/15 11:12	1
Styrene	1.0	U	1.0	0.45	ug/L			09/29/15 11:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			09/29/15 11:12	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			09/29/15 11:12	1
Toluene	1.0	U	1.0	0.23	ug/L			09/29/15 11:12	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			09/29/15 11:12	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			09/29/15 11:12	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			09/29/15 11:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			09/29/15 11:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/29/15 11:12	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			09/29/15 11:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			09/29/15 11:12	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			09/29/15 11:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			09/29/15 11:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			09/29/15 11:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/29/15 11:12	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			09/29/15 11:12	1
Methyl acetate	10	U	10	2.3	ug/L			09/29/15 11:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			09/29/15 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			09/29/15 11:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			09/29/15 11:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			09/29/15 11:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			09/29/15 11:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			09/29/15 11:12	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			09/29/15 11:12	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			09/29/15 11:12	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			09/29/15 11:12	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 125		09/29/15 11:12	1
4-Bromofluorobenzene (Surr)	97		61 - 120		09/29/15 11:12	1
Toluene-d8 (Surr)	90		80 - 120		09/29/15 11:12	1
Dibromofluoromethane (Surr)	102		79 - 120		09/29/15 11:12	1

Lab Sample ID: LCS 240-199492/4

Matrix: Water

Analysis Batch: 199492

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	19.9		ug/L		100	34 - 148
Benzene	10.0	9.75		ug/L		97	80 - 120
Bromodichloromethane	10.0	9.42		ug/L		94	80 - 120
Bromoform	10.0	7.50		ug/L		75	56 - 122
Bromomethane	10.0	8.36		ug/L		84	38 - 132
2-Butanone (MEK)	20.0	20.7		ug/L		104	56 - 138
Carbon disulfide	10.0	8.77		ug/L		88	65 - 144
Carbon tetrachloride	10.0	11.4		ug/L		114	77 - 131
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	8.28		ug/L		83	36 - 126
Chloroform	10.0	9.53		ug/L		95	80 - 120
Chloromethane	10.0	10.0		ug/L		100	48 - 133
1,1-Dichloroethane	10.0	10.2		ug/L		102	79 - 125
1,2-Dichloroethane	10.0	9.60		ug/L		96	80 - 120
1,1-Dichloroethene	10.0	8.30		ug/L		83	76 - 124
1,2-Dichloropropane	10.0	10.2		ug/L		102	78 - 124
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	74 - 126
trans-1,3-Dichloropropene	10.0	8.77		ug/L		88	75 - 131
Ethylbenzene	10.0	9.85		ug/L		98	80 - 120
2-Hexanone	20.0	17.1		ug/L		86	55 - 141
Methylene Chloride	10.0	11.0		ug/L		110	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	19.7		ug/L		99	64 - 135
Styrene	10.0	9.73		ug/L		97	76 - 122
1,1,2,2-Tetrachloroethane	10.0	11.4		ug/L		114	71 - 123
Tetrachloroethene	10.0	9.89		ug/L		99	78 - 121
Toluene	10.0	8.90		ug/L		89	80 - 120
Trichloroethene	10.0	10.2		ug/L		102	80 - 121
Vinyl chloride	10.0	8.84		ug/L		88	52 - 121
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120
1,1,1-Trichloroethane	10.0	9.98		ug/L		100	77 - 123
1,1,2-Trichloroethane	10.0	9.39		ug/L		94	80 - 120
Cyclohexane	10.0	9.23		ug/L		92	60 - 140
1,2-Dibromo-3-Chloropropane	10.0	8.58		ug/L		86	50 - 132
1,2-Dibromoethane	10.0	9.73		ug/L		97	80 - 120
Dichlorodifluoromethane	10.0	11.4		ug/L		114	23 - 136
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	79 - 120
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 124
Isopropylbenzene	10.0	10.3		ug/L		103	77 - 120
Methyl acetate	50.0	53.2		ug/L		106	67 - 131
Methyl tert-butyl ether	10.0	10.2		ug/L		102	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.47		ug/L		85	67 - 138
1,2,4-Trichlorobenzene	10.0	9.28		ug/L		93	61 - 120
1,2-Dichlorobenzene	10.0	9.22		ug/L		92	79 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: LCS 240-199492/4

Matrix: Water

Analysis Batch: 199492

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	9.95		ug/L		99	79 - 120
1,4-Dichlorobenzene	10.0	9.86		ug/L		99	79 - 120
Trichlorofluoromethane	10.0	8.87		ug/L		89	61 - 133
Dibromochloromethane	10.0	8.63		ug/L		86	74 - 120
Methylcyclohexane	10.0	9.67		ug/L		97	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		78 - 125
4-Bromofluorobenzene (Surr)	104		61 - 120
Toluene-d8 (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	108		79 - 120

Lab Sample ID: MB 240-199757/6

Matrix: Water

Analysis Batch: 199757

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.51	J	10	0.94	ug/L			09/30/15 14:11	1
Benzene	1.0	U	1.0	0.35	ug/L			09/30/15 14:11	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			09/30/15 14:11	1
Bromoform	1.0	U	1.0	0.56	ug/L			09/30/15 14:11	1
Bromomethane	1.0	U	1.0	0.44	ug/L			09/30/15 14:11	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			09/30/15 14:11	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			09/30/15 14:11	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			09/30/15 14:11	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			09/30/15 14:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			09/30/15 14:11	1
Chloroform	1.0	U	1.0	0.25	ug/L			09/30/15 14:11	1
Chloromethane	1.0	U	1.0	0.44	ug/L			09/30/15 14:11	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			09/30/15 14:11	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			09/30/15 14:11	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			09/30/15 14:11	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			09/30/15 14:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			09/30/15 14:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			09/30/15 14:11	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			09/30/15 14:11	1
2-Hexanone	10	U	10	0.48	ug/L			09/30/15 14:11	1
Methylene Chloride	0.670	J	5.0	0.33	ug/L			09/30/15 14:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			09/30/15 14:11	1
Styrene	1.0	U	1.0	0.45	ug/L			09/30/15 14:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			09/30/15 14:11	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			09/30/15 14:11	1
Toluene	1.0	U	1.0	0.23	ug/L			09/30/15 14:11	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			09/30/15 14:11	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			09/30/15 14:11	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			09/30/15 14:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			09/30/15 14:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			09/30/15 14:11	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: MB 240-199757/6

Matrix: Water

Analysis Batch: 199757

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.0	U	1.0	0.45	ug/L			09/30/15 14:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			09/30/15 14:11	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			09/30/15 14:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			09/30/15 14:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			09/30/15 14:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			09/30/15 14:11	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			09/30/15 14:11	1
Methyl acetate	10	U	10	2.3	ug/L			09/30/15 14:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			09/30/15 14:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			09/30/15 14:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			09/30/15 14:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			09/30/15 14:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			09/30/15 14:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			09/30/15 14:11	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			09/30/15 14:11	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			09/30/15 14:11	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			09/30/15 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		78 - 125		09/30/15 14:11	1
4-Bromofluorobenzene (Surr)	73		61 - 120		09/30/15 14:11	1
Toluene-d8 (Surr)	83		80 - 120		09/30/15 14:11	1
Dibromofluoromethane (Surr)	106		79 - 120		09/30/15 14:11	1

Lab Sample ID: LCS 240-199757/4

Matrix: Water

Analysis Batch: 199757

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	18.3		ug/L		91	34 - 148
Benzene	10.0	9.16		ug/L		92	80 - 120
Bromodichloromethane	10.0	9.47		ug/L		95	80 - 120
Bromoform	10.0	10.5		ug/L		105	56 - 122
Bromomethane	10.0	10.8		ug/L		108	38 - 132
2-Butanone (MEK)	20.0	16.3		ug/L		81	56 - 138
Carbon disulfide	10.0	7.53		ug/L		75	65 - 144
Carbon tetrachloride	10.0	9.42		ug/L		94	77 - 131
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	9.31		ug/L		93	36 - 126
Chloroform	10.0	9.39		ug/L		94	80 - 120
Chloromethane	10.0	9.78		ug/L		98	48 - 133
1,1-Dichloroethane	10.0	8.56		ug/L		86	79 - 125
1,2-Dichloroethane	10.0	9.65		ug/L		97	80 - 120
1,1-Dichloroethene	10.0	8.04		ug/L		80	76 - 124
1,2-Dichloropropane	10.0	9.34		ug/L		93	78 - 124
cis-1,3-Dichloropropene	10.0	8.71		ug/L		87	74 - 126
trans-1,3-Dichloropropene	10.0	9.55		ug/L		95	75 - 131
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: LCS 240-199757/4

Matrix: Water

Analysis Batch: 199757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	20.0	16.6		ug/L		83	55 - 141
Methylene Chloride	10.0	10.5		ug/L		105	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	15.4		ug/L		77	64 - 135
Styrene	10.0	10.8		ug/L		108	76 - 122
1,1,2,2-Tetrachloroethane	10.0	8.67		ug/L		87	71 - 123
Tetrachloroethene	10.0	10.7		ug/L		107	78 - 121
Toluene	10.0	10.1		ug/L		101	80 - 120
Trichloroethene	10.0	9.51		ug/L		95	80 - 121
Vinyl chloride	10.0	9.19		ug/L		92	52 - 121
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120
1,1,1-Trichloroethane	10.0	8.48		ug/L		85	77 - 123
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 120
Cyclohexane	10.0	7.73		ug/L		77	60 - 140
1,2-Dibromo-3-Chloropropane	10.0	8.63		ug/L		86	50 - 132
1,2-Dibromoethane	10.0	10.2		ug/L		102	80 - 120
Dichlorodifluoromethane	10.0	12.6		ug/L		126	23 - 136
cis-1,2-Dichloroethene	10.0	9.13		ug/L		91	79 - 120
trans-1,2-Dichloroethene	10.0	8.84		ug/L		88	80 - 124
Isopropylbenzene	10.0	10.4		ug/L		104	77 - 120
Methyl acetate	50.0	43.4		ug/L		87	67 - 131
Methyl tert-butyl ether	10.0	7.41		ug/L		74	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.55		ug/L		96	67 - 138
1,2,4-Trichlorobenzene	10.0	8.10		ug/L		81	61 - 120
1,2-Dichlorobenzene	10.0	9.96		ug/L		100	79 - 120
1,3-Dichlorobenzene	10.0	9.81		ug/L		98	79 - 120
1,4-Dichlorobenzene	10.0	9.74		ug/L		97	79 - 120
Trichlorofluoromethane	10.0	11.0		ug/L		110	61 - 133
Dibromochloromethane	10.0	10.7		ug/L		107	74 - 120
Methylcyclohexane	10.0	7.59		ug/L		76	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		78 - 125
4-Bromofluorobenzene (Surr)	101		61 - 120
Toluene-d8 (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	92		79 - 120

Lab Sample ID: MB 240-200149/6

Matrix: Water

Analysis Batch: 200149

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.29	J	10	0.94	ug/L			10/02/15 16:53	1
Benzene	1.0	U	1.0	0.35	ug/L			10/02/15 16:53	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/02/15 16:53	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/02/15 16:53	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/02/15 16:53	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/02/15 16:53	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: MB 240-200149/6

Matrix: Water

Analysis Batch: 200149

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/02/15 16:53	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/02/15 16:53	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 16:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/02/15 16:53	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/02/15 16:53	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/02/15 16:53	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/02/15 16:53	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/02/15 16:53	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/02/15 16:53	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/02/15 16:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/02/15 16:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/02/15 16:53	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/02/15 16:53	1
2-Hexanone	10	U	10	0.48	ug/L			10/02/15 16:53	1
Methylene Chloride	0.582	J	5.0	0.33	ug/L			10/02/15 16:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/02/15 16:53	1
Styrene	1.0	U	1.0	0.45	ug/L			10/02/15 16:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/02/15 16:53	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/02/15 16:53	1
Toluene	1.0	U	1.0	0.23	ug/L			10/02/15 16:53	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/02/15 16:53	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/02/15 16:53	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/02/15 16:53	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/02/15 16:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/02/15 16:53	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/02/15 16:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/02/15 16:53	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/02/15 16:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/02/15 16:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/02/15 16:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/02/15 16:53	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/02/15 16:53	1
Methyl acetate	10	U	10	2.3	ug/L			10/02/15 16:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/02/15 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/02/15 16:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/02/15 16:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/02/15 16:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/02/15 16:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/02/15 16:53	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/02/15 16:53	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/02/15 16:53	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/02/15 16:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 125		10/02/15 16:53	1
4-Bromofluorobenzene (Surr)	76		61 - 120		10/02/15 16:53	1
Toluene-d8 (Surr)	83		80 - 120		10/02/15 16:53	1
Dibromofluoromethane (Surr)	104		79 - 120		10/02/15 16:53	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Lab Sample ID: LCS 240-200149/4

Matrix: Water

Analysis Batch: 200149

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	17.4		ug/L		87	34 - 148
Benzene	10.0	9.37		ug/L		94	80 - 120
Bromodichloromethane	10.0	9.18		ug/L		92	80 - 120
Bromoform	10.0	8.40		ug/L		84	56 - 122
Bromomethane	10.0	9.84		ug/L		98	38 - 132
2-Butanone (MEK)	20.0	16.0		ug/L		80	56 - 138
Carbon disulfide	10.0	8.25		ug/L		82	65 - 144
Carbon tetrachloride	10.0	9.53		ug/L		95	77 - 131
Chlorobenzene	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	8.37		ug/L		84	36 - 126
Chloroform	10.0	9.69		ug/L		97	80 - 120
Chloromethane	10.0	9.67		ug/L		97	48 - 133
1,1-Dichloroethane	10.0	9.05		ug/L		91	79 - 125
1,2-Dichloroethane	10.0	9.98		ug/L		100	80 - 120
1,1-Dichloroethene	10.0	8.58		ug/L		86	76 - 124
1,2-Dichloropropane	10.0	9.44		ug/L		94	78 - 124
cis-1,3-Dichloropropene	10.0	8.68		ug/L		87	74 - 126
trans-1,3-Dichloropropene	10.0	9.22		ug/L		92	75 - 131
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
2-Hexanone	20.0	15.1		ug/L		76	55 - 141
Methylene Chloride	10.0	10.8		ug/L		108	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	14.7		ug/L		74	64 - 135
Styrene	10.0	10.3		ug/L		103	76 - 122
1,1,2,2-Tetrachloroethane	10.0	8.17		ug/L		82	71 - 123
Tetrachloroethene	10.0	10.5		ug/L		105	78 - 121
Toluene	10.0	10.0		ug/L		100	80 - 120
Trichloroethene	10.0	9.99		ug/L		100	80 - 121
Vinyl chloride	10.0	9.29		ug/L		93	52 - 121
Xylenes, Total	20.0	21.0		ug/L		105	80 - 120
1,1,1-Trichloroethane	10.0	8.89		ug/L		89	77 - 123
1,1,2-Trichloroethane	10.0	9.67		ug/L		97	80 - 120
Cyclohexane	10.0	8.79		ug/L		88	60 - 140
1,2-Dibromo-3-Chloropropane	10.0	7.22		ug/L		72	50 - 132
1,2-Dibromoethane	10.0	9.66		ug/L		97	80 - 120
Dichlorodifluoromethane	10.0	11.0		ug/L		110	23 - 136
cis-1,2-Dichloroethene	10.0	9.55		ug/L		96	79 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 124
Isopropylbenzene	10.0	10.3		ug/L		103	77 - 120
Methyl acetate	50.0	42.7		ug/L		85	67 - 131
Methyl tert-butyl ether	10.0	8.45		ug/L		84	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.9		ug/L		109	67 - 138
1,2,4-Trichlorobenzene	10.0	8.30		ug/L		83	61 - 120
1,2-Dichlorobenzene	10.0	10.0		ug/L		100	79 - 120
1,3-Dichlorobenzene	10.0	9.87		ug/L		99	79 - 120
1,4-Dichlorobenzene	10.0	9.90		ug/L		99	79 - 120
Trichlorofluoromethane	10.0	11.1		ug/L		111	61 - 133
Dibromochloromethane	10.0	9.53		ug/L		95	74 - 120
Methylcyclohexane	10.0	8.35		ug/L		84	61 - 134

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: LCS 240-200149/4

Matrix: Water

Analysis Batch: 200149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		78 - 125
4-Bromofluorobenzene (Surr)	95		61 - 120
Toluene-d8 (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	90		79 - 120

Lab Sample ID: MB 240-200347/6

Matrix: Water

Analysis Batch: 200347

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.50	J	10	0.94	ug/L			10/05/15 14:03	1
Benzene	1.0	U	1.0	0.35	ug/L			10/05/15 14:03	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/05/15 14:03	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/05/15 14:03	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/05/15 14:03	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/05/15 14:03	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/05/15 14:03	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/05/15 14:03	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:03	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/05/15 14:03	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/05/15 14:03	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/05/15 14:03	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/05/15 14:03	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/05/15 14:03	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/05/15 14:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/05/15 14:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/05/15 14:03	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:03	1
2-Hexanone	10	U	10	0.48	ug/L			10/05/15 14:03	1
Methylene Chloride	0.898	J	5.0	0.33	ug/L			10/05/15 14:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/05/15 14:03	1
Styrene	1.0	U	1.0	0.45	ug/L			10/05/15 14:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/05/15 14:03	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/05/15 14:03	1
Toluene	1.0	U	1.0	0.23	ug/L			10/05/15 14:03	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/05/15 14:03	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/05/15 14:03	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/05/15 14:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/05/15 14:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/05/15 14:03	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/05/15 14:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/05/15 14:03	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/05/15 14:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/05/15 14:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/05/15 14:03	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/05/15 14:03	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: MB 240-200347/6

Matrix: Water

Analysis Batch: 200347

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	10	U	10	2.3	ug/L			10/05/15 14:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/05/15 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/05/15 14:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/05/15 14:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/05/15 14:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/05/15 14:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/05/15 14:03	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/05/15 14:03	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/05/15 14:03	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/05/15 14:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		78 - 125		10/05/15 14:03	1
4-Bromofluorobenzene (Surr)	78		61 - 120		10/05/15 14:03	1
Toluene-d8 (Surr)	83		80 - 120		10/05/15 14:03	1
Dibromofluoromethane (Surr)	107		79 - 120		10/05/15 14:03	1

Lab Sample ID: LCS 240-200347/4

Matrix: Water

Analysis Batch: 200347

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	17.8		ug/L		89	34 - 148
Benzene	10.0	8.92		ug/L		89	80 - 120
Bromodichloromethane	10.0	8.88		ug/L		89	80 - 120
Bromoform	10.0	8.70		ug/L		87	56 - 122
Bromomethane	10.0	9.96		ug/L		100	38 - 132
2-Butanone (MEK)	20.0	16.0		ug/L		80	56 - 138
Carbon disulfide	10.0	6.50		ug/L		65	65 - 144
Carbon tetrachloride	10.0	9.48		ug/L		95	77 - 131
Chlorobenzene	10.0	9.60		ug/L		96	80 - 120
Chloroethane	10.0	8.77		ug/L		88	36 - 126
Chloroform	10.0	9.49		ug/L		95	80 - 120
Chloromethane	10.0	9.74		ug/L		97	48 - 133
1,1-Dichloroethane	10.0	8.50		ug/L		85	79 - 125
1,2-Dichloroethane	10.0	9.74		ug/L		97	80 - 120
1,1-Dichloroethene	10.0	9.51		ug/L		95	76 - 124
1,2-Dichloropropane	10.0	9.04		ug/L		90	78 - 124
cis-1,3-Dichloropropene	10.0	8.68		ug/L		87	74 - 126
trans-1,3-Dichloropropene	10.0	9.03		ug/L		90	75 - 131
Ethylbenzene	10.0	9.35		ug/L		93	80 - 120
2-Hexanone	20.0	15.5		ug/L		77	55 - 141
Methylene Chloride	10.0	10.2		ug/L		102	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	14.8		ug/L		74	64 - 135
Styrene	10.0	9.98		ug/L		100	76 - 122
1,1,2,2-Tetrachloroethane	10.0	7.78		ug/L		78	71 - 123
Tetrachloroethene	10.0	9.87		ug/L		99	78 - 121
Toluene	10.0	9.18		ug/L		92	80 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: LCS 240-200347/4

Matrix: Water

Analysis Batch: 200347

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	10.0	9.68		ug/L		97	80 - 121
Vinyl chloride	10.0	9.50		ug/L		95	52 - 121
Xylenes, Total	20.0	19.8		ug/L		99	80 - 120
1,1,1-Trichloroethane	10.0	8.73		ug/L		87	77 - 123
1,1,2-Trichloroethane	10.0	9.09		ug/L		91	80 - 120
Cyclohexane	10.0	8.06		ug/L		81	60 - 140
1,2-Dibromo-3-Chloropropane	10.0	7.33		ug/L		73	50 - 132
1,2-Dibromoethane	10.0	9.31		ug/L		93	80 - 120
Dichlorodifluoromethane	10.0	12.0		ug/L		120	23 - 136
cis-1,2-Dichloroethene	10.0	9.18		ug/L		92	79 - 120
trans-1,2-Dichloroethene	10.0	9.41		ug/L		94	80 - 124
Isopropylbenzene	10.0	9.81		ug/L		98	77 - 120
Methyl acetate	50.0	41.3		ug/L		83	67 - 131
Methyl tert-butyl ether	10.0	8.45		ug/L		84	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.5		ug/L		125	67 - 138
1,2,4-Trichlorobenzene	10.0	8.13		ug/L		81	61 - 120
1,2-Dichlorobenzene	10.0	9.48		ug/L		95	79 - 120
1,3-Dichlorobenzene	10.0	9.32		ug/L		93	79 - 120
1,4-Dichlorobenzene	10.0	9.38		ug/L		94	79 - 120
Trichlorofluoromethane	10.0	12.4		ug/L		124	61 - 133
Dibromochloromethane	10.0	9.36		ug/L		94	74 - 120
Methylcyclohexane	10.0	8.24		ug/L		82	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		78 - 125
4-Bromofluorobenzene (Surr)	94		61 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	94		79 - 120

Lab Sample ID: 240-55783-18 MS

Matrix: Water

Analysis Batch: 200347

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	17	U	33.4	30.2		ug/L		90	32 - 126
Benzene	1.7	U F1	16.7	12.6		ug/L		76	73 - 121
Bromodichloromethane	1.7	U	16.7	14.2		ug/L		85	72 - 120
Bromoform	1.7	U	16.7	14.3		ug/L		85	45 - 121
Bromomethane	1.7	U	16.7	15.7		ug/L		94	26 - 136
2-Butanone (MEK)	17	U	33.4	25.8		ug/L		77	49 - 132
Carbon disulfide	8.4	U F1	16.7	8.01	J F1	ug/L		48	54 - 144
Carbon tetrachloride	1.7	U F1	16.7	9.42	F1	ug/L		56	65 - 129
Chlorobenzene	1.7	U F1	16.7	11.1	F1	ug/L		67	72 - 120
Chloroethane	1.7	U	16.7	12.2		ug/L		73	27 - 131
Chloroform	1.7	U	16.7	14.9		ug/L		89	73 - 121
Chloromethane	1.7	U	16.7	14.4		ug/L		86	39 - 134
1,1-Dichloroethane	1.7	U	16.7	13.8		ug/L		83	73 - 124

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: 240-55783-18 MS

Matrix: Water

Analysis Batch: 200347

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	1.7	U	16.7	17.1		ug/L		102	74 - 125
1,1-Dichloroethene	1.7	U F1	16.7	9.66	F1	ug/L		58	67 - 124
1,2-Dichloropropane	1.7	U	16.7	13.7		ug/L		82	73 - 122
cis-1,3-Dichloropropene	1.7	U	16.7	10.4		ug/L		63	60 - 120
trans-1,3-Dichloropropene	1.7	U	16.7	12.2		ug/L		73	58 - 132
Ethylbenzene	1.7	U F1	16.7	9.01	F1	ug/L		54	68 - 121
2-Hexanone	17	U	33.4	25.9		ug/L		77	49 - 142
Methylene Chloride	8.4	U	16.7	18.2		ug/L		109	70 - 124
4-Methyl-2-pentanone (MIBK)	17	U	33.4	23.9		ug/L		71	58 - 136
Styrene	1.7	U F1	16.7	10.8		ug/L		64	64 - 126
1,1,2,2-Tetrachloroethane	1.7	U	16.7	12.9		ug/L		77	61 - 130
Tetrachloroethene	1.7	U F1	16.7	8.13	F1	ug/L		49	59 - 125
Toluene	1.7	U F1	16.7	10.7	F1	ug/L		64	72 - 122
Trichloroethene	44	F1	16.7	34.6	F1	ug/L		-54	61 - 129
Vinyl chloride	1.7	U	16.7	12.0		ug/L		72	44 - 122
Xylenes, Total	3.3	U F1	33.4	19.1	F1	ug/L		57	67 - 122
1,1,1-Trichloroethane	13	F1	16.7	18.4	F1	ug/L		32	69 - 122
1,1,2-Trichloroethane	1.7	U	16.7	15.7		ug/L		94	72 - 125
Cyclohexane	1.7	U F1	16.7	4.99	F1	ug/L		30	41 - 137
1,2-Dibromo-3-Chloropropane	1.7	U	16.7	11.9		ug/L		71	42 - 130
1,2-Dibromoethane	1.7	U	16.7	14.7		ug/L		88	69 - 125
Dichlorodifluoromethane	1.7	U	16.7	11.0		ug/L		66	14 - 137
cis-1,2-Dichloroethene	1.7	U	16.7	13.9		ug/L		83	66 - 124
trans-1,2-Dichloroethene	1.7	U F1	16.7	12.2		ug/L		73	72 - 125
Isopropylbenzene	1.7	U F1	16.7	7.38	F1	ug/L		44	61 - 122
Methyl acetate	17	U	83.5	68.2		ug/L		82	64 - 124
Methyl tert-butyl ether	1.7	U	16.7	14.2		ug/L		85	61 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U F1	16.7	8.42		ug/L		50	44 - 140
1,2,4-Trichlorobenzene	1.7	U F1	16.7	8.27		ug/L		50	48 - 120
1,2-Dichlorobenzene	1.7	U F1	16.7	11.3		ug/L		68	67 - 118
1,3-Dichlorobenzene	1.7	U F1	16.7	9.71	F1	ug/L		58	65 - 120
1,4-Dichlorobenzene	1.7	U F1	16.7	10.3	F1	ug/L		62	66 - 120
Trichlorofluoromethane	1.7	U	16.7	11.9		ug/L		72	49 - 133
Dibromochloromethane	1.7	U	16.7	14.3		ug/L		86	62 - 122
Methylcyclohexane	1.7	U F1	16.7	4.05	F1	ug/L		24	39 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		78 - 125
4-Bromofluorobenzene (Surr)	92		61 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	98		79 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: 240-55783-18 MSD

Matrix: Water

Analysis Batch: 200347

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	17	U	33.4	29.3		ug/L		88	32 - 126	3	28
Benzene	1.7	U F1	16.7	11.4	F1	ug/L		68	73 - 121	11	13
Bromodichloromethane	1.7	U	16.7	12.7		ug/L		76	72 - 120	11	19
Bromoform	1.7	U	16.7	12.7		ug/L		76	45 - 121	12	19
Bromomethane	1.7	U	16.7	15.4		ug/L		92	26 - 136	2	35
2-Butanone (MEK)	17	U	33.4	25.1		ug/L		75	49 - 132	3	19
Carbon disulfide	8.4	U F1	16.7	6.88	J F1	ug/L		41	54 - 144	15	34
Carbon tetrachloride	1.7	U F1	16.7	8.04	F1	ug/L		48	65 - 129	16	20
Chlorobenzene	1.7	U F1	16.7	10.1	F1	ug/L		61	72 - 120	10	15
Chloroethane	1.7	U	16.7	11.9		ug/L		71	27 - 131	3	35
Chloroform	1.7	U	16.7	13.5		ug/L		81	73 - 121	10	17
Chloromethane	1.7	U	16.7	14.0		ug/L		84	39 - 134	2	20
1,1-Dichloroethane	1.7	U	16.7	12.8		ug/L		77	73 - 124	8	14
1,2-Dichloroethane	1.7	U	16.7	15.6		ug/L		93	74 - 125	9	24
1,1-Dichloroethene	1.7	U F1	16.7	8.75	F1	ug/L		52	67 - 124	10	24
1,2-Dichloropropane	1.7	U	16.7	12.2		ug/L		73	73 - 122	11	15
cis-1,3-Dichloropropene	1.7	U	16.7	9.98		ug/L		60	60 - 120	5	21
trans-1,3-Dichloropropene	1.7	U	16.7	11.5		ug/L		69	58 - 132	6	22
Ethylbenzene	1.7	U F1	16.7	7.77	F1	ug/L		47	68 - 121	15	16
2-Hexanone	17	U	33.4	23.3		ug/L		70	49 - 142	10	27
Methylene Chloride	8.4	U	16.7	17.4		ug/L		104	70 - 124	4	14
4-Methyl-2-pentanone (MIBK)	17	U	33.4	23.1		ug/L		69	58 - 136	3	32
Styrene	1.7	U F1	16.7	9.38	F1	ug/L		56	64 - 126	14	15
1,1,2,2-Tetrachloroethane	1.7	U	16.7	12.4		ug/L		74	61 - 130	4	18
Tetrachloroethene	1.7	U F1	16.7	7.20	F1	ug/L		43	59 - 125	12	20
Toluene	1.7	U F1	16.7	9.71	F1	ug/L		58	72 - 122	10	15
Trichloroethene	44	F1	16.7	32.7	F1	ug/L		-66	61 - 129	6	14
Vinyl chloride	1.7	U	16.7	11.2		ug/L		67	44 - 122	7	35
Xylenes, Total	3.3	U F1	33.4	17.2	F1	ug/L		51	67 - 122	11	14
1,1,1-Trichloroethane	13	F1	16.7	17.0	F1	ug/L		23	69 - 122	8	14
1,1,2-Trichloroethane	1.7	U	16.7	14.1		ug/L		84	72 - 125	11	19
Cyclohexane	1.7	U F1	16.7	4.78	F1	ug/L		29	41 - 137	4	35
1,2-Dibromo-3-Chloropropane	1.7	U	16.7	11.7		ug/L		70	42 - 130	1	24
1,2-Dibromoethane	1.7	U	16.7	13.8		ug/L		83	69 - 125	6	24
Dichlorodifluoromethane	1.7	U	16.7	9.65		ug/L		58	14 - 137	13	34
cis-1,2-Dichloroethene	1.7	U	16.7	13.1		ug/L		79	66 - 124	6	22
trans-1,2-Dichloroethene	1.7	U F1	16.7	11.5	F1	ug/L		69	72 - 125	6	25
Isopropylbenzene	1.7	U F1	16.7	6.65	F1	ug/L		40	61 - 122	10	20
Methyl acetate	17	U	83.5	64.4		ug/L		77	64 - 124	6	12
Methyl tert-butyl ether	1.7	U	16.7	13.7		ug/L		82	61 - 121	4	12
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	U F1	16.7	6.93	F1	ug/L		42	44 - 140	19	35
1,2,4-Trichlorobenzene	1.7	U F1	16.7	7.66	F1	ug/L		46	48 - 120	8	28
1,2-Dichlorobenzene	1.7	U F1	16.7	9.90	F1	ug/L		59	67 - 118	14	15
1,3-Dichlorobenzene	1.7	U F1	16.7	8.92	F1	ug/L		53	65 - 120	8	15
1,4-Dichlorobenzene	1.7	U F1	16.7	9.32	F1	ug/L		56	66 - 120	10	16
Trichlorofluoromethane	1.7	U	16.7	10.4		ug/L		63	49 - 133	13	25
Dibromochloromethane	1.7	U	16.7	13.4		ug/L		80	62 - 122	7	19

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: 240-55783-18 MSD

Matrix: Water

Analysis Batch: 200347

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane	1.7	U F1	16.7	4.08	F1	ug/L		24	39 - 135	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		78 - 125								
4-Bromofluorobenzene (Surr)	94		61 - 120								
Toluene-d8 (Surr)	91		80 - 120								
Dibromofluoromethane (Surr)	95		79 - 120								

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

Lab Sample ID: MB 240-199909/5

Matrix: Water

Analysis Batch: 199909

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.44	ug/L			10/01/15 11:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	87		74 - 120						
							Prepared	Analyzed	Dil Fac
								10/01/15 11:10	1

Lab Sample ID: LCS 240-199909/4

Matrix: Water

Analysis Batch: 199909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.69		ug/L		97	59 - 124		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		74 - 120								

Lab Sample ID: 240-55783-18 MS

Matrix: Water

Analysis Batch: 199909

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Analyte											
1,4-Dioxane	2.0	U	10.0	9.67		ug/L	-	97	50 - 150		
	MS %Recovery	MS Qualifier	Limits								
Surrogate											
1,2-Dichloroethane-d4 (Surr)	92		74 - 120								

Lab Sample ID: 240-55783-18 MSD

Matrix: Water

Analysis Batch: 199909

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	8.90		ug/L		89	50 - 150	8	30

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Lab Sample ID: 240-55783-18 MSD

Matrix: Water

Analysis Batch: 199909

Client Sample ID: GW-12607-092315-EM-018

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		74 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-199074/1-A

Matrix: Water

Analysis Batch: 199445

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 199074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.0	U	5.0	0.55	ug/L		09/25/15 10:13	09/28/15 15:57	1
Nickel	40	U	40	0.76	ug/L		09/25/15 10:13	09/28/15 15:57	1

Lab Sample ID: LCS 240-199074/2-A

Matrix: Water

Analysis Batch: 199445

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 199074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	200	205		ug/L		103	80 - 120
Nickel	500	525		ug/L		105	80 - 120

Lab Sample ID: MB 240-199077/1-A

Matrix: Water

Analysis Batch: 199445

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.669	J	5.0	0.55	ug/L		09/25/15 10:24	09/28/15 10:07	1
Nickel	40	U	40	0.76	ug/L		09/25/15 10:24	09/28/15 10:07	1

Lab Sample ID: LCS 240-199077/2-A

Matrix: Water

Analysis Batch: 199445

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	200	199		ug/L		100	80 - 120
Nickel	500	506		ug/L		101	80 - 120

Lab Sample ID: 240-55783-22 MS

Matrix: Water

Analysis Batch: 199445

Client Sample ID: GW-12607-092315-EM-022

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	11000		500	11700	4	ug/L		95	75 - 125

Lab Sample ID: 240-55783-22 MS

Matrix: Water

Analysis Batch: 199445

Client Sample ID: GW-12607-092315-EM-022

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	84000	B	200	83200	4	ug/L		-295	75 - 125

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Lab Sample ID: 240-55783-22 MSD

Matrix: Water

Analysis Batch: 199445

Client Sample ID: GW-12607-092315-EM-022

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	11000		500	12000	4	ug/L		155	75 - 125	3	20

Lab Sample ID: 240-55783-22 MSD

Matrix: Water

Analysis Batch: 199445

Client Sample ID: GW-12607-092315-EM-022

Prep Type: Total Recoverable

Prep Batch: 199077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	84000	B	200	84900	4	ug/L		583	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-198961/3

Matrix: Water

Analysis Batch: 198961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0050	U	0.0050	0.0021	mg/L			09/24/15 12:30	1

Lab Sample ID: LCS 240-198961/4

Matrix: Water

Analysis Batch: 198961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.229		mg/L		92	80 - 118

Lab Sample ID: 240-55783-22 MS

Matrix: Water

Analysis Batch: 198961

Client Sample ID: GW-12607-092315-EM-022

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	65		250	326		mg/L		104	41 - 136

Lab Sample ID: 240-55783-23 MS

Matrix: Water

Analysis Batch: 198961

Client Sample ID: GW-12607-092315-EM-023

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0050	U	0.250	0.219		mg/L		88	41 - 136

Lab Sample ID: 240-55783-23 MSD

Matrix: Water

Analysis Batch: 198961

Client Sample ID: GW-12607-092315-EM-023

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.0050	U	0.250	0.212		mg/L		85	41 - 136	3	20

TestAmerica Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (78-125)	BFB (61-120)	TOL (80-120)	DBFM (79-120)
240-55783-1	GW-12607-092115-EM-001	97	88	86	99
240-55783-2	GW-12607-092115-EM-002	104	93	91	113
240-55783-3	GW-12607-092115-EM-003	95	85	85	103
240-55783-4	GW-12607-092115-EM-004	105	94	91	112
240-55783-5	GW-12607-092115-EM-005	113	72	86	106
240-55783-6	GW-12607-092215-EM-006	111	74	84	104
240-55783-7	GW-12607-092215-EM-007	115	74	81	106
240-55783-8	GW-12607-092215-EM-008	115	73	81	105
240-55783-9	GW-12607-092215-EM-009	113	72	82	108
240-55783-10	GW-12607-092215-EM-010	117	75	83	111
240-55783-11	GW-12607-092215-EM-011	112	73	85	104
240-55783-12	GW-12607-092215-EM-012	111	78	83	107
240-55783-18	GW-12607-092315-EM-018	119	73	83	112
240-55783-18 MS	GW-12607-092315-EM-018	98	92	90	98
240-55783-18 MSD	GW-12607-092315-EM-018	97	94	91	95
240-55783-24	TB-12607-092315-A	108	73	83	107
LCS 240-199492/4	Lab Control Sample	98	104	96	108
LCS 240-199757/4	Lab Control Sample	92	101	96	92
LCS 240-200149/4	Lab Control Sample	90	95	92	90
LCS 240-200347/4	Lab Control Sample	93	94	91	94
MB 240-199492/6	Method Blank	96	97	90	102
MB 240-199757/6	Method Blank	110	73	83	106
MB 240-200149/6	Method Blank	108	76	83	104
MB 240-200347/6	Method Blank	110	78	83	107

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (74-120)			
240-55783-5	GW-12607-092115-EM-005	93			
240-55783-6	GW-12607-092215-EM-006	87			
240-55783-11	GW-12607-092215-EM-011	92			
240-55783-18	GW-12607-092315-EM-018	89			
240-55783-18 MS	GW-12607-092315-EM-018	92			
240-55783-18 MSD	GW-12607-092315-EM-018	88			
240-55783-25	TB-12607-092315-B	88			
LCS 240-199909/4	Lab Control Sample	92			
MB 240-199909/5	Method Blank	87			

Surrogate Legend

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

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092115-EM-001

Date Collected: 09/21/15 12:15

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	199492	09/29/15 15:37	LEE	TAL CAN

Client Sample ID: GW-12607-092115-EM-002

Date Collected: 09/21/15 13:30

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	199492	09/29/15 16:00	LEE	TAL CAN

Client Sample ID: GW-12607-092115-EM-003

Date Collected: 09/21/15 14:55

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	199492	09/29/15 16:22	LEE	TAL CAN

Client Sample ID: GW-12607-092115-EM-004

Date Collected: 09/21/15 15:50

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	199492	09/29/15 16:45	LEE	TAL CAN

Client Sample ID: GW-12607-092115-EM-005

Date Collected: 09/21/15 16:35

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	199757	09/30/15 21:12	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	199909	10/01/15 13:38	SAM	TAL CAN

Client Sample ID: GW-12607-092215-EM-006

Date Collected: 09/22/15 09:45

Date Received: 09/24/15 09:15

Lab Sample ID: 240-55783-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	200149	10/02/15 19:10	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	199909	10/01/15 14:03	SAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092215-EM-007

Lab Sample ID: 240-55783-7

Date Collected: 09/22/15 10:50

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 19:32	LRW	TAL CAN

Client Sample ID: GW-12607-092215-EM-008

Lab Sample ID: 240-55783-8

Date Collected: 09/22/15 12:20

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 19:55	LRW	TAL CAN

Client Sample ID: GW-12607-092215-EM-009

Lab Sample ID: 240-55783-9

Date Collected: 09/22/15 12:45

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 20:18	LRW	TAL CAN

Client Sample ID: GW-12607-092215-EM-010

Lab Sample ID: 240-55783-10

Date Collected: 09/22/15 14:40

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 20:40	LRW	TAL CAN

Client Sample ID: GW-12607-092215-EM-011

Lab Sample ID: 240-55783-11

Date Collected: 09/22/15 15:45

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 21:03	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	199909	10/01/15 14:28	SAM	TAL CAN

Client Sample ID: GW-12607-092215-EM-012

Lab Sample ID: 240-55783-12

Date Collected: 09/22/15 16:35

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200347	10/05/15 14:49	LRW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092315-EM-013

Lab Sample ID: 240-55783-13

Date Collected: 09/23/15 09:20

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		20	199675	09/29/15 11:32	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-014

Lab Sample ID: 240-55783-14

Date Collected: 09/23/15 09:25

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		20	199675	09/29/15 11:44	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-015

Lab Sample ID: 240-55783-15

Date Collected: 09/23/15 09:35

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 17:43	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-016

Lab Sample ID: 240-55783-16

Date Collected: 09/23/15 10:10

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 17:47	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-017

Lab Sample ID: 240-55783-17

Date Collected: 09/23/15 10:40

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 17:51	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-018

Lab Sample ID: 240-55783-18

Date Collected: 09/23/15 10:15

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1.67	200347	10/05/15 21:33	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	199909	10/01/15 14:53	SAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: GW-12607-092315-EM-019

Lab Sample ID: 240-55783-19

Date Collected: 09/23/15 11:25

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		20	199675	09/29/15 11:48	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-020

Lab Sample ID: 240-55783-20

Date Collected: 09/23/15 13:45

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 18:00	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-021

Lab Sample ID: 240-55783-21

Date Collected: 09/23/15 15:10

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 18:04	WAL	TAL CAN

Client Sample ID: GW-12607-092315-EM-022

Lab Sample ID: 240-55783-22

Date Collected: 09/23/15 13:30

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199077	09/25/15 10:24	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 11:09	WAL	TAL CAN
Total Recoverable	Prep	3005A			199077	09/25/15 10:24	WKD	TAL CAN
Total Recoverable	Analysis	6010B		5	199445	09/28/15 19:54	WAL	TAL CAN
Total/NA	Analysis	7196A		1000	198961	09/24/15 12:30	JWW	TAL CAN
Total/NA	Analysis	7196A		1	199617	09/29/15 17:14	KLC	TAL CAN

Client Sample ID: GW-12607-092315-EM-023

Lab Sample ID: 240-55783-23

Date Collected: 09/23/15 14:25

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			199074	09/25/15 10:13	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	199445	09/28/15 18:16	WAL	TAL CAN
Total/NA	Analysis	7196A		1	198961	09/24/15 12:30	JWW	TAL CAN
Total/NA	Analysis	7196A		1	199617	09/29/15 17:14	KLC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Client Sample ID: TB-12607-092315-A

Lab Sample ID: 240-55783-24

Date Collected: 09/23/15 00:00

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200149	10/02/15 17:39	LRW	TAL CAN

Client Sample ID: TB-12607-092315-B

Lab Sample ID: 240-55783-25

Date Collected: 09/23/15 00:00

Matrix: Water

Date Received: 09/24/15 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	199909	10/01/15 11:59	SAM	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55783-1

Laboratory: TestAmerica Canton

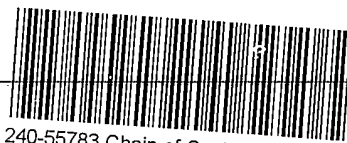
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (VW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Canton

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-55783 Chain of Custody

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

2.8/C1.3

Chain of Custody Record

109198

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Chris Meyer		Site Contact: Eric Mickelson		Date: 9-23-15		COC No: COI											
Company Name: GHD		Tel/Fax: 734-453-5123		Lab Contact: D. Heckler		Carrier: Fed-Ex		COCs											
Address: 14496 Shelton Rd, Suite 200		City/State/Zip: Plymouth, MI 48170		Analysis Turnaround Time		For Lab Use Only:		Sampler: Eric Mickelson											
Phone: 734-453-5123		Fax:		CALENDAR DAYS		Walk-in Client:		Lab Sampling:											
Project Name: RACER Livonia Estates Rd.		Site: Livonia, MI		TAT if different from Below		Job / SDG No.: 12607-0915-01		SSGD: 12607-019											
PO #		Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:	
GW-12607-092115-EH-001		1215		9-21-15		1215		G		WG		3		N		N		X	
1215		1330		1330		1330		1330		1330		3		N		N		X	
1455		1455		1455		1455		1455		1455		3		N		N		X	
1550		1550		1550		1550		1550		1550		3		N		N		X	
1635		1635		1635		1635		1635		1635		6		N		N		X	
9-22-15		0945		0945		0945		0945		0945		6		N		N		X	
1050		1050		1050		1050		1050		1050		3		N		N		X	
1220		1220		1220		1220		1220		1220		3		N		N		X	
1245		1245		1245		1245		1245		1245		3		N		N		X	
1440		1440		1440		1440		1440		1440		3		N		N		X	
1545		1545		1545		1545		1545		1545		6		N		N		X	
1635		1635		1635		1635		1635		1635		3		N		N		X	
Preservation Used: 1=Ice, 2=H2SO4, 4=HNO3, 5=NaOH, 6=Other		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 ☒		Return to Client ☐ Disposal by Lab ☒ Archive for _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		2		2		2		2	
Custody Seals Intact: ☐ Yes ☐ No		Relinquished by: Eric Mickelson		Relinquished by: 0/8		Relinquished by: 015		Custody Seal No.: GHD		Date/Time: 9-23-15/1730		Received by: GHD		Received by: GHD		Date/Time: 9-23-15/1730		Date/Time: 9-23-15/1730	
Relinquished by: 0/8		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015		Relinquished by: 015	

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Chris Meiske		Site Contact: Eric Mickelson		Date: 9-23-15		COC No: 002	
Company Name: GHD		Tel/Fax: 734-453-5123		Lab Contact: D. Hecker		Carrier: Fed-Ex		4 of 3 COCs	
Address: 1496 Sheldon Rd. Suite 200		City/State/Zip: Plymouth, MI 48170		Analysis Turnaround Time		For Lab Use Only:		Sampler: Eric Mickelson, Eric Myers	
Phone: 734-453-5123		Fax:		☐ CALENDAR DAYS ☒ WORKING DAYS		Walk-in Client:		Lab Sampling:	
Project Name: RACER Livonia E&ES Rd.		PO #		TA if different from Below		Job / SDG No.: 12607-092315-01		SSDW: 12607-019	
				2 weeks					
				1 week					
				2 days					
				1 day					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Notes	Sample Specific Notes:
GW-12607-092315-EM-013	9-23-15	0920	G	WG	1	N	N		
-014		0925			1	N	N		
-015		0935			1	N	N		
-016		1010			1	N	N		
-017		1040			1	N	N		
-018		1015			18	N	N		
-019		1125			1	N	N		
-020		1345			1	N	N		
-021		1510			1	N	N		
-022		1330			4	N	N		
-023		1425			2	N	N		
TB-12607-092315-A					1	N	N		

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

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 ☒ Unknown ☐ Poison B

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Received by: <i>Chumilly</i>	Company: <i>TA-Carbon</i>	Date/Time: <i>9/24/15 9:15</i>
Relinquished by: Eric Mickelson	Company:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Received in Laboratory by:	Company:	Date/Time:



Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: <u>Chris Melnik</u>		Site Contact: <u>Eric Mickelson</u>		COC No: <u>003</u>		
Company Name: <u>GHD</u>		Tel/Fax: <u>734-453-5123</u>		Lab Contact: <u>D. Heckler</u>		Date: <u>9-23-15</u>		
Address: <u>14496 Sheldon Rd. Suite 200</u>		Analysis Turnaround Time		Carrier: <u>Feel-Ex</u>		1 of 3 COCs		
City/State/Zip: <u>Plymouth, MI 48150</u>		☐ CALENDAR DAYS ☒ WORKING DAYS				Sampler: <u>Eric Mickelson</u>		
Phone: <u>734-453-5123</u>		TAT If different from Below				For Lab Use Only:		
Fax:		☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day				Walk-in Client:		
Project Name: <u>RACER Livonia Fickles Rd.</u>						Lab Sampling:		
Site: <u>Livonia, MI</u>						Job / SDG No.: <u>12607-092315-B</u>		
P O #						SSW: <u>12607-019</u>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:	
TB-12607-092315-B		9-23-15	-	-	WB	1		
EM								
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 ☒ Unknown		☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months						
Special Instructions/QC Requirements & Comments:		Therm ID No.:						
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C):		Obs'd:		
Relinquished by: <u>Eric Mickelson</u>		Company: <u>GHD</u>		Date/Time: <u>9-23-15/1730</u>		Received by: <u>Chris Melnik</u>		
Relinquished by: <u>0/6</u>		Company:		Date/Time:		Received by: <u>74-Centel</u>		
Relinquished by: <u>0015</u>		Company:		Date/Time:		Received by: <u>2/24/15-815</u>		

TestAmerica Canton Sample Receipt Form/Narrative				Login # : <u>65747</u>	
Canton Facility					
Client <u>GHD</u>		Site Name _____		Cooler unpacked by: <u>[Signature]</u>	
Cooler Received on <u>9/24/15</u>		Opened on <u>9/24/15</u>			
FedEx: 1 st Grd <u>Exp</u>		UPS FAS Stetson		Client Drop Off TestAmerica Courier Other _____	
Receipt After-hours: Drop-off Date/Time _____			Storage Location _____		
TestAmerica Cooler # _____		Foam Box <u>Client Cooler</u>		Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice Dry Ice		Water None	
1. Cooler temperature upon receipt					
IR GUN# A (CF +1.0 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
IR GUN# 4 (CF +0.5 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
IR GUN# 5 (CF +0.4 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF -1.5 °C)		Observed Cooler Temp. <u>2.2</u> °C		Corrected Cooler Temp. <u>1.3</u> °C	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> <u>Yes</u> No ☐ See Multiple Cooler Form					
-Were custody seals on the outside of the cooler(s) signed & dated? <u>Yes</u> No NA					
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> No					
3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No					
4. Did custody papers accompany the sample(s)? <u>Yes</u> No					
5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No					
6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No					
7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No					
8. Could all bottle labels be reconciled with the COC? <u>Yes</u> No					
9. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No					
10. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No					
11. Were sample(s) at the correct pH upon receipt? <u>Yes</u> No <u>NA</u> pH Strip Lot# <u>HC554612</u>					
12. Were VOAs on the COC? <u>Yes</u> No					
13. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> No <u>NA</u>					
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # <u>B506301UB</u> <u>Yes</u> No					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 	Samples processed by: _____
15. SAMPLE CONDITION Sample(s) _____ were received after the recommended holding time had expired. Sample(s) _____ were received in a broken container. Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)	
16. SAMPLE PRESERVATION Sample(s) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____	

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GW-12607-092315-EM-013	240-55783-A-13	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-014	240-55783-A-14	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-015	240-55783-A-15	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-016	240-55783-A-16	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-017	240-55783-A-17	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-019	240-55783-A-19	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-020	240-55783-A-20	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-021	240-55783-A-21	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-022	240-55783-C-22	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-022	240-55783-D-22	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12607-092315-EM-023	240-55783-B-23	Plastic 500ml - with Nitric 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: 240-55868-1

Client Project/Site: 12607-019, RACER Eckles Rd

For:

GHD Services Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

10/12/2015 10:40:06 AM

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

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Sample Summary	5
Detection Summary	6
Method Summary	7
Client Sample Results	8
QC Association Summary	12
QC Sample Results	13
Surrogate Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19



Case Narrative

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Job ID: 240-55868-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 12607-019, RACER Eckles Rd

Report Number: 240-55868-1

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 09/26/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.7 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12607-092515-EM-024 (240-55868-1) and TB-12607-092515-EM (240-55868-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/06/2015.

There is no MS/MSD for batch 200531 due to analyst prep error.

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-55868-1	GW-12607-092515-EM-024	Water	09/25/15 09:40	09/26/15 09:45
240-55868-2	TB-12607-092515-EM	Water	09/25/15 00:00	09/26/15 09:45

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Detection Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Client Sample ID: GW-12607-092515-EM-024

Lab Sample ID: 240-55868-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.2		1.0	0.22	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	12		1.0	0.44	ug/L	1		8260B	Total/NA

Client Sample ID: TB-12607-092515-EM

Lab Sample ID: 240-55868-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		10	0.94	ug/L	1		8260B	Total/NA
Methylene Chloride	0.43	J	5.0	0.33	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

Client Sample ID: GW-12607-092515-EM-024

Date Collected: 09/25/15 09:40

Date Received: 09/26/15 09:45

Lab Sample ID: 240-55868-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			10/06/15 18:22	1
Benzene	1.0	U	1.0	0.35	ug/L			10/06/15 18:22	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/06/15 18:22	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/06/15 18:22	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/06/15 18:22	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/06/15 18:22	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/06/15 18:22	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/06/15 18:22	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:22	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/06/15 18:22	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/06/15 18:22	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/06/15 18:22	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/06/15 18:22	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/06/15 18:22	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/06/15 18:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/06/15 18:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/06/15 18:22	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:22	1
2-Hexanone	10	U	10	0.48	ug/L			10/06/15 18:22	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/06/15 18:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/06/15 18:22	1
Styrene	1.0	U	1.0	0.45	ug/L			10/06/15 18:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/06/15 18:22	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/06/15 18:22	1
Toluene	1.0	U	1.0	0.23	ug/L			10/06/15 18:22	1
Trichloroethene	1.2		1.0	0.22	ug/L			10/06/15 18:22	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/06/15 18:22	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/06/15 18:22	1
1,1,1-Trichloroethane	12		1.0	0.44	ug/L			10/06/15 18:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/06/15 18:22	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/06/15 18:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/06/15 18:22	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/06/15 18:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 18:22	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/06/15 18:22	1
Methyl acetate	10	U	10	2.3	ug/L			10/06/15 18:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/06/15 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/06/15 18:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/06/15 18:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/06/15 18:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/06/15 18:22	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/06/15 18:22	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/06/15 18:22	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/06/15 18:22	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

<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)	98		78 - 125		10/06/15 18:22	1
4-Bromofluorobenzene (Surr)	86		61 - 120		10/06/15 18:22	1
Toluene-d8 (Surr)	93		80 - 120		10/06/15 18:22	1
Dibromofluoromethane (Surr)	98		79 - 120		10/06/15 18:22	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

Client Sample ID: TB-12607-092515-EM

Date Collected: 09/25/15 00:00

Date Received: 09/26/15 09:45

Lab Sample ID: 240-55868-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	15		10	0.94	ug/L			10/06/15 18:44	1
Benzene	1.0	U	1.0	0.35	ug/L			10/06/15 18:44	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/06/15 18:44	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/06/15 18:44	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/06/15 18:44	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/06/15 18:44	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/06/15 18:44	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/06/15 18:44	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:44	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:44	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/06/15 18:44	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/06/15 18:44	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/06/15 18:44	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/06/15 18:44	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/06/15 18:44	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/06/15 18:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/06/15 18:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/06/15 18:44	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:44	1
2-Hexanone	10	U	10	0.48	ug/L			10/06/15 18:44	1
Methylene Chloride	0.43	J	5.0	0.33	ug/L			10/06/15 18:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/06/15 18:44	1
Styrene	1.0	U	1.0	0.45	ug/L			10/06/15 18:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/06/15 18:44	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/06/15 18:44	1
Toluene	1.0	U	1.0	0.23	ug/L			10/06/15 18:44	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/06/15 18:44	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/06/15 18:44	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/06/15 18:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/06/15 18:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/06/15 18:44	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/06/15 18:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/06/15 18:44	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/06/15 18:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/06/15 18:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 18:44	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/06/15 18:44	1
Methyl acetate	10	U	10	2.3	ug/L			10/06/15 18:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/06/15 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/06/15 18:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/06/15 18:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 18:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/06/15 18:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/06/15 18:44	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/06/15 18:44	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/06/15 18:44	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/06/15 18:44	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

<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)	98		78 - 125		10/06/15 18:44	1
4-Bromofluorobenzene (Surr)	86		61 - 120		10/06/15 18:44	1
Toluene-d8 (Surr)	91		80 - 120		10/06/15 18:44	1
Dibromofluoromethane (Surr)	97		79 - 120		10/06/15 18:44	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

GC/MS VOA

Analysis Batch: 200531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55868-1	GW-12607-092515-EM-024	Total/NA	Water	8260B	
240-55868-2	TB-12607-092515-EM	Total/NA	Water	8260B	
LCS 240-200531/8	Lab Control Sample	Total/NA	Water	8260B	
MB 240-200531/6	Method Blank	Total/NA	Water	8260B	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

Lab Sample ID: MB 240-200531/6

Matrix: Water

Analysis Batch: 200531

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	0.94	ug/L			10/06/15 13:51	1
Benzene	1.0	U	1.0	0.35	ug/L			10/06/15 13:51	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			10/06/15 13:51	1
Bromoform	1.0	U	1.0	0.56	ug/L			10/06/15 13:51	1
Bromomethane	1.0	U	1.0	0.44	ug/L			10/06/15 13:51	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			10/06/15 13:51	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			10/06/15 13:51	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			10/06/15 13:51	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 13:51	1
Chloroethane	1.0	U	1.0	0.32	ug/L			10/06/15 13:51	1
Chloroform	1.0	U	1.0	0.25	ug/L			10/06/15 13:51	1
Chloromethane	1.0	U	1.0	0.44	ug/L			10/06/15 13:51	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			10/06/15 13:51	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			10/06/15 13:51	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			10/06/15 13:51	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			10/06/15 13:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			10/06/15 13:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			10/06/15 13:51	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			10/06/15 13:51	1
2-Hexanone	10	U	10	0.48	ug/L			10/06/15 13:51	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			10/06/15 13:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			10/06/15 13:51	1
Styrene	1.0	U	1.0	0.45	ug/L			10/06/15 13:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			10/06/15 13:51	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			10/06/15 13:51	1
Toluene	1.0	U	1.0	0.23	ug/L			10/06/15 13:51	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			10/06/15 13:51	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			10/06/15 13:51	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			10/06/15 13:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			10/06/15 13:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			10/06/15 13:51	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			10/06/15 13:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			10/06/15 13:51	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			10/06/15 13:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			10/06/15 13:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			10/06/15 13:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/06/15 13:51	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			10/06/15 13:51	1
Methyl acetate	10	U	10	2.3	ug/L			10/06/15 13:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			10/06/15 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			10/06/15 13:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			10/06/15 13:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			10/06/15 13:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			10/06/15 13:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			10/06/15 13:51	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			10/06/15 13:51	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			10/06/15 13:51	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			10/06/15 13:51	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 125		10/06/15 13:51	1
4-Bromofluorobenzene (Surr)	86		61 - 120		10/06/15 13:51	1
Toluene-d8 (Surr)	92		80 - 120		10/06/15 13:51	1
Dibromofluoromethane (Surr)	95		79 - 120		10/06/15 13:51	1

Lab Sample ID: LCS 240-200531/8

Matrix: Water

Analysis Batch: 200531

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	15.5		ug/L		78	34 - 148
Benzene	10.0	9.61		ug/L		96	80 - 120
Bromodichloromethane	10.0	9.72		ug/L		97	80 - 120
Bromoform	10.0	8.94		ug/L		89	56 - 122
Bromomethane	10.0	8.39		ug/L		84	38 - 132
2-Butanone (MEK)	20.0	18.3		ug/L		92	56 - 138
Carbon disulfide	10.0	7.53		ug/L		75	65 - 144
Carbon tetrachloride	10.0	8.99		ug/L		90	77 - 131
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Chloroethane	10.0	10.4		ug/L		104	36 - 126
Chloroform	10.0	10.1		ug/L		101	80 - 120
Chloromethane	10.0	9.01		ug/L		90	48 - 133
1,1-Dichloroethane	10.0	9.50		ug/L		95	79 - 125
1,2-Dichloroethane	10.0	9.79		ug/L		98	80 - 120
1,1-Dichloroethene	10.0	7.89		ug/L		79	76 - 124
1,2-Dichloropropane	10.0	10.0		ug/L		100	78 - 124
cis-1,3-Dichloropropene	10.0	9.38		ug/L		94	74 - 126
trans-1,3-Dichloropropene	10.0	9.94		ug/L		99	75 - 131
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
2-Hexanone	20.0	22.5		ug/L		113	55 - 141
Methylene Chloride	10.0	9.08		ug/L		91	77 - 129
4-Methyl-2-pentanone (MIBK)	20.0	21.3		ug/L		107	64 - 135
Styrene	10.0	10.7		ug/L		107	76 - 122
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	71 - 123
Tetrachloroethene	10.0	10.5		ug/L		105	78 - 121
Toluene	10.0	10.4		ug/L		104	80 - 120
Trichloroethene	10.0	10.4		ug/L		104	80 - 121
Vinyl chloride	10.0	9.92		ug/L		99	52 - 121
Xylenes, Total	20.0	21.6		ug/L		108	80 - 120
1,1,1-Trichloroethane	10.0	9.46		ug/L		95	77 - 123
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	80 - 120
Cyclohexane	10.0	9.65		ug/L		97	60 - 140
1,2-Dibromo-3-Chloropropane	10.0	8.13		ug/L		81	50 - 132
1,2-Dibromoethane	10.0	10.5		ug/L		105	80 - 120
Dichlorodifluoromethane	10.0	10.4		ug/L		104	23 - 136
cis-1,2-Dichloroethene	10.0	9.66		ug/L		97	79 - 120
trans-1,2-Dichloroethene	10.0	9.42		ug/L		94	80 - 124
Isopropylbenzene	10.0	11.3		ug/L		113	77 - 120
Methyl acetate	50.0	47.2		ug/L		94	67 - 131
Methyl tert-butyl ether	10.0	9.16		ug/L		92	69 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.90		ug/L		89	67 - 138
1,2,4-Trichlorobenzene	10.0	8.30		ug/L		83	61 - 120
1,2-Dichlorobenzene	10.0	9.96		ug/L		100	79 - 120

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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

Lab Sample ID: LCS 240-200531/8

Matrix: Water

Analysis Batch: 200531

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	10.3		ug/L		103	79 - 120
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	79 - 120
Trichlorofluoromethane	10.0	9.10		ug/L		91	61 - 133
Dibromochloromethane	10.0	9.60		ug/L		96	74 - 120
Methylcyclohexane	10.0	10.7		ug/L		107	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		78 - 125
4-Bromofluorobenzene (Surr)	97		61 - 120
Toluene-d8 (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	90		79 - 120

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

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 (78-125)	BFB (61-120)	TOL (80-120)	DBFM (79-120)
240-55868-1	GW-12607-092515-EM-024	98	86	93	98
240-55868-2	TB-12607-092515-EM	98	86	91	97
LCS 240-200531/8	Lab Control Sample	90	97	98	90
MB 240-200531/6	Method Blank	96	86	92	95

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Client Sample ID: GW-12607-092515-EM-024

Date Collected: 09/25/15 09:40

Date Received: 09/26/15 09:45

Lab Sample ID: 240-55868-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200531	10/06/15 18:22	RJQ	TAL CAN

Client Sample ID: TB-12607-092515-EM

Date Collected: 09/25/15 00:00

Date Received: 09/26/15 09:45

Lab Sample ID: 240-55868-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	200531	10/06/15 18:44	RJQ	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 12607-019, RACER Eckles Rd

TestAmerica Job ID: 240-55868-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Illinois	NELAP	5	200004	07-31-16
Kansas	NELAP	7	E-10336	01-31-16 *
Kentucky (UST)	State Program	4	58	02-26-16
Kentucky (VW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-16
New Jersey	NELAP	2	OH001	10-30-15 *
New York	NELAP	2	10975	03-31-16
Ohio VAP	State Program	5	CL0024	10-31-15 *
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-16
Texas	NELAP	6	T104704517-15-5	08-31-16
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-16
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Canton

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-55868 Chain of Custody

Phone: 810.229.2763 Fax:

3.2/C1.7

Chain of Custody Record

109201

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

[illegible]

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Client GHD Site Name _____ Login # : _____

Cooler Received on 9/26/15 Opened on 9/26/15 Cooler unpacked by: Heather Magon

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

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

TestAmerica Cooler # _____ Foam Box Client Cooler Box _____ Other _____

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

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp. 1.7 °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No ☐ See Multiple Cooler Form

-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. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612

12. Were VOAs on the COC? Yes No

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

14. Was a trip blank present in the cooler(s)? Trip Blank Lot # BST0201VB Yes No

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

15. SAMPLE CONDITION

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

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

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

16. SAMPLE PRESERVATION

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

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

Exhibit 3

GMP Data Validation Memorandum



Memorandum

To: Chris Meincke

Ref. No.: 12607

From: Ruth Mickle/tl/242/Det

Date: October 28, 2015

Re: **Analytical Results and Reduced Validation**
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of GMP Monitoring at the 13000 Eckles Road Site during September 2015. Samples were submitted to TestAmerica Laboratories, Inc., located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable documents entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-08-01, June 2008
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody documents and analytical reports were used to determine sample holding times. The samples were prepared and analyzed within the required holding times.

The samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Several low concentrations of target parameters were detected in the method blanks which indicate a potential for laboratory contamination. The associated samples that contained similar concentrations of these compounds were assumed to be a reflection of laboratory contamination and the results were qualified non-detect, as detailed in Table 4.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against laboratory control limits. The surrogate recoveries met the above criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

5.1 Organic Analyses

The LCS contained all compounds of interest. The percent recoveries were within the laboratory control limits. All LCS recoveries were within the laboratory (method) control limits, demonstrating acceptable analytical accuracy.

5.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

6.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest.

Table 5 presents the outlying matrix spike data. The associated sample results were qualified estimated, as noted in the table. The remaining percent recoveries and RPD values were within the control limits or outlying percent recoveries and RPD values did not result in qualification.

6.2 Inorganic Analyses

The matrix spike samples were spiked with the analytes of interest and the results were evaluated using the "Guidelines". The percent recoveries and RPD values were within the laboratory control limits or outlying percent recoveries did not result in qualification, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of three trip blank samples and two field duplicate samples.

7.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blanks were submitted to the laboratory for VOC analysis. One trip blank yielded detections of acetone and methylene chloride. However, since the associated sample detections were previously qualified nondetect based on method blanks, no data qualification was required based on trip blank results.

The remaining trip blank data were free of target parameters.

7.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the reporting limit (RL) but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
GMP Monitoring
13000 Eckles Road Site
Livonia, Michigan
September 2015

Analysis/Parameters											
Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Total Nickel						Comments
					Total Chromium	Trivalent Chromium	Hexavalent Chromium	VOCs	1,4-Dioxane		
TestAmerica Lab SDG: 240-55783-1											
GW-12607-092115-EM-001	MW-217S	water	09/21/2015	12:15	--	--	--	--	X	--	
GW-12607-092115-EM-002	MW-214S	water	09/21/2015	13:30	--	--	--	--	X	--	
GW-12607-092115-EM-003	MW-206S	water	09/21/2015	14:55	--	--	--	--	X	--	
GW-12607-092115-EM-004	MW-211S	water	09/21/2015	15:50	--	--	--	--	X	--	
GW-12607-092115-EM-005	MW-215S	water	09/21/2015	16:35	--	--	--	--	X	X	
GW-12607-092215-EM-006	MW-213S	water	09/22/2015	9:45	--	--	--	--	X	X	
GW-12607-092215-EM-007	MW-216S	water	09/22/2015	10:50	--	--	--	--	X	--	
GW-12607-092215-EM-008	MW-303S	water	09/22/2015	12:20	--	--	--	--	X	--	Field Duplicate of -EM-008
GW-12607-092215-EM-009	MW-303S	water	09/22/2015	12:45	--	--	--	--	X	--	
GW-12607-092215-EM-010	MW-203S	water	09/22/2015	14:40	--	--	--	--	X	--	
GW-12607-092215-EM-011	MW-202S	water	09/22/2015	15:45	--	--	--	--	X	X	
GW-12607-092215-EM-012	MW-201S	water	09/22/2015	16:35	--	--	--	--	X	--	
GW-12607-092315-EM-013	MW-OS-4D	water	09/23/2015	9:20	X	--	--	--	--	--	Field Duplicate of -EM-013
GW-12607-092315-EM-014	MW-OS-4D	water	09/23/2015	9:25	X	--	--	--	--	--	
GW-12607-092315-EM-015	MW-OS-4S	water	09/23/2015	9:35	X	--	--	--	--	--	
GW-12607-092315-EM-016	MW-OS-8D	water	09/23/2015	10:10	X	--	--	--	--	--	
GW-12607-092315-EM-017	MW-OS-5D	water	09/23/2015	10:40	X	--	--	--	--	--	
GW-12607-092315-EM-018	MW-103S	water	09/23/2015	10:15	--	--	--	--	X	X	MS/MSD (partial parameter)
GW-12607-092315-EM-019	HA-16	water	09/23/2015	11:25	X	--	--	--	--	--	
GW-12607-092315-EM-020	MW-OS-7D	water	09/23/2015	13:45	X	--	--	--	--	--	
GW-12607-092315-EM-021	MW-OS-6D	water	09/23/2015	15:10	X	--	--	--	--	--	
GW-12607-092315-EM-022	OW-24	water	09/23/2015	13:30	X	X	X	X	--	--	MS/MSD (partial parameter)
GW-12607-092315-EM-023	HA-14	water	09/23/2015	14:25	X	X	X	X	--	--	MS/MSD (partial parameter)
TB-12607-092315-A	Trip Blank	water	09/23/2015	--	--	--	--	--	X	--	Trip Blank
TB-12607-092315-B	Trip Blank	water	09/23/2015	--	--	--	--	--	--	X	Trip Blank

Table 1

Sample Collection and Analysis Summary
GMP Monitoring
13000 Eckles Road Site
Livonia, Michigan
September 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
					Total Nickel	Total Chromium	Trivalent Chromium	Hexavalent Chromium	VOCs	
TestAmerica Lab SDG: 240-55888-1										
GW-12607-092515-EM-024	MW-205S	water	09/25/2015	9:40	-	-	-	-	X	-
TB-12607-092515-EM	Trip Blank	water	09/25/2015	--	-	-	-	-	X	-
										Trip Blank

Notes:

- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- SDG - Sample Delivery Group
- VOCs - Volatile Organic Compounds

Table 2

Validated Analytical Results Summary
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID:	HA-14	HA-16	MW-103S	MW-201S	MW-202S	MW-203S
Sample Name:	GW-12607-092215-EM-023	GW-12607-092215-EM-019	GW-12607-092215-EM-018	GW-12607-092215-EM-012	GW-12607-092215-EM-011	GW-12607-092215-EM-010
Sample Date:	09/22/2015	09/22/2015	09/22/2015	09/22/2015	09/22/2015	09/22/2015
Depth:						
Parameters	Unit					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	13 J	5.9	14	12	
1,1,1,2-Tetrachloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.7 U	1.1	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,4-Dioxane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromodichloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethane	µg/L	4.4 J	1.0 U	1.0 U	1.0 U	0.90 J
Trichlorofluoromethane (CFC-11)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 2
Validated Analytical Results Summary
GMP Monitoring
13600 Eckles Road
Livonia, Michigan
September 2015

Location ID: Sample Name: Sample Date: Depth:	HA-14 GW-12607-092315-EM-023 09/23/2015	HA-16 GW-12607-092315-EM-019 09/23/2015	MW-103S GW-12607-092315-EM-018 09/23/2015	MW-201S GW-12607-092216-EM-012 09/22/2015	MW-202S GW-12607-092215-EM-011 09/22/2015	MW-203S GW-12607-092215-EM-010 09/22/2015
Parameters						
Unit						
Volatiles Organic Compounds						
Trifluorotrichloroethane (CFC-113)	--	--	1.7 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	--	--	1.7 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	--	--	3.3 U	2.0 U	2.0 U	2.0 U
Metals						
Chromium III (trivalent)	0.0050 U	--	--	--	--	--
Chromium VI (hexavalent)	0.0050 U	--	--	--	--	--
Nickel	2.3 J	350000	--	--	--	--
	120					

Table 2

Validated Analytical Results Summary

GHP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID: Sample Name: Sample Date: Depth:	MW-205S GW-12607-092115-EM-024 09/25/2015	MW-206S GW-12607-092115-EM-003 09/21/2015	MW-211S GW-12607-092115-EM-004 09/21/2015	MW-213S GW-12607-092115-EM-006 09/22/2015	MW-214S GW-12607-092115-EM-002 09/21/2015	MW-215S GW-12607-092115-EM-005 09/21/2015	
Parameters	Unit	12	12	12	30	8.6	15
Volatile Organic Compounds	µg/L						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
1,4-Dioxane	µg/L	--	--	--	2.0 U	--	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	50 U	10 U	20 U
2-Hexanone	µg/L	10 U	10 U	10 U	50 U	10 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	50 U	10 U	20 U
Acetone	µg/L	10 U	10 U	10 U	50 U	10 U	20 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Bromotoluene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	10 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.3 J	1.0 U	0.99 J
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Dibromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	50 U	10 U	20 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	10 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Trichloroethene	µg/L	1.2	1.0 U	1.0 U	150	1.0 U	45
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U

Table 2

Validated Analytical Results Summary
 GMP Monitoring
 13000 Eckles Road
 Livonia, Michigan
 September 2015

Location ID:	MW-206S	MW-206S	MW-211S	MW-213S	MW-214S	MW-215S
Sample Name:	GW-12607-092115-EM-024	GW-12607-092115-EM-003	GW-12607-092115-EM-004	GW-12607-092215-EM-006	GW-12607-092115-EM-002	GW-12607-092115-EM-005
Sample Date:	09/25/2015	09/21/2015	09/21/2015	09/22/2015	09/21/2015	09/21/2015
Depth:						
Parameters	Unit					
Volatiles Organic Compounds						
Trifluoromethane (CFC-113)	µg/L	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	5.0 U	1.0 U	2.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	10 U	2.0 U	4.0 U
Metals	mg/L					
Chromium III (trivalent)	mg/L	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-

Table 2

Validated Analytical Results Summary
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID:	MW-216S	MW-217S	MW-303S	MW-OS-4D	MW-OS-4D
Sample Name:	GW-12607-092215-EM-007	GW-12607-092215-EM-001	GW-12607-092215-EM-008	GW-12607-092315-EM-013	GW-12607-092315-EM-014
Sample Date:	09/22/2015	09/21/2015	09/22/2015	09/23/2015	09/23/2015
Depth:					
Parameters					
Unit					
Volatile Organic Compounds					
1,1,1-Trichloroethane	1.0 U	51	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	2.1	1.0 U	1.0 U	0.31 U
1,1-Dichloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
2-Hexanone	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Acetone	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Benzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Bromoforn	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	1.0 U	0.36 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Tetrachloroethane	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U

Table 2
Validated Analytical Results Summary
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID:	MW-216S	MW-217S	MW-303S	MW-303S	MW-303S	MW-OS-4D	MW-OS-4D
Sample Name:	GW-12607-092215-EM-007	GW-12607-092115-EM-001	GW-12607-092215-EM-008	GW-12607-092215-EM-009	GW-12607-092315-EM-013	GW-12607-092315-EM-014	GW-12607-092315-EM-014
Sample Date:	09/22/2015	09/21/2015	09/22/2015	09/22/2015	09/22/2015	09/23/2015	09/23/2015
Depth:	--	--	--	--	--	--	--
Parameters							
Unit							
Volatiles Organic Compounds							
Trifluorochloroethane (CFC-113)	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U	--	--
Vinyl chloride	1.0 U	1.7 U	1.0 U	1.0 U	1.0 U	--	--
Xylenes (total)	2.0 U	3.3 U	2.0 U	2.0 U	2.0 U	--	--
Metals							
Chromium III (trivalent)	--	--	--	--	--	--	--
Chromium VI (hexavalent)	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	410000	390000

Table 2

Validated Analytical Results Summary
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID:	MW-OS-49	MW-OS-5D	MW-OS-6D	MW-OS-7D	MW-OS-8D	OW-24
Sample Name:	GW-12607-092315-EM-015	GW-12607-092315-EM-017	GW-12607-092315-EM-021	GW-12607-092315-EM-020	GW-12607-092315-EM-016	GW-12607-092315-EM-022
Sample Date:	09/23/2015	09/23/2015	09/23/2015	09/23/2015	09/23/2015	09/23/2015
Depth:						
Parameters	Unit					
Volatiles Organic Compounds						
1,1,1-Trichloroethane	µg/L	---	---	---	---	---
1,1,2,2-Tetrachloroethane	µg/L	---	---	---	---	---
1,1,2-Trichloroethane	µg/L	---	---	---	---	---
1,1-Dichloroethane	µg/L	---	---	---	---	---
1,2-Dichloroethane	µg/L	---	---	---	---	---
1,2,4-Trichlorobenzene	µg/L	---	---	---	---	---
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	---	---	---	---	---
1,2-Dibromodichloroethane (Ethylene dibromide)	µg/L	---	---	---	---	---
1,2-Dichlorobenzene	µg/L	---	---	---	---	---
1,2-Dichloropropane	µg/L	---	---	---	---	---
1,3-Dichlorobenzene	µg/L	---	---	---	---	---
1,4-Dichlorobenzene	µg/L	---	---	---	---	---
1,4-Dioxane	µg/L	---	---	---	---	---
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	---	---	---	---	---
2-Hexanone	µg/L	---	---	---	---	---
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	---	---	---	---	---
Acetone	µg/L	---	---	---	---	---
Benzene	µg/L	---	---	---	---	---
Bromodichloromethane	µg/L	---	---	---	---	---
Bromoform	µg/L	---	---	---	---	---
Bromomethane (Methyl bromide)	µg/L	---	---	---	---	---
Carbon disulfide	µg/L	---	---	---	---	---
Carbon tetrachloride	µg/L	---	---	---	---	---
Chlorobenzene	µg/L	---	---	---	---	---
Chloroethane	µg/L	---	---	---	---	---
Chloroform (Trichloromethane)	µg/L	---	---	---	---	---
Chloromethane (Methyl chloride)	µg/L	---	---	---	---	---
cis-1,2-Dichloroethane	µg/L	---	---	---	---	---
cis-1,3-Dichloropropene	µg/L	---	---	---	---	---
Cyclohexane	µg/L	---	---	---	---	---
Dibromodichloromethane	µg/L	---	---	---	---	---
Dichlorodifluoromethane (CFC-12)	µg/L	---	---	---	---	---
Ethylbenzene	µg/L	---	---	---	---	---
Isopropyl benzene	µg/L	---	---	---	---	---
Methyl acetate	µg/L	---	---	---	---	---
Methyl cyclohexane	µg/L	---	---	---	---	---
Methyl tert butyl ether (MTBE)	µg/L	---	---	---	---	---
Methylene chloride	µg/L	---	---	---	---	---
Styrene	µg/L	---	---	---	---	---
Tetrachloroethene	µg/L	---	---	---	---	---
Toluene	µg/L	---	---	---	---	---
trans-1,2-Dichloroethene	µg/L	---	---	---	---	---
trans-1,3-Dichloropropene	µg/L	---	---	---	---	---
Trichloroethane	µg/L	---	---	---	---	---
Trichlorofluoromethane (CFC-11)	µg/L	---	---	---	---	---

Table 2

Validated Analytical Results Summary
 GMP Monitoring
 13000 Eckles Road
 Livonia, Michigan
 September 2015

Location ID:	MW-OS-4S	MW-OS-5D	MW-OS-6D	MW-OS-7D	MW-OS-8D	OW-24
Sample Name:	GW-12607-092315-EM-015	GW-12607-092315-EM-017	GW-12607-092315-EM-021	GW-12607-092315-EM-020	GW-12607-092315-EM-016	GW-12607-092315-EM-022
Sample Date:	09/23/2015	09/23/2015	09/23/2015	09/23/2015	09/23/2015	09/23/2015
Depth:	—	—	—	—	—	—
Parameters	Unit					
Volatile Organic Compounds						
Trifluorochloroethane (CFC-113)	µg/L	—	—	—	—	—
Vinyl chloride	µg/L	—	—	—	—	—
Xylenes (total)	µg/L	—	—	—	—	—
Metals						
Chromium III (trivalent)	mg/L	—	—	—	—	19
Chromium VI (hexavalent)	mg/L	—	—	—	—	65
Chromium	µg/L	—	—	—	—	84000
Nickel	µg/L	13000	20 J	27 J	18 J	11000

Table 2

Validated Analytical Results Summary
 GHP Monitoring
 13000 Eckles Road
 Livonia, Michigan
 September 2015

Location ID:	Trip Blank
Sample Name:	TB-12607-092516-EM
Sample Date:	09/25/2015
Depth:	—
Parameters	Unit
Volatile Organic Compounds	
1,1,1-Trichloroethane	µg/L 1.0 U
1,1,2,2-Tetrachloroethane	µg/L 1.0 U
1,1,2-Trichloroethane	µg/L 1.0 U
1,1-Dichloroethane	µg/L 1.0 U
1,1-Dichloroethene	µg/L 1.0 U
1,2,4-Trichlorobenzene	µg/L 1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L 1.0 U
1,2-Dibromochloroethane (Ethylene dibromide)	µg/L 1.0 U
1,2-Dichlorobenzene	µg/L 1.0 U
1,2-Dichloroethane	µg/L 1.0 U
1,2-Dichloropropane	µg/L 1.0 U
1,3-Dichlorobenzene	µg/L 1.0 U
1,4-Dichlorobenzene	µg/L 1.0 U
1,4-Dioxane	—
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L 10 U
2-Hexanone	µg/L 10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L 10 U
Acetone	µg/L 15
Benzene	µg/L 1.0 U
Bromodichloromethane	µg/L 1.0 U
Bromoforn	µg/L 1.0 U
Bromomethane (Methyl bromide)	µg/L 1.0 U
Carbon disulfide	µg/L 5.0 U
Carbon tetrachloride	µg/L 1.0 U
Chlorobenzene	µg/L 1.0 U
Chloroethane	µg/L 1.0 U
Chloroform (Trichloromethane)	µg/L 1.0 U
Chloromethane (Methyl chloride)	µg/L 1.0 U
cis-1,2-Dichloroethene	µg/L 1.0 U
cis-1,3-Dichloropropene	µg/L 1.0 U
Cyclohexane	µg/L 1.0 U
Dibromodichloromethane	µg/L 1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L 1.0 U
Ethylbenzene	µg/L 1.0 U
Isopropyl benzene	µg/L 1.0 U
Methyl acetate	µg/L 10 U
Methyl cyclohexane	µg/L 1.0 U
Methyl tert butyl ether (MTBE)	µg/L 1.0 U
Methylene chloride	µg/L 0.43 U
Styrene	µg/L 1.0 U
Tetrachloroethane	µg/L 1.0 U
Toluene	µg/L 1.0 U
trans-1,2-Dichloroethene	µg/L 1.0 U
trans-1,3-Dichloropropene	µg/L 1.0 U
Trichloroethene	µg/L 1.0 U
Trichlorofluoromethane (CFC-11)	µg/L 1.0 U

Table 2
Validated Analytical Results Summary
GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Location ID:	Trip Blank
Sample Name:	TB-12607-092515-EM
Sample Date:	09/25/2015
Depth:	--
Parameters	Unit
Volatile Organic Compounds	
Trifluorotrichloroethane (CFC-113)	1.0 U
Vinyl chloride	1.0 U
Xylenes (total)	2.0 U
Metals	
Chromium III (trivalent)	--
Chromium VI (hexavalent)	--
Chromium	µg/L
Nickel	µg/L

Notes:
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
J - Estimated concentration

Table 3

**Analytical Methods
GMP Monitoring
13000 Eckles Road Site
Livonia, Michigan
September 2015**

Parameter	Method ¹	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOCs	SW 8260B	water	-	14
1,4- Dioxane	SW 8260B SIM	water	-	14
Total Nickel & Chromium	SW 6010B	water	-	180
Trivalent & Hexavalent Chromium	SW 7196A	water	-	24 hours

Notes:

¹ Method References:

SW "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

VOCs - Volatile Organic Compounds

Table 4

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks

GMP Monitoring
13000 Eckles Road
Livonia, Michigan
September 2015

Parameter	Analyte	Analysis Date	Blank Result	Sample ID	Original Result	Qualified Result	Units
VOCs	Acetone	09/30/15	1.51 J	GW-12607-092115-EM-005	2.0 JB	20 U	µg/L
VOCs	Acetone	10/02/15	1.29 J	GW-12607-092215-EM-006	5.1 JB	50 U	µg/L
VOCs	Methylene Chloride	09/30/15	1.51 J	GW-12607-092115-EM-005	1.2 JB	10 U	µg/L
VOCs	Methylene Chloride	10/02/15	0.582 J	GW-12607-092215-EM-006	2.9 JB	25 U	µg/L

Notes:

- VOCs - Volatile Organic Compounds
 U - Not detected at the associated reporting limit
 B - Laboratory qualifier - result detected in associated method blank
 J - Estimated concentration

Table 5

Qualified Sample Results Due to Outlying MS/MSD Results

GMP Monitoring
13000 Eckles Road Site
Livonia, Michigan
September 2015

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	RPD	Qualified Sample	Qualified Result	Units
VOCs	GW-12607-092315-EM-018	1,1,1-Trichloroethane	32	23	8	69-122	14	GW-12607-092315-EM-018	13 J	µg/L
		1,1-Dichloroethene	58	52	10	67-124	24	GW-12607-092315-EM-018	1.7 UJ	µg/L
		1,3-Dichlorobenzene	58	53	8	65-120	15	GW-12607-092315-EM-018	1.7 UJ	µg/L
		1,4-Dichlorobenzene	62	56	10	66-120	16	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Carbon disulfide	48	41	15	54-144	34	GW-12607-092315-EM-018	8.4 UJ	µg/L
		Carbon tetrachloride	56	48	16	65-129	20	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Chlorobenzene	67	61	10	72-120	15	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Cyclohexane	30	29	4	41-137	35	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Ethylbenzene	54	47	15	68-121	16	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Isopropyl benzene	44	40	10	61-122	20	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Methyl cyclohexane	24	24	1	39-135	35	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Tetrachloroethene	49	43	12	59-125	20	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Toluene	64	58	10	72-122	15	GW-12607-092315-EM-018	1.7 UJ	µg/L
		Trichloroethene	0	0	6	61-129	14	GW-12607-092315-EM-018	44 J	µg/L
		Xylenes (total)	57	51	11	67-122	14	GW-12607-092315-EM-018	3.3 UJ	µg/L

Notes:

MS - Matrix spike
MSD - Matrix spike duplicate
RPD - Relative percent difference
VOCs - Volatile Organic Compounds
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated