



**CONESTOGA-ROVERS
& ASSOCIATES**

651 Colby Drive, Waterloo, Ontario, Canada N2V 1C2
Telephone: (519) 884-0510 Facsimile: (519) 884-0525
www.CRAworld.com

June 23, 2015

Reference No. 012636-T09

Mr. Richard Conforti
Hazardous Waste Section, Resource Management Division
Michigan Department of Environmental Quality
525 W. Allegan (Constitution Hall)
Lansing, Michigan
U.S.A. 48933

Dear Mr. Conforti:

Re: Supplemental RFI Groundwater Monitoring
Annual Monitoring Report (March 31, 2014 to April 30, 2015)
Former Peregrine (US) Inc. (Peregrine) Coldwater Road Facility
Genesee Township, Michigan

This letter, prepared by Conestoga-Rovers & Associates (CRA) on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), presents the Supplemental Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Groundwater Investigation Annual Monitoring Report (AMR) for the former Peregrine Coldwater Road Facility (Site) located at 1245E Coldwater Road in Genesee Township, near Flint, Michigan. The AMR has been prepared for the period of March 31, 2014 and April 30, 2015 in accordance with the "Supplemental RFI Groundwater Investigation Work Plan and Groundwater Monitoring Plan" (Monitoring Plan; CRA, September 16, 2013) which was approved by the MDEQ on October 15, 2013.

This letter includes the following enclosures:

Figure 1	Groundwater Monitoring Locations
Figure 2	Drift Aquifer Groundwater Contours and March 2015 Groundwater Elevations
Figure 3	Shallow Groundwater Monitoring Results Summary
Figure 4	Deep Groundwater Monitoring Results Summary
Table 1	2014/2015 Groundwater Monitoring Well Network
Table 2	Summary of Water Elevation and Turbidity Readings
Table 3	2014/2015 Shallow Groundwater Results Summary



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Table 4	2014/2015 Deep Groundwater Results Summary
Table 5	2015/2016 Groundwater Monitoring Well Network
Attachment A	Field Data Records
Attachment B	Historic Groundwater Analytical Results (December 2010 to March 2014)
Attachment C	Data Validation Report and Laboratory Analytical Results

1.0 Activities Completed During Monitoring Period

The following activities were completed during this monitoring period:

- Q2-2014 Groundwater Monitoring (June 9 to 10, 2014)
- Q3-2014 Groundwater Monitoring (September 9 to 10, 2014)
- Monitoring Well Repairs at PFW-4 and MW-1-02 (October 7, 2014)
- Q4-2014 Groundwater Monitoring (December 9 to 10, 2014)
- Q1-2015 Comprehensive Groundwater Monitoring (March 25 to 27, 2015)
- Monitoring Well Repair and sampling at MW-15-10

1.1 Q2-2014 Groundwater Monitoring (June 9 to 10, 2014)

In accordance with the approved Monitoring Plan, the first round of quarterly groundwater monitoring at eight perched aquifer (shallow) monitoring wells was completed between June 9 and 10, 2014 (Q2-2014). In addition, since PFW-4 was unable to be sampled during the Q1-2014 monitoring event due to standing, frozen water covering the well (as presented in the 2013/2014 AMR), a sample was collected during this event. Table 1 presents a summary of the monitoring well network details and Figure 1 presents the monitoring locations. Note that ponded water present around PFW-4 during the Q1-2014 event had dried up and PFW-4 was able to be sampled this quarter; modifications to PFW-4 were scheduled to be completed prior to the next round sampling as described in Section 1.3.

All groundwater samples were collected using low flow sampling procedures. Samples were collected following the stabilization of field parameters (pH, turbidity, temperature, conductivity, dissolved oxygen, and oxygen reduction potential). All samples were analyzed for total/dissolved manganese and lead. The sample collected at PFW-4 was analyzed for VOCs,



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amenable cyanide, and dissolved metals. Total metals were not analyzed at PFW-4 as low flow sampling was unable to yield turbidity readings of 10 NTU or less.

The field sampling records have been included in Attachment A and a summary of the groundwater elevations and turbidity readings is presented in Table 2. A results summary for this event was submitted to the MDEQ on August 14, 2014 as part of a response to comments on the 2013/2014 AMR.

1.2 Q3-2014 Groundwater Monitoring (September 9 to 10, 2014)

In accordance with the approved Monitoring Plan, the second round of quarterly groundwater monitoring was completed at eight perched aquifer (shallow) monitoring wells between September 9 and 10, 2014 (Q3-2014). Table 1 presents a summary of the monitoring well network details and Figure 1 presents the monitoring locations.

All groundwater samples were collected using low flow sampling procedures. Samples were collected following the stabilization of field parameters (pH, turbidity, temperature, conductivity, dissolved oxygen, and oxygen reduction potential). All samples were analyzed for total/dissolved manganese and lead.

The field sampling records have been included in Attachment A and a summary of the groundwater elevations and turbidity readings is presented in Table 2. A results summary for this event was submitted to the MDEQ on November 21, 2014.

It was also noted during this monitoring event that monitoring well MW-1-02 had been damaged (the riser had been knocked over). MW-1-2 is not included in the current monitoring program, however, arrangements were made to repair the monitoring well at the same time as the PFW-4 repairs discussed in Section 1.3, below.

1.3 Monitoring Well Repairs at PFW-4 and MW-1-02

In accordance with the recommendations in the 2013/2014 AMR, on October 7, 2014 modifications to monitoring well PFW-4 were completed that included converting the flush mount casing to a stick up casing, grading the immediate area surrounding the monitoring well to promote drainage away from the base of the monitoring well, and the installation of protective bollards to prevent future damage to the monitoring well.



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In addition to the repairs to PFW-4, repairs to MW-1-02 were also completed.

1.4 Q4-2014 Groundwater Monitoring (December 9 to 10, 2014)

In accordance with the approved Monitoring Plan, the third round of quarterly groundwater monitoring was completed at eight perched aquifer (shallow) monitoring wells between December 9 and 10, 2014 (Q4-2014). Table 1 presents a summary of the monitoring well network details and Figure 1 presents the monitoring locations.

All groundwater samples were collected using low flow sampling procedures. Samples were collected following the stabilization of field parameters (pH, turbidity, temperature, conductivity, dissolved oxygen, and oxygen reduction potential). All samples were analyzed for total/dissolved manganese and lead.

The field sampling records have been included in Attachment A and a summary of the groundwater elevations and turbidity readings is presented in Table 2. A results summary for this event was submitted to the MDEQ on April 13, 2015.

1.5 Q1-2015 Comprehensive Groundwater Monitoring

In accordance with the approved Monitoring Plan, the comprehensive groundwater monitoring event was completed at three drift aquifer (deep) monitoring wells and twelve perched aquifer (shallow) monitoring wells between March 25 and 27, 2015 (Q1-2015). MW-15-10 was not able to be sampled, since the sampling equipment could not fit down the monitoring well as a result of a bulge in the riser. MW-15-10 was repaired and sampled as described in Section 1.6, below. Table 1 presents a summary of the monitoring well network details and Figure 1 presents the monitoring locations.

All groundwater samples were collected using low flow sampling procedures. Samples were collected following the stabilization of field parameters (pH, turbidity, temperature, conductivity, dissolved oxygen, and oxygen reduction potential). All samples were analyzed for VOCs, amenable cyanide, and dissolved metals; and in accordance with the approved Monitoring Plan, if low flow sampling yielded turbidity readings of 10 NTU or less, total metals analysis was also performed.

The field sampling records have been included in Attachment A and a summary of the groundwater elevations and turbidity readings is presented in Table 2. Figure 2 presents a



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summary of the groundwater elevations collected between March 25 and 27, 2015 along with groundwater contours for the drift aquifer.

1.6 Monitoring Well Repair and sampling at MW-15-10

During the Q1 2015 comprehensive groundwater monitoring event MW-15-10 was found damaged and as a result was unable to be sampled. MW-15-10 was repaired on April 11, 2015, purged on April 13, 2015, and a groundwater sample was collected on April 29, 2015. The MW-15-10 sample was collected using low flow sampling procedures. Samples were collected following the stabilization of field parameters (pH, turbidity, temperature, conductivity, dissolved oxygen, and oxygen reduction potential). The sample was analyzed for VOCs, amenable cyanide, and dissolved metals.

The field sampling records have been included in Attachment A and the groundwater elevation and turbidity reading is presented in Table 2.

2.0 Screening Criteria

Groundwater results were initially screened against the Site-specific background values (BVs). Those constituents exceeding Site-specific BVs were then screened against the following generic risk-based cleanup criteria from Part 201 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451, and identified in the MDEQ RRD Cleanup Criteria Requirements for Response Activity R299.44 (Table 1), December 30, 2013, pursuant to 1994 PA 451 as amended:

- Nonresidential Drinking Water Aesthetic and Health Based Criteria
- Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Residential Drinking Water Aesthetic and Health Based Criteria
- Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Ground/Surface Water Interface (GSI) Criteria

Groundwater concentrations are screened against both the more conservative aesthetic drinking water criteria and the health based drinking water criteria for aluminum, iron and manganese.



3.0 Groundwater Monitoring Results

3.1 Shallow Groundwater Monitoring Results

Figure 3 presents a summary of the groundwater results for all constituents that exceeded criteria per the screening process described above in Section 2.0 and quarterly monitoring parameters (both total and dissolved results) in the shallow groundwater since the start of this quarterly monitoring program in March 2014. The shallow groundwater results for the 2014/2015 AMR period are presented in Table 3. A summary of all historic shallow groundwater results is presented in Attachment B-1. A figure summarizing the historic groundwater exceedances is presented in Attachment B-3.

There were no exceedances of groundwater screening criteria at the locations sampled for VOCs and amenable cyanide. Metals in groundwater exceeded screening criteria as follows:

- Total and dissolved arsenic exceeded Site-specific BV, Residential and/or Nonresidential Drinking Water Criteria, and GSI Criteria at MW-17-13 in one sample
- Dissolved iron exceeded Site-specific BVs and Residential and/or Nonresidential Drinking Water (aesthetic and health based) Criteria at MW-17-13 in one sample
- Dissolved manganese at MW-2, MW-17-13, and PFW-2 in nine samples and total manganese at MW-2, MW-17-13, and PFW-2 in six samples exceeded Site-specific BVs and Residential and/or Nonresidential Aesthetic Drinking Water Criteria

There were no exceedances of Residential or Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria.

CRA completed a reduced data validation of the analytical results and found no significant issues. Copies of the data validation memos and the laboratory analytical report are presented in Attachment C.

3.2 Deep Groundwater Monitoring Results

Figure 4 presents a summary of the groundwater results for all constituents that exceeded criteria per the screening process described above in Section 2.0 (both total and dissolved results) in the deep groundwater since the start of this quarterly monitoring program in March 2014. The deep groundwater results for the 2014/2015 AMR period are presented in Table 4.



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A summary of all historic deep groundwater results is presented in Attachment B-2. A figure summarizing the historic groundwater exceedances is presented in Attachment B-4.

There were no exceedances of groundwater screening criteria at the locations sampled for VOCs and amenable cyanide. The only metal in groundwater that exceeded screening criteria was dissolved aluminum at MW-15-10 in one sample that exceeded Site-specific BV and Residential and/or Nonresidential Aesthetic Drinking Water Criteria.

There were no exceedances Residential or Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria.

CRA completed a reduced data validation of the analytical results and found no significant issues. Copies of the data validation memos and the laboratory analytical report are presented in Attachment C.

3.3 Notable Observations

Groundwater quality has remained stable across the Site since the completion of Interim Measures (IM) activities which were completed prior to 2004 to address soils identified as exceeding generic risk-based industrial criteria: industrial direct contact, particulate soil inhalation, soil volatilization to indoor air inhalation, and infinite source soil inhalation. IM activities included the excavation and off-Site disposal of impacted soils.

In addition, facility operations ceased in 1999 and Building Decommissioning Demolition activities were completed in 2001.

Total Cyanide in groundwater (49 samples across 24 locations) has only been detected once in all historic samples; PFW-4 on September 12, 2011 at a concentration of 0.0058 milligrams per liter (mg/L). In addition, Amenable Cyanide in groundwater (121 samples across 30 locations) has not been detected. All groundwater analysis for Cyanide has been completed since 2010.

Since the completion of IM's, VOCs have not been detected at concentrations exceeding screening criteria in groundwater (shallow or deep). Since 2010, approximately 123 full Method 8260B list (50 Constituents) VOC samples have been analyzed from 30 locations for a total of 6194 reported constituents, of which, there were only 10 detections above the laboratory reporting limit (between 1.0 and 10 micrograms per liter (µg/L) depending on



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constituent). All 10 detections were orders of magnitude below their most stringent screening criteria, respectively.

As a result of quarterly purging during 2014/2015, turbidities at the quarterly monitoring locations are consistently below 10 NTU.

4.0 Conclusions and Recommendations

Based on the data collected during this monitoring period the following can be concluded:

1. At deep monitoring well MW-15-10, one groundwater sample exceeded residential/nonresidential aesthetic drinking water criteria for dissolved aluminum. No historic samples at this location exceeded total or dissolved aluminum. In addition this result only marginally exceeds the residential drinking water health based criteria and is below the nonresidential drinking water health based criteria.
2. At shallow monitoring well MW-17-13, groundwater samples from the last two sampling events exceeded residential/nonresidential drinking water criteria and GSI criteria for total and/or dissolved arsenic. In addition, groundwater samples from the last two sampling events exceeded residential/nonresidential drinking water (aesthetic and health based) criteria for dissolved iron.
3. The remaining March 2015 groundwater sampling results are consistent with historic sampling results.
4. Cyanide (total and amenable) has only been detected once in shallow or deep groundwater on September 12, 2011 at PFW-4 and was significantly below screening criteria.
5. VOCs have not been detected at concentrations exceeding screening criteria in on-Site groundwater (shallow or deep) since prior to completion of interim measures activities in 2004. Furthermore, of the detections since 2004, no VOCs have been detected above their respective laboratory reporting limit (between 1.0 and 10 µg/L depending on constituent) since September 2011.
6. Shallow groundwater sample turbidity readings at the quarterly monitoring locations are consistently below 10NTU.



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Based on the above conclusions, CRA recommends the following modification to the Monitoring Plan:

1. Add arsenic and iron analysis to the quarterly monitoring parameters at location MW-17-13.
2. Remove amenable cyanide from the monitoring program for all locations.
3. Remove VOCs from the monitoring program for all locations.
4. Reduce the monitoring well purging frequency from quarterly purging to annual purging at a minimum, which would be completed in advance of the comprehensive annual monitoring event (Q1) or in advance of a quarterly monitoring event if the quarterly sampling indicates turbidity becomes a concern.

The recommended modifications to the Monitoring Plan will be incorporated into the next sampling event, pending MDEQ's approval. Next year's annual report will be submitted following the completion of the Q1-2016 monitoring event

Should you have any questions on the above, please do not hesitate to contact David Favero with RACER or the undersigned.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Michael R. Tomka, P.E.

RC/kf/20

Encl.

cc: David Favero/Grant Trigger, RACER Trust (PDF)
John McCabe/Joe Rogers, MDEQ (PDF)

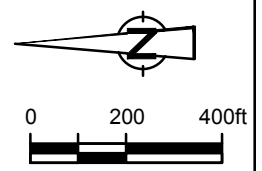
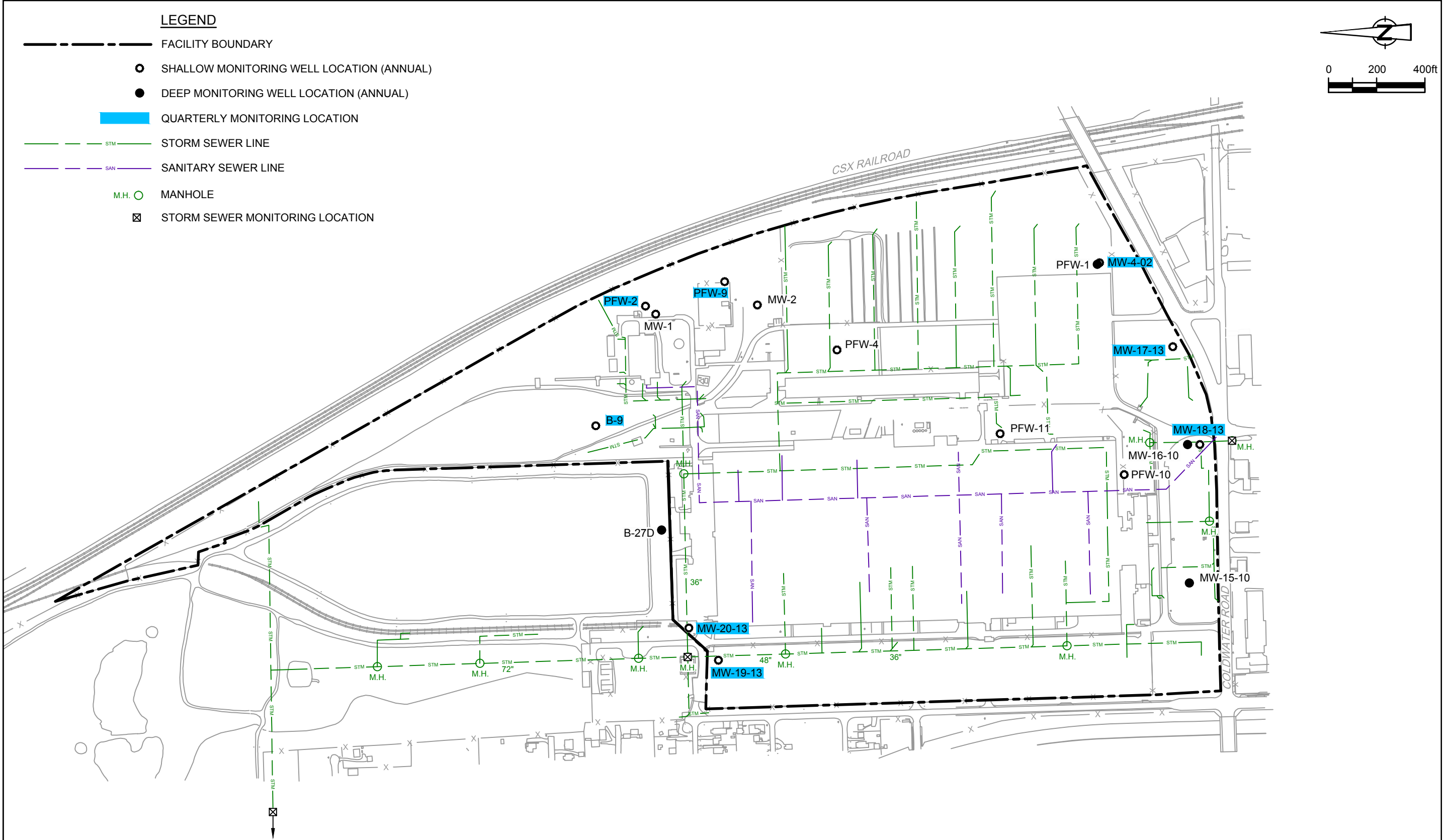
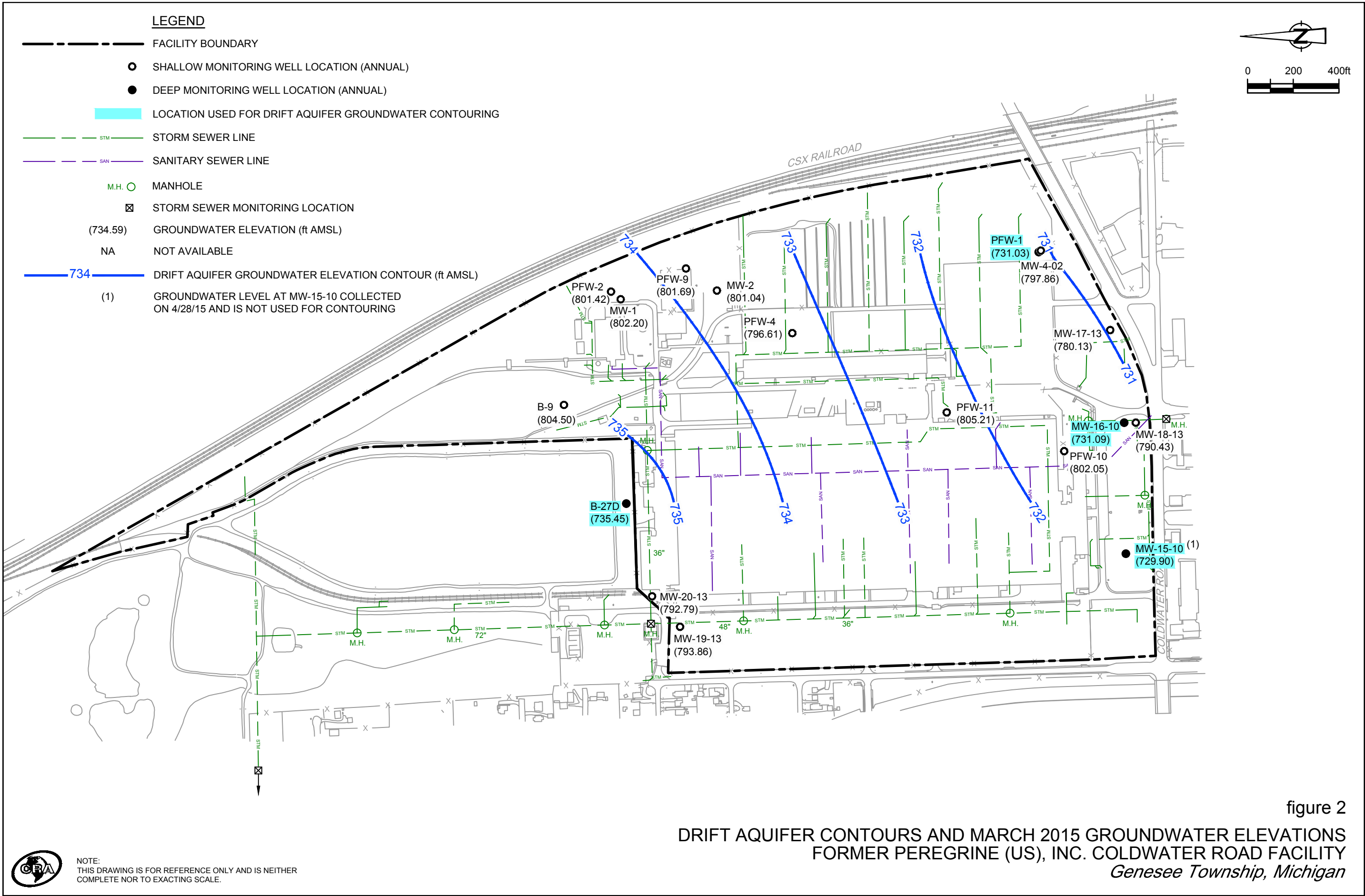


figure 1
GROUNDWATER MONITORING LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



NOTE:
THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER
COMPLETE NOR TO EXACTING SCALE.



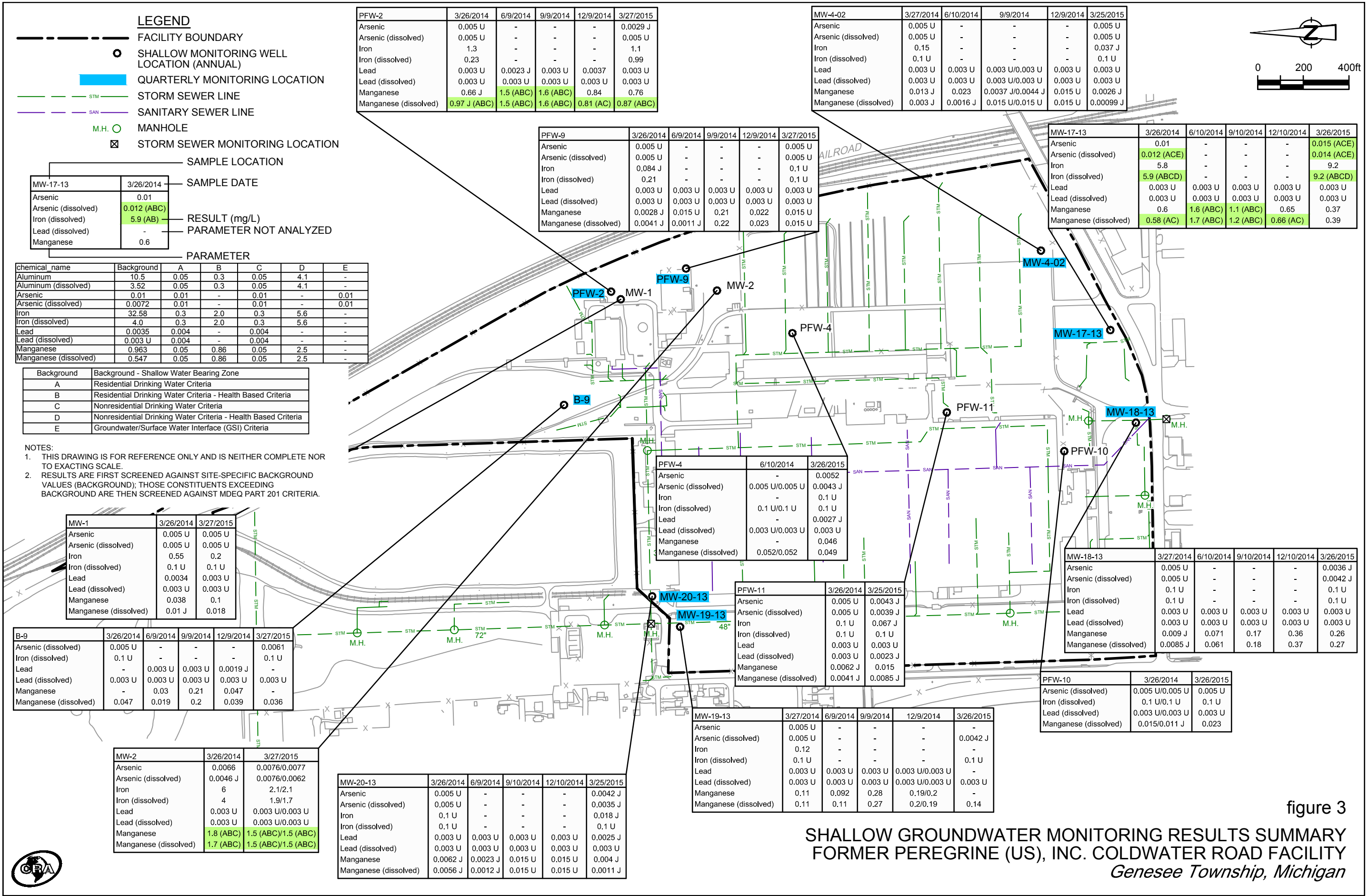


figure 3

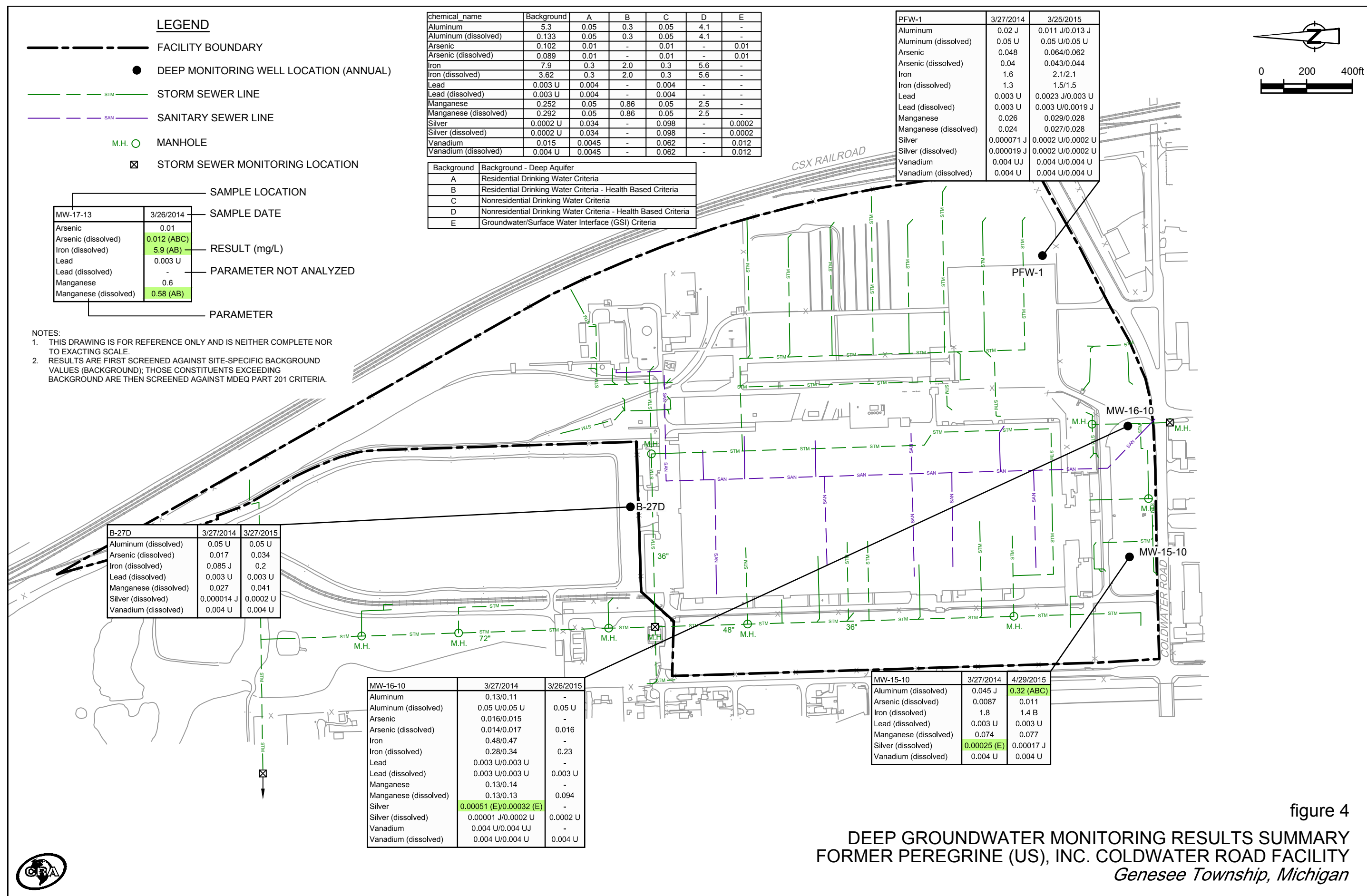


TABLE 1

**2014/2015 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Monitoring Well</i>	<i>Screened Interval (ft bgs)</i>	<i>Ground Surface Elevation ⁽¹⁾ (ft AMSL)</i>	<i>Top of Casing Elevation ⁽¹⁾ (ft AMSL)</i>	<i>Reference Elevation (Top of Riser) (ft AMSL)</i>	<i>Annual Monitoring Event Sampling Parameters (Q1-2015)</i>	<i>Quarterly Monitoring Event Sampling Parameters (Q2-2014, Q3-2014, Q4-2014)</i>
<u>Shallow Water Bearing Unit</u>						
B-9	19 to 24	806.77	808.32	807.67	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
MW-1	15 to 25	806.29	806.35	806.08	VOCs, Metals, Cyanide	--
MW-2	15 to 25	807.22	806.90	806.90	VOCs, Metals, Cyanide	--
MW-4-02	10 to 15	807.93	810.77	810.76	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
PFW-2	11.9 to 14.4	807.04	809.94	809.43	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
PFW-4	8.4 to 13.4	808.17	807.72	807.72	VOCs, Metals, Cyanide	VOCs, Metals, Cyanide (1)
PFW-9	6.7 to 9.2	807.41	810.49	810.05	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
PFW-10	14.2 to 16.7	808.85	808.48	808.48	VOCs, Metals, Cyanide	--
PFW-11	8.1 to 10.6	809.63	809.40	809.40	VOCs, Metals, Cyanide	--
MW-17-13	13 to 18	793.08	797.11	796.46	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
MW-18-13	2 to 8	792.91	796.42	795.86	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
MW-19-13	15 to 20	808.09	808.14	807.85	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
MW-20-13	15 to 20	807.34	810.81	810.28	VOCs, Metals, Cyanide	Metals (Lead, Manganese)
<u>Deep Aquifer</u>						
B-27D	77 to 87	810.27	813.15	813.00	VOCs, Metals, Cyanide	--
MW-15-10	88 to 93	804.89	808.75	808.41	VOCs, Metals, Cyanide	--
MW-16-10	79 to 84	795.99	799.23	798.90	VOCs, Metals, Cyanide	--
PFW-1	81.3 to 86.3	807.83	809.78	809.77	VOCs, Metals, Cyanide	--

Notes:

(1) - PFW-4 sampling was differed from to Q1-2014 to Q2-2014 due to inaccessibility

Metals - Dissolved Metals (Total Metals also if NTU is less than 10)

Cyanide - Amenable cyanide

TABLE 2

SUMMARY OF WATER ELEVATION AND TURBIDITY READINGS
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Monitoring Well	Q2 2014		Q3 2014		Q4 2014		Q1 2015	
	Turbidity (NTU)	Groundwater Elevation (ft AMSL)	Turbidity (NTU)	Groundwater Elevation (ft AMSL)	Turbidity (NTU)	Groundwater Elevation (ft AMSL)	Turbidity (NTU)	Groundwater Elevation (ft AMSL)
<u>Shallow Water Bearing Unit</u>								
B-9	8.85	801.90	8.54	800.41	4.18	805.30	13.3	804.50
MW-1	--	--	--	--	--	--	3.82	802.20
MW-2	--	--	--	--	--	--	5.9	801.04
MW-4-02	2.34	799.93	2.1	798.75	1.16	797.59	1.72	797.86
PFW-2	3.84	801.74	3.47	801.17	3.09	802.30	2.53	801.42
PFW-4	21.2	802.88	--	--	--	--	1.67	796.61
PFW-9	1.63	802.32	0.86	801.52	1.14	802.58	1.73	801.69
PFW-10	--	--	--	--	--	--	10.6	802.05
PFW-11	--	--	--	--	--	--	2.26	805.21
MW-17-13	7.8	782.37	5.64	780.71	5.97	780.41	1.52	780.13
MW-18-13	2.4	790.14	1.14	789.74	0.36	789.88	0.58	790.43
MW-19-13	7.66	796.43	8.98	795.28	4.47	794.81	20.1	793.86
MW-20-13	3.43	795.02	0.7	793.69	1.09	793.58	2.47	792.79
<u>Deep Aquifer</u>								
B-27D	--	--	--	--	--	--	41.1	735.45
MW-15-10	--	--	--	--	--	--	131	729.90 (1)
MW-16-10	--	--	--	--	--	--	12.6	731.09
PFW-1	--	--	--	--	--	--	6.61	731.03

Notes:

-- Not included in monitoring event

(1) - Water elevation recorded following the Q1-2015 monitoring on 4/29/15

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow B-9 GW-12636-060914-SSH-1420 6/9/2014
Shallow B-9 GW-12636-090914-SSH-1428 9/9/2014
Shallow B-9 GW-120914-12636-SSH-1439 12/9/2014
Shallow B-9 GW-12636-032715-SSH-15014 3/27/2015

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h			
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e						
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.0016 J
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U
Metals												
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.00073 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.0061
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.01 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.0005 J
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.00089 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.0019 J
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.03	0.21	0.047
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.019	0.2	0.039
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.004 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U
General Chemistry												
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

		Shallow_or_Deep:		Shallow		Shallow		Shallow		Shallow	
		Sample Location:		MW-1		MW-2		MW-2		MW-4-02	
		Sample ID:		GW-12636-032715-SSH-15017		GW-12636-032715-SSH-15019		GW-12636-032715-SSH-15020		GW-12636-061014-SSH-1428	
		Sample Date:		3/27/2015		3/27/2015		3/27/2015		6/10/2014	
		Sample Depth:		-		-		(Duplicate)		-	
				Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water		Residential Groundwater Volatilization to Indoor Air Inhalation	
				Health Criteria		Health Criteria		Volatilization to Indoor Air Inhalation		Volatilization to Indoor Air Inhalation	
		Background Concentrations - Perched Aquifer		Aesthetic Criteria		Aesthetic Criteria		Interface Criteria		Interface Criteria	
		a		b		c		f		g	
		Units		b		c		f		g	
				b		c		f		g	
				b		c		f		g	
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				b		c		f		g	
				b		c		f		g	
				b		c		f		g	

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-4-02 GW-12636-090914-SSH-1431 9/9/2014 -
Shallow MW-4-02 GW-12636-090914-SSH-1432 9/9/2014 (Duplicate)
Shallow MW-4-02 GW-120914-12636-SSH-1440 12/9/2014 -
Shallow MW-4-02 GW-12636-032515-SSH-15003 3/25/2015 -

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h				
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e							
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	-	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	0.002 U
Metals													
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-	0.023 J
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	-	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-	0.077 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	0.077 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	0.00035 J
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	0.0004 J
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-	0.0016 J
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	0.0014 J
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-	0.002 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	0.002 U
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-	0.037 J
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.0037 J	0.0044 J	0.015 U	0.0026 J
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.015 U	0.015 U	0.015 U	0.00099 J
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	-	0.0025 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	-	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-	0.02 U
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	-	0.02 U
General Chemistry													
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	-	0.0050 U

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
MW-17-13
GW-12636-061014-SSH-1429
6/10/2014
-

Shallow
MW-17-13
GW-12636-091014-SSH-1435
9/10/2014
-

Shallow
MW-17-13
GW-121014-12636-SSH-1444
12/10/2014
-

Shallow
MW-17-13
GW-12636-032615-SSH-15009
3/26/2015
-

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h			
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e						
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U
Metals												
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	0.011 J
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.00024 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.015 ^{est}
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.014 ^{est}
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	0.16
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.16
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00018 J
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	0.0011 J
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.00089 J
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	0.002 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.002 U
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	9.2
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	9.2 ^{est}
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	1.6 ^{est}	1.1 ^{est}	0.37
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	1.7 ^{est}	1.2 ^{est}	0.39
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	0.0017 J
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.002 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	0.02 U
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U
General Chemistry												
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U
Notes:												
J - Estimated concentration.												
U - Not detected at the associated reporting limit.												
UJ - Not detected; associated reporting limit is estimated.												
-- Not analyzed.												

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-18-13 GW-12636-061014-SSH-1430 6/10/2014
Shallow MW-18-13 GW-12636-091014-SSH-1436 9/10/2014
Shallow MW-18-13 GW-121014-12636-SSH-1445 12/10/2014
Shallow MW-18-13 GW-12636-032615-SSH-15007 3/26/2015

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h			
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e						
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U
Metals												
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.0036 J
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.0042 J
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	0.17
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.18
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00032 J
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00024 J
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	0.002 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.002 U
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.071	0.17	0.26
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.061	0.18	0.27
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	0.0017 J
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.0025 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	0.02 U
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U
General Chemistry												
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-19-13 GW-12636-060914-SSH-1424 6/9/2014
Shallow MW-19-13 GW-12636-090914-SSH-1433 9/9/2014
Shallow MW-19-13 GW-120914-12636-SSH-1441 12/9/2014
Shallow MW-19-13 GW-120914-12636-SSH-1442 12/9/2014

(Duplicate)													
Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h				
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e							
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	-	-
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	-	-
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	-	-
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	-	-
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	-	-
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	-	-
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	-	-
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	-	-
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	-	-
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	-	-
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	-	-
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	-	-
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	-	-
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	-
Metals													
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.092	0.28	0.19	0.2
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.11	0.27	0.2	0.19
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	-	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	-	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	-	-
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	-	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	-	-

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-19-13 GW-12636-032615-SSH-15012 3/26/2015
Shallow MW-20-13 GW-12636-060914-SSH-1423 6/9/2014
Shallow MW-20-13 GW-12636-091014-SSH-1434 9/10/2014
Shallow MW-20-13 GW-121014-12636-SSH-1443 12/10/2014

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h				
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e							
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	-	-	-
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	-	-	-
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	-	-	-
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	-	-	-
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	-	-	-
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	-	-	-
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	-	-	-
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	-	-	-
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	-	-	-
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	-	-	-
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	-	-	-
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	-	-	-
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	-	-	-
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	-	-	-
Metals													
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00024 J	-	-	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.0042 J	-	-	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.12	-	-	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-	-	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U	-	-	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	-	-	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.002 U	-	-	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	0.1 U	-	-	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	-	0.0023 J	0.015 U	0.015 U
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.14	0.0012 J	0.015 U	0.015 U
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-	-	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.013 J	-	-	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-	-	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-	-	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	0.001 U	-	-	-
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	0.004 U	-	-	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	0.016 J	-	-	-
General Chemistry													
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	0.0050 U	-	-	-

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-20-13
GW-12636-032515-SSH-15002 3/25/2015 -
Shallow PFW-2
GW-12636-060914-SSH-1421 6/9/2014 -
Shallow PFW-2
GW-12636-090914-SSH-1429 9/9/2014 -
Shallow PFW-2
GW-120914-12636-SSH-1437 12/9/2014 -

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h				
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e							
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	-	-	-
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	-	-	-
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	-	-	-
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	-	-	-
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	-	-	-
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	-	-	-
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	-	-	-
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	-	-	-
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	-	-	-
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	-	-	-
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	-	-	-
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	-	-	-
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	-	-	-
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	-	-	-
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	-	-	-
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	-	-	-
Metals													
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.011 J	-	-	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	-	-	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	-	-	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0042 J	-	-	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.0035 J	-	-	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.13	-	-	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.12	-	-	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.00014 J	-	-	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-	-	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.0021 J	-	-	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.0016 J	-	-	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.007 U	-	-	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	-	-	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.002 U	-	-	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.00082 J	-	-	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	0.018 J	-	-	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	0.1 U	-	-	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.0025 J	-	-	-
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	-	-	-
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.004 J	-	-	-
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.0011 J	-	-	-
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-	-	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.00093 J	-	-	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.0017 J	-	-	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-	-	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-	-	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-	-	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-	-	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	-	-	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	0.001 U	-	-	-
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	0.004 U	-	-	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	0.004 U	-	-	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	0.02 U	-	-	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	0.02 U	-	-	-
General Chemistry													
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	0.0050 U	-	-	-

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

0.0023 J	0.003 U	0.0037
0.003 U	0.003 U	0.003 U
1.5 ND	1.6 ND	0.84
1.5 ND	1.6 ND	0.81 ND

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep: Sample Location: Sample ID: Sample Date: Sample Depth:		Shallow PFW-2 GW-12636-032715-SSH-15016 3/27/2015 -		Shallow PFW-4 GW-12636-061014-SSH-1425 6/10/2014 -		Shallow PFW-4 GW-12636-061014-SSH-1426 6/10/2014 -		Shallow PFW-4 GW-12636-032615-SSH-15006 3/26/2015 -		(Duplicate)	
		Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h			
Parameters:	Units	Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e						
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U
Metals											
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.018 J	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00055 J	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00087 J	0.00017 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0029 J	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.005 U	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.047 J	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.047 J	0.024 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.00019 J	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.007 U	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.00061 J	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.002 U	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.002 U	0.0049 U
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	1.1	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	0.99	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	-
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.0027 J
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.76	-
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.87 ²⁰	0.046
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.02 U	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.02 U	0.0059 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	0.0037 J	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	0.0027 J	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	0.02 U	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	0.02 U	0.0058 J
General Chemistry											
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	0.0050 U	0.0050 U
Notes: J - Estimated concentration. U - Not detected at the associated reporting limit. UJ - Not detected; associated reporting limit is estimated. -- Not analyzed.											

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
PFW-9
GW-12636-060914-SSH-1422 6/9/2014
Shallow
PFW-9
GW-12636-090914-SSH-1430 9/9/2014
Shallow
PFW-9
GW-120914-12636-SSH-1438 12/9/2014
Shallow
PFW-9
GW-12636-032715-SSH-15018 3/27/2015

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water/ Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h			
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e						
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.0017 J
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U
Metals												
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.00023 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.00016 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	0.036 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.036 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	0.00081 J
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.0011 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.015 U	0.21	0.015 U
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.0011 J	0.22	0.015 U
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.0008 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	0.0031 J
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.0055
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	0.02 U
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U
General Chemistry												
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

TABLE 3

2014/2015 SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
PFW-10
GW-12636-032615-SSH-15011
3/26/2015
Shallow
PFW-11
GW-12636-032515-SSH-15001
3/25/2015

Parameters:	Units	Background Concentrations - Perched Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater	Non-Residential Groundwater		
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e		Volatilization to Indoor Air Inhalation g	Volatilization to Indoor Air Inhalation h		
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U
Metals											
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	0.059
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00033 J	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	0.0043 J
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.005 U	0.0039 J
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	0.044 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.034 J	0.042 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.00045 J	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	0.0012 J
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U	0.0011 J
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	0.00098 J
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	0.0019 J
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.0069	0.0017 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	0.067 J
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	0.1 U	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	-	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.0023 J
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	-	0.015
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.023	0.0085 J
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.0037 J	0.0023 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	0.00018 J
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.00024 J
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	0.004 U	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	0.013 J
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	0.032	0.02 U
General Chemistry											
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	0.0050 U	0.0050 U

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

2014/2015 DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:		Deep		Deep		Deep		Deep		Deep	
Sample Location:		B-27D		MW-15-10		MW-16-10		PFW-1		PFW-1	
Sample ID:		GW-12636-032715-SSH-15013		W-12636-042915-SSH-1521		GW-12636-032615-SSH-15008		GW-12636-032515-SSH-15004		GW-12636-032515-SSH-15005	
Sample Date:		3/27/2015		4/29/2015		3/26/2015		3/25/2015		3/25/2015	
Sample Depth:		-		-		-		-		-	
										(Duplicate)	
		Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water		Residential Groundwater Volatilization to Indoor Air Inhalation		Non-Residential Groundwater Volatilization to Indoor Air Inhalation	
		Background Concentrations - Drift Aquifer a		Health Based Criteria c		Health Based Criteria e		Aesthetic Criteria f		Aesthetic Criteria g	
Parameters:		Units		Criteria d		Criteria e		Criteria f		Criteria g	
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U
Metals											
Aluminum	mg/L	5.3	0.05	0.3	0.05	4.1	-	-	-	-	0.011 J
Aluminum (dissolved)	mg/L	0.133	0.05	0.3	0.05	4.1	-	-	-	0.32 ^{kd}	0.013 J
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00057 J	0.002 U
Arsenic	mg/L	0.102	0.01	-	0.01	-	0.01	-	-	-	0.062
Arsenic (dissolved)	mg/L	0.089	0.01	-	0.01	-	0.01	-	-	0.034	0.043
Barium	mg/L	0.47	2	-	2	-	-	-	-	-	0.15
Barium (dissolved)	mg/L	0.553	2	-	2	-	-	-	-	0.2	0.14
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.12 B	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.00027 J
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	0.00032 J
Chromium	mg/L	0.007	0.1	-	0.1	-	-	-	-	0.0002 J	0.00044 J
Chromium (dissolved)	mg/L	0.011	0.1	-	0.1	-	-	-	-	-	0.00071 J
Cobalt	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.005 U	0.00081 J
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	0.007 U
Copper	mg/L	0.015	1	-	1	-	-	-	-	0.007 U	0.007 U
Copper (dissolved)	mg/L	0.04	1	-	1	-	-	-	-	-	0.002 U
Iron	mg/L	7.9	0.3	2.0	0.3	5.6	-	-	-	0.002 U	0.002 U
Iron (dissolved)	mg/L	3.62	0.3	2.0	0.3	5.6	-	-	-	-	2.1
Lead	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.2	0.023 J
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	1.4 B	1.5
Manganese	mg/L	0.252	0.05	0.86	0.05	2.5	-	-	-	0.23	0.003 U
Manganese (dissolved)	mg/L	0.292	0.05	0.86	0.05	2.5	-	-	-	0.003 U	0.003 U
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	0.029
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.041	0.027
Nickel	mg/L	0.02	0.1	-	0.1	-	-	-	-	0.077	0.0002 U
Nickel (dissolved)	mg/L	0.022	0.1	-	0.1	-	-	-	-	-	0.0002 U
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.0002 U	0.02 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.02 U	0.02 U
Silver	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0049 J	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	0.0005 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.005 U	0.0002 U
Thallium (dissolved)	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.00017 J	0.0002 U
Vanadium	mg/L	0.015	0.0045	-	0.062	-	0.027	-	-	-	0.001 U
Vanadium (dissolved)	mg/L	0.004	0.0045	-	0.062	-	0.027	-	-	0.00021 J	0.00026 J
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	0.00027 J	0.004 U
Zinc (dissolved)	mg/L	0.0521	2.4	-	5	-	-	-	-	0.004 U	0.004 U

Notes:

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

TABLE 5

**2015/2016 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN**

<i>Monitoring Well</i>	<i>Annual Monitoring Event Sampling Parameters (Q1-2016)</i>	<i>Quarterly Monitoring Event Sampling Parameters (Q2-2015, Q3-2015, Q4-2015)</i>
<u>Shallow Water Bearing Unit</u>		
B-9	Metals	Metals (Lead, Manganese)
MW-1	Metals	--
MW-2	Metals	--
MW-4-02	Metals	Metals (Lead, Manganese)
PFW-2	Metals	Metals (Lead, Manganese)
PFW-4	Metals	--
PFW-9	Metals	Metals (Lead, Manganese)
PFW-10	Metals	--
PFW-11	Metals	--
		Metals (Arsenic, Iron, Lead, Manganese)
MW-17-13	Metals	
MW-18-13	Metals	Metals (Lead, Manganese)
MW-19-13	Metals	Metals (Lead, Manganese)
MW-20-13	Metals	Metals (Lead, Manganese)
<u>Deep Aquifer</u>		
B-27D	Metals	--
MW-15-10	Metals	--
MW-16-10	Metals	--
PFW-1	Metals	--

Notes:

Metals - Dissolved Metals (Total Metals also if NTU is less than 10)

Attachment A

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

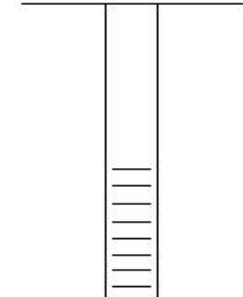
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: B-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 30.9
 Measured Well Depth (ft): 25.33 (Sept, 2014)
 Depth of Sediment (ft): 5.57

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 5.77



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:25	100	5.77									
9:55	100	9.05	-3.28	11.51	2.35	14.1	1.78	6.73	84	3	1.0
10:00	75	9.38	-3.61	11.61	2.36	11.7	1.66	6.74	84	3.375	1.1
10:05	75	9.96	-4.19	11.42	2.35	9.28	1.63	6.74	84	3.75	1.2
10:10	75	10.29	-4.52	11.61	2.36	8.85	1.6	6.74	84	4.125	1.3
10:11	Sample										
	Sample ID:	GW-12636-060914-SSH-1420									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

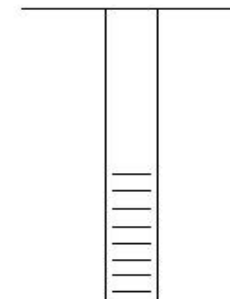
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-4-02
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 17.73
 Measured Well Depth (ft): 17.34 (Sept, 2014)
 Depth of Sediment (ft): 0.39

Saturated Screen Length (ft): 4.61
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 2.8
 Initial Depth to Water (ft): 10.83



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:40	100	10.83									
10:10	100	12.92	-2.09	13.32	1.239	3.75	7.03	7.05	58	3	1.1
10:15	100	13.14	-2.31	13.32	1.228	2.9	7	7.05	60	3.5	1.2
10:20	100	13.23	-2.4	13.34	1.236	2.42	7.05	7.05	62	4	1.4
10:25	100	13.35	-2.52	13.37	1.239	2.34	7.06	7.06	63	4.5	1.6
10:26											
	Sample ID:	GW-12636-061014-SSH-1428									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

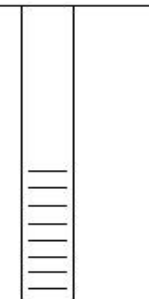
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-17-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 23.18
 Measured Well Depth (ft): 21.75 (Sept, 2014)
 Depth of Sediment (ft): 1.43

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 14.09



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:45	100	14.09									
11:15	100	14.11	-0.02	12.14	2.16	10.5	0.29	6.89	-173	3	1.0
11:20	100	14.13	-0.04	12.16	2.16	10.1	0.28	6.89	-174	3.5	1.1
11:25	100	14.14	-0.05	12.12	2.16	9.03	0.25	6.87	-170	4	1.3
11:30	100	14.15	-0.06	12.15	2.16	7.8	0.24	6.87	-168	4.5	1.5
11:31	Sample										
	Sample ID:	GW-12636-061014-SSH-1429									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

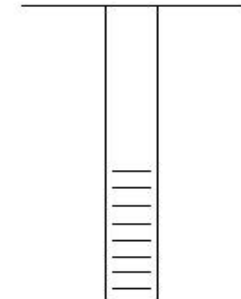
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-18-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 11.51
 Measured Well Depth (ft): 11.46 (Sept, 2014)
 Depth of Sediment (ft): 0.05

Saturated Screen Length (ft): 5.74
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.5
 Initial Depth to Water (ft): 5.72



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
12:05	100	5.72									
12:35	100	6.09	-0.37	14.99	1.84	2.5	1.26	7.15	-50	3	0.8
12:40	100	6.1	-0.38	15.2	1.74	1.62	1.08	7.15	-49	3.5	1.0
12:45	Battery on pump died, attached backup battery.										
12:50	100	6.02	-0.3	15.19	1.84	3.93	0.93	7.12	-51	4	1.1
12:55	100	6.07	-0.35	15.15	1.84	2.97	0.92	7.12	-53	4.5	1.3
13:00	100	6.09	-0.37	15.18	1.8	2.4	0.91	7.12	-52	5	1.4
13:01	Sample										
	Sample ID:	GW-12636-061014-SSH-1430									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

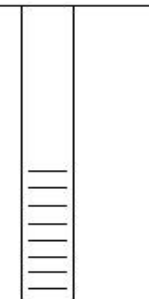
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-19-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 19.75
 Measured Well Depth (ft): 20.24 (Sept, 2014)
 Depth of Sediment (ft): -0.49

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 11.42



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:50	100	11.42									
14:20	100	11.73	-0.31	13.2	2.18	9.93	1.54	7.3	25	3	1.0
14:25	100	11.73	-0.31	13.26	2.22	9.31	1.41	7.25	33	3.5	1.1
14:30	100	11.73	-0.31	13.27	2.26	8.22	1.36	7.23	38	4	1.3
14:35	100	11.73	-0.31	13.33	2.23	7.77	1.34	7.22	40	4.5	1.5
14:40	100	11.73	-0.31	13.41	2.24	7.66	1.3	7.22	41	5	1.6
14:41	Sample										
Sample ID:	GW-12636-060914-SSH-1424										

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

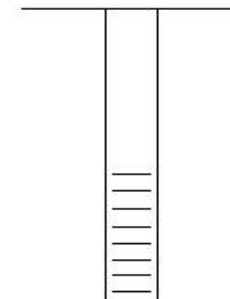
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-20-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 22.94
 Measured Well Depth (ft): 23.14 (Sept, 2014)
 Depth of Sediment (ft): -0.2

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 15.26



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
12:35	100	15.26									
13:05	100	15.66	-0.4	12.48	1.059	4.4	6.94	7.27	55	3	1.0
13:10	100	15.68	-0.42	12.4	1.075	4.66	6.88	7.26	56	3.5	1.1
13:15	100	15.69	-0.43	12.54	1.083	4.26	6.87	7.26	57	4	1.3
13:20	100	15.7	-0.44	12.4	1.085	3.43	6.85	7.26	57	4.5	1.5
13:21	Sample										
	Sample ID:	GW-12636-060914-SSH-1423									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

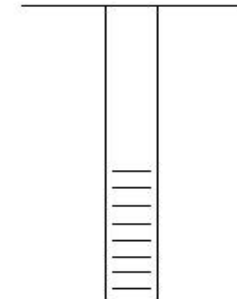
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-2
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): 16.83 (Sept, 2014)
 Depth of Sediment (ft): 0.07

Saturated Screen Length (ft): 2.43
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 7.69



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:30	100	7.69									
10:50	75	8.76	-1.07								
11:00	75	8.78	-1.09	12.23	0.646	5.24	0.41	7.29	-116	2.75	1.8
11:05	75	8.79	-1.1	11.59	0.659	5.48	0.41	7.27	-121	3.125	2.1
11:10	75	8.8	-1.11	11.69	0.658	5.16	0.41	7.26	-123	3.5	2.3
11:15	75	8.81	-1.12	11.76	0.659	3.94	0.4	7.27	-123	3.875	2.6
11:16	Sample										
	Sample ID:	GW-12636-060914-SSH-1421									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

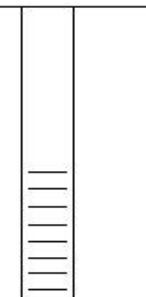
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-4
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 13.4
 Measured Well Depth (ft): N/A
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: N/A
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 4.84



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
7:35	100	4.84									
8:05	75	7.91	-3.07	11.34	0.664	73.2	0.58	6.67	31	3	1.0
8:10	75	8.49	-3.65	11.32	0.712	59.5	0.89	6.89	-7	3.375	1.1
8:15	75	8.61	-3.77	11.39	0.763	53.8	1.07	6.98	-14	3.75	1.2
8:20	75	8.72	-3.88	11.36	0.797	42.2	1.12	7.1	-24	4.125	1.3
8:25	75	8.81	-3.97	11.45	0.815	39.3	1.05	7.21	-31	4.5	1.5
8:30	75	8.92	-4.08	11.42	0.83	31.3	0.96	7.27	-36	4.875	1.6
8:35	75	9.01	-4.17	11.5	0.861	27.7	1.83	7.35	-45	5.25	1.7
8:40	75	9.1	-4.26	1.56	0.872	25.3	0.78	7.42	-51	5.625	1.8
8:45	75	9.2	-4.36	11.5	0.896	21.7	0.72	7.47	-58	6	1.9
8:50	75	9.29	-4.45	11.48	0.898	22	0.7	7.49	-61	6.375	2.1
8:55	75	9.38	-4.54	11.52	0.897	21.2	0.69	7.52	-62	6.75	2.2
8:56	Sample		Sample ID:	GW-12636-061014-SSH-1425			Sample ID:	GW-12636-061014-SSH-1426 (Dup, MS/MSD)			

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

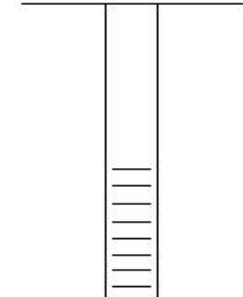
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 6/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 11.4
 Measured Well Depth (ft): 11.28 (Sept, 2014)
 Depth of Sediment (ft): 0.12

Saturated Screen Length (ft): 3.55
 Depth to Pump Intake (ft)⁽¹⁾: 10
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 2.2
 Initial Depth to Water (ft): 7.73



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
11:30	100	7.73									
12:00	100	7.89	-0.16	16.44	0.425	1.74	1.88	7.32	26	3	1.4
12:05	100	7.89	-0.16	16.45	0.424	2.71	1.76	7.3	27	3.5	1.6
12:10	100	7.9	-0.17	16.55	0.424	1.5	1.68	7.29	28	4	1.8
12:15	100	7.9	-0.17	16.53	0.424	1.63	1.63	7.3	29	4.5	2.1
12:16	Sample										
	Sample ID:	GW-12636-060914-SSH-1422									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

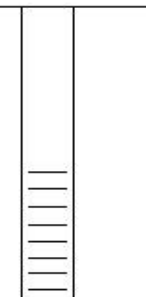
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: B-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 30.9
 Measured Well Depth (ft): 25.33
 Depth of Sediment (ft): 5.57

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 23.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 7.26



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:25	100	7.26									
9:05	100	12.15	-4.89	13.24	2.77	9.78	1.2	6.82	83	4	1.3
9:10	100	12.39	-5.13	13.27	2.77	9.27	1.1	6.82	83	4.5	1.5
9:15	100	12.52	-5.26	13.26	2.77	8.52	1.08	6.83	83	5	1.6
9:20	100	12.63	-5.37	13.26	2.78	8.54	1.06	6.84	84	5.5	1.8
9:21	Sample										
	Sample ID:	GW-12636-090914-SSH-1428									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

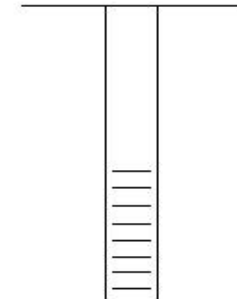
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-4-02
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 17.73
 Measured Well Depth (ft): 17.34
 Depth of Sediment (ft): 0.39

Saturated Screen Length (ft): 4.61
 Depth to Pump Intake (ft)⁽¹⁾: 16.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 2.8
 Initial Depth to Water (ft): 12.01



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
12:10	100	12.01									
12:40	100	13.41	-1.4	18.53	1.281	2.19	5.88	7.41	105	3	1.1
12:45	100	13.6	-1.59	18.02	1.33	2.05	4.81	7.4	106	3.5	1.2
12:50	100	13.79	-1.78	18.2	1.318	1.94	4.81	7.41	106	4	1.4
12:55	100	13.88	-1.87	18.24	1.311	2.12	4.82	7.4	107	4.5	1.6
13:00	100	13.96	-1.95	18.26	1.31	2.1	4.86	7.41	107	5	1.8
13:01											
	Sample ID:	GW-12636-090914-SSH-1431									
13:04											
	Sample ID:	GW-12636-090914-SSH-1432									
		Duplicate									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

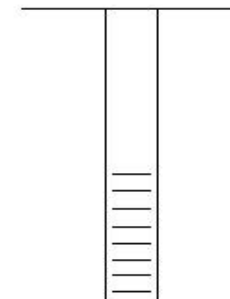
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-17-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 23.18
 Measured Well Depth (ft): 21.75
 Depth of Sediment (ft): 1.43

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 21
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 15.75



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:30	100	15.75									
10:00	100	15.81	-0.06	14.16	1.79	10	0.19	6.92	93	3	1.0
10:05	100	15.81	-0.06	14.14	1.78	8.43	0.15	6.93	93	3.5	1.1
10:10	100	15.81	-0.06	14.24	1.78	5.88	0.16	6.93	93	4	1.3
10:15	100	15.81	-0.06	14.28	1.77	5.64	0.15	6.93	93	4.5	1.5
10:16	Sample										
	Sample ID:	GW-12636-091014-SSH-1435									
		MS/MSD									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

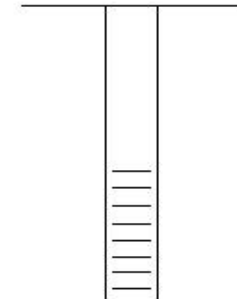
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-18-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 11.51
 Measured Well Depth (ft): 11.46
 Depth of Sediment (ft): 0.05

Saturated Screen Length (ft): 5.34
 Depth to Pump Intake (ft)⁽¹⁾: 10.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.3
 Initial Depth to Water (ft): 6.12



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:45	100	6.12									
11:15	100	6.42	-0.3	19.1	1.9	1	1	7.23	109	3	0.9
11:20	100	6.42	-0.3	19.11	1.9	0.86	0.83	7.22	109	3.5	1.1
11:25	100	6.42	-0.3	19.09	1.91	1.15	0.8	7.23	109	4	1.2
11:30	100	6.42	-0.3	19.1	1.91	1.14	0.78	7.23	109	4.5	1.4
11:31	Sample										
	Sample ID:	GW-12636-091014-SSH-1436									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

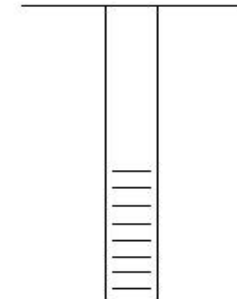
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-19-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 19.75
 Measured Well Depth (ft): 20.24
 Depth of Sediment (ft): -0.49

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 19
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 12.57



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:45	100	12.57									
14:15	100	12.74	-0.17	19.15	6.92	10.2	0.28	7.48	108	3	1.0
14:20	100	12.76	-0.19	19	6.94	9.24	0.26	7.48	107	3.5	1.1
14:25	100	12.78	-0.21	18.8	6.98	8.66	0.25	7.48	107	4	1.3
14:30	100	12.8	-0.23	18.75	6.99	8.98	0.25	7.49	107	4.5	1.5
14:31	Sample										
	Sample ID:	GW-12636-090914-SSH-1433									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

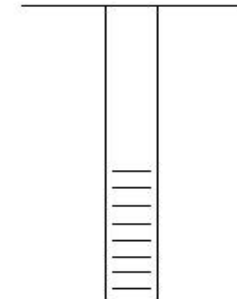
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-20-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 22.94
 Measured Well Depth (ft): 23.14
 Depth of Sediment (ft): -0.2

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 22
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 16.59



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:15	100	16.59									
8:45	100	16.89	-0.3	14.99	2.47	1.51	3.74	7.18	109	3	1.0
8:50	100	16.9	-0.31	14.98	2.47	0.63	3.74	7.23	109	3.5	1.1
8:55	100	16.9	-0.31	15.01	2.47	0.66	3.77	7.24	109	4	1.3
9:00	100	16.91	-0.32	15.03	2.46	0.7	3.79	7.26	109	4.5	1.5
9:01	Sample										
	Sample ID:	GW-12636-091014-SSH-1434									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

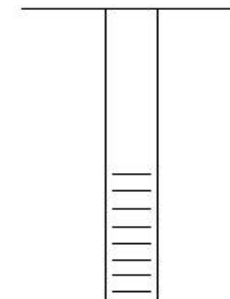
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-2
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): 16.83
 Depth of Sediment (ft): 0.07

Saturated Screen Length (ft): 2.43
 Depth to Pump Intake (ft)⁽¹⁾: 15.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 8.26



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:45	100	8.26									
10:15	100	8.93	-0.67	16.01	0.785	4.92	0.29	7.42	69	3	2.0
10:20	100	8.93	-0.67	16.14	0.784	4.38	0.28	7.44	71	3.5	2.3
10:25	100	8.93	-0.67	16.2	0.784	4.42	0.28	7.45	72	4	2.7
10:30	100	8.93	-0.67	16.26	0.785	3.47	0.3	7.46	70	4.5	3.0
10:31	Sample										
	Sample ID:	GW-12636-090914-SSH-1429									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

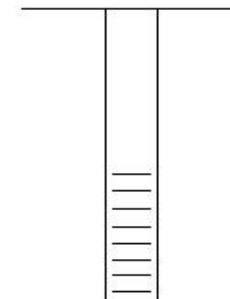
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 9/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 11.4
 Measured Well Depth (ft): 11.28
 Depth of Sediment (ft): 0.12

Saturated Screen Length (ft): 2.38
 Depth to Pump Intake (ft)⁽¹⁾: 10
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 8.53



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:50	100	8.53									
11:20	100	8.66	-0.13	20.18	0.667	0.8	0.24	7.35	84	3	2.0
11:25	100	8.66	-0.13	20.39	0.661	0.78	0.23	7.37	87	3.5	2.4
11:30	100	8.66	-0.13	20.38	0.662	0.74	0.24	7.37	87	4	2.7
11:35	100	8.66	-0.13	20.39	0.661	0.86	0.23	7.37	88	4.5	3.1
11:36	Sample										
	Sample ID:	GW-12636-090914-SSH-1430									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

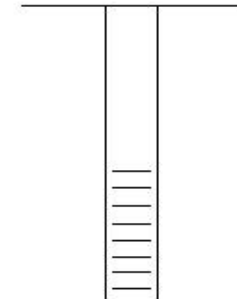
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: B-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 30.9
 Measured Well Depth (ft): 25.31
 Depth of Sediment (ft): 5.59

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 24.31
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 2.37



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:55	100	2.37									
11:25	100	6.65	-4.28	9.84	2.54	4.97	3.07	7.51	54	3	1.0
11:30	100	7.01	-4.64	9.93	2.54	5.54	2.9	7.27	55	3.5	1.1
11:35	100	7.45	-5.08	9.99	2.54	4.61	2.84	7.15	56	4	1.3
11:40	100	7.77	-5.4	10.19	2.53	4.48	2.93	7.12	57	4.5	1.5
11:45	100	8.09	-5.72	10.22	2.53	4.83	2.94	7.11	58	5	1.6
11:50	100	8.41	-6.04	10.23	2.54	4.18	2.94	7.11	58	5.5	1.8
11:51	Sample										
	Sample ID:	GW-12636-120914-SSH-1439									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

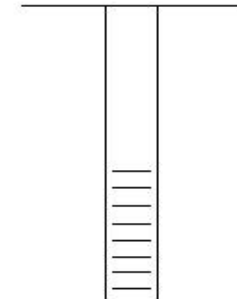
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-4-02
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 17.73
 Measured Well Depth (ft): 17.44
 Depth of Sediment (ft): 0.29

Saturated Screen Length (ft): 4.27
 Depth to Pump Intake (ft)⁽¹⁾: 16.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 2.6
 Initial Depth to Water (ft): 13.17



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
12:15	100	13.17									
12:45	100	14.23	-1.06	10.25	1.099	1.78	5.98	8.07	64	3	1.1
12:50	100	14.34	-1.17	10.31	1.096	1.73	6.15	8.03	59	3.5	1.3
12:55	100	14.47	-1.3	10.27	1.088	1.16	6.03	7.98	66	4	1.5
13:00	100	14.59	-1.42	10.22	1.089	1.27	6.01	7.97	66	4.5	1.7
13:05	100	14.7	-1.53	10.22	1.085	1.16	6.02	7.96	66	5	1.9
13:06	Sample										
	Sample ID:	GW-12636-120914-SSH-1440									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

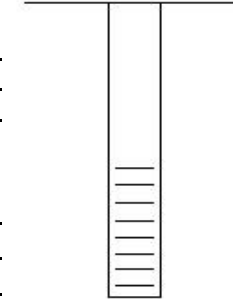
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-17-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 23.18
 Measured Well Depth (ft): 21.75
 Depth of Sediment (ft): 1.43

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 21
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 16.05



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:35	100	16.05									
10:05	100	16.11	-0.06	9.33	1.59	8.59	0.33	7.72	55	3	1.0
10:10	100	16.11	-0.06	9.3	1.58	5.58	0.28	7.63	57	3.5	1.1
10:15	100	16.11	-0.06	9.37	1.59	5.2	0.26	7.54	58	4	1.3
10:20	100	16.11	-0.06	9.3	1.59	5.97	0.25	7.51	58	4.5	1.5
10:25	100	16.11	-0.06	9.29	1.59		0.25	7.51	59	5	1.6
10:26	Sample										
	Sample ID:	GW-12636-121014-SSH-1444									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

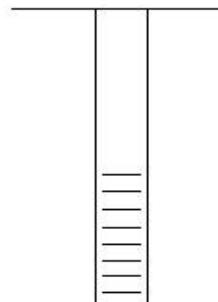
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-18-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 11.51
 Measured Well Depth (ft): 11.47
 Depth of Sediment (ft): 0.04

Saturated Screen Length (ft): 5.49
 Depth to Pump Intake (ft)⁽¹⁾: 10.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.4
 Initial Depth to Water (ft): 5.98



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:50	100	5.98									
11:20	100	6.42	-0.44	6.02	4.31	1.2	1.98	6.72	72	3	0.9
11:25	100	6.43	-0.45	6.05	4.31	1.27	1.99	6.77	72	3.5	1.0
11:30	100	6.44	-0.46	6.05	4.33	0.37	1.97	6.67	72	4	1.2
11:35	100	6.45	-0.47	6.04	4.33	0.34	1.98	6.66	72	4.5	1.3
11:40	100	6.45	-0.47	6.04	4.34	0.36	1.97	6.66	73	5	1.5
11:41	Sample										
	Sample ID:	GW-12636-121014-SSH-1445									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

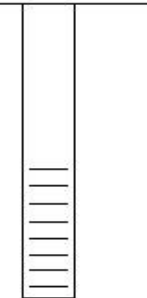
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-19-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 19.75
 Measured Well Depth (ft): 20.26
 Depth of Sediment (ft): -0.51

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 19
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 13.04



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:35	100	13.04									
14:05	100	13.28	-0.24	11.19	6.44	4.4	0.28	0.84	7.86	3	1.0
14:10	100	13.28	-0.24	11.13	6.45	4.34	0.26	0.84	7.85	3.5	1.1
14:15	100	13.3	-0.26	11.12	6.46	4.38	0.25	0.82	7.83	4	1.3
14:20	100	13.3	-0.26	11.16	6.46	4.47	0.25	0.8	7.82	4.5	1.5
14:21	Sample										
	Sample ID:	GW-12636-120914-SSH-1441									
Duplicate	Sample ID:	GW-12636-120914-SSH-1442									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

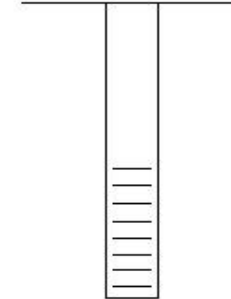
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/10/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-20-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 22.94
 Measured Well Depth (ft): 23.14
 Depth of Sediment (ft): -0.2

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 22
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 16.7



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:20	100	16.7									
8:50	100	16.97	-0.27	8.92	2.28	3.05	4.49	7.89	77	3	1.0
8:55	100	16.98	-0.28	8.89	2.29	1.68	4.51	7.87	78	3.5	1.1
9:00	100	16.98	-0.28	8.85	2.28	1.4	4.48	7.87	78	4	1.3
9:05	100	16.98	-0.28	8.83	2.28	1.09	4.49	7.86	78	4.5	1.5
9:06	Sample										
	Sample ID:	GW-12636-121014-SSH-1443									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi r^2 (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi r^2 (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

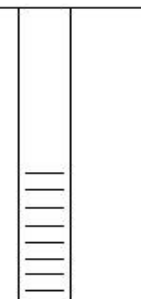
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-2
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): 16.82
 Depth of Sediment (ft): 0.08

Saturated Screen Length (ft): 2.42
 Depth to Pump Intake (ft)⁽¹⁾: 15.82
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 7.13



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:20	100	7.13									
8:50	100	8.77	-1.64	9.9	0.734	4.26	1.17	7.83	29	3	2.0
8:55	100	8.69	-1.56	9.77	0.735	4.42	1.1	7.79	32	3.5	2.3
9:00	100	8.65	-1.52	9.78	0.735	3.54	0.98	7.72	33	4	2.7
9:05	100	8.64	-1.51	9.76	0.734	3.53	0.95	7.7	32	4.5	3.0
9:10	100	8.66	-1.53	9.77	0.736	3.09	0.97	7.7	31	5	3.3
9:11	Sample										
	Sample ID:	GW-12636-120914-SSH-1437									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

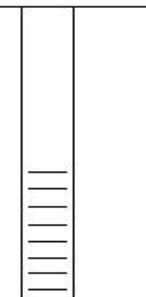
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y14

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 11.4
 Measured Well Depth (ft): 11.28
 Depth of Sediment (ft): 0.12

Saturated Screen Length (ft): 2.38
 Depth to Pump Intake (ft)⁽¹⁾: 10.28
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 7.47



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:35	100	7.47									
10:05	100	7.63	-0.16	7.27	0.573	2.16	2.37	7.51	46	3	2.0
10:10	100	7.63	-0.16	7.37	0.566	1.15	2.12	7.07	46	3.5	2.4
10:15	100	7.63	-0.16	7.37	0.563	1.04	2.03	7.02	46	4	2.7
10:20	100	7.63	-0.16	7.31	0.56	1.07	2.01	6.98	47	4.5	3.1
10:25	100	7.63	-0.16	7.35	0.559	1.15	2	6.95	47	5	3.4
10:30	100	7.63	-0.16	7.37	0.558	1.14	1.99	6.93	47	5.5	3.7
10:31	Sample										
	Sample ID:	GW-12636-120914-SSH-1438									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

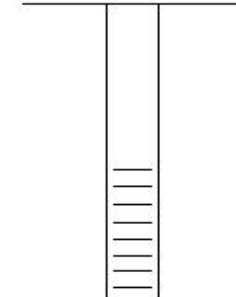
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/25/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-11
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 10.6
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 2.5
 Depth to Pump Intake (ft)⁽¹⁾: 9.6
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 4.19



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
11:40	100	4.19									
12:10	<50	6.73	-2.54	4.37	2.27	2.6	2.28	7.47	28	3	1.9
12:15	<50	6.98	-2.79	4.41	2.28	3.38	2.13	7.56	28	3.25	2.1
12:20	<50	7.25	-3.06	4.44	2.29	3.46	2.01	7.62	28	3.5	2.3
12:25	<50	7.47	-3.28	4.52	2.3	3.77	1.78	7.71	28	3.75	2.4
12:30	<50	7.58	-3.39	4.53	2.31	2.56	1.73	7.74	28	4	2.6
12:35	<50	7.69	-3.5	4.56	2.32	2.51	1.71	7.75	28	4.25	2.8
12:40	<50			4.58	2.32	2.26	1.7	7.55	28	4.5	2.9
12:41	Sample										
	Sample ID:	GW-12636-032515-SSH-15001									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

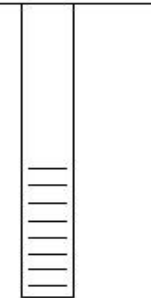
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/25/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-20-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 22.94
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 22
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 17.49



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:00	100	17.49									
13:30	100	17.73	-0.24	7.59	2.31	2.71	4.62	7.47	36	3	1.0
13:35	100	17.76	-0.27	7.59	2.31	2.69	4.61	7.45	36	3.5	1.1
13:40	100	17.77	-0.28	7.58	2.29	2.89	4.59	7.44	36	4	1.3
13:45	100	17.78	-0.29	7.54	2.28	2.47	4.58	7.43	36	4.5	1.5
13:46	Sample										
	Sample ID:	GW-12636-032515-SSH-15002									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi r^2 (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi r^2 (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

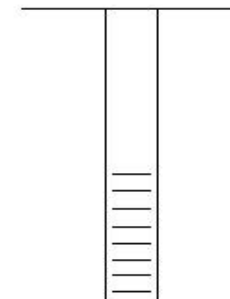
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 12/9/2014
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-4-02
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 17.73
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 4.83
 Depth to Pump Intake (ft)⁽¹⁾: 16.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.0
 Initial Depth to Water (ft): 12.9



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature ° C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
14:10	100	12.9									
14:40	100	14.12	-1.22	7.01	1.183	1.13	7.67	7.39	30	3	1.0
14:45	100	14.34	-1.44	7.06	1.172	1.35	7.37	7.37	30	3.5	1.2
14:50	100	14.46	-1.56	7.05	1.17	1.21	7.38	7.38	30	4	1.3
14:55	100			7.05	1.169	1.72	7.33	7.39	30	4.5	1.5
14:56	Sample										
	Sample ID:	GW-12636-032515-SSH-15003									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

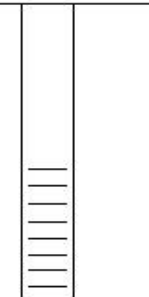
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/25/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-1
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 86.3
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 85
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 78.74



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature ° C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
15:15	100	78.74									
15:45	100	78.77	-0.03	10.3	1.357	8.11	0.37	7.43	-73	3	1.0
15:50	100	78.77	-0.03	10.22	1.358	7.79	0.35	7.42	-73	3.5	1.1
15:55	100	78.77	-0.03	10.19	1.352	7.07	0.32	7.44	-73	4	1.3
16:00	100	78.77	-0.03	10.16	1.351	6.61	0.32	7.43	-73	4.5	1.5
16:01	Sample										
Sample ID:	GW-12636-032515-SSH-15004										
Duplicate Sample ID:	GW-12636-032515-SSH-15005										

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

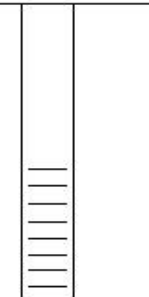
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-4
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 13.4
 Measured Well Depth (ft): 16.32
 Depth of Sediment (ft): -2.92 (1)

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 11.11



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:40	100	11.11									
9:25	100	13.97	-2.86	5.31	1.269	11.1	2.31	7.29	25	3	1.0
9:30	100	14.04	-2.93	5.33	1.278	8.3	1.86	7.34	25	3.5	1.1
9:35	100	14.17	-3.06	5.32	1.285	5.22	1.34	7.39	24	4	1.3
9:40	100	14.31	-3.2	5.4	1.297	3.46	0.98	7.46	24	4.5	1.5
9:45	100	14.45	-3.34	5.41	1.315	2.52	0.72	7.53	23	5	1.6
9:50	100	14.55	-3.44	5.4	1.325	2.01	0.57	7.57	23	5.5	1.8
9:55	100	14.64	-3.53	5.43	1.328	1.89	0.53	7.59	22	6	1.9
10:00	100	14.76	-3.65	5.5	1.33	1.67	0.5	7.6	22	6.5	2.1
10:01	Sample										
	Sample ID:	GW-12636-032615-SSH-15006									
	(1) Well modified (flowmount to stickup)										

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

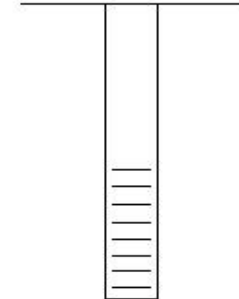
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-18-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 11.51
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5.49
 Depth to Pump Intake (ft)⁽¹⁾: 10.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.4
 Initial Depth to Water (ft): 5.43



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:30	100	5.43									
11:00	100	6.16	-0.73	3.53	4.06	0.73	1.84	7.25	22	3	0.9
11:05	100	6.17	-0.74	3.58	4.07	0.79	1.75	7.23	21	3.5	1.0
11:10	100	6.19	-0.76	3.66	4.12	0.86	1.72	7.2	20	4	1.2
11:15	100	6.19	-0.76	3.67	4.12	0.88	1.69	7.2	20	4.5	1.3
11:20	100	6.2	-0.77	3.57	4.15	0.58	1.68	7.19	20	5	1.5
11:21	Sample										
	Sample ID:	GW-12636-032615-SSH-15007									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

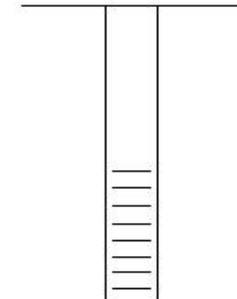
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-16-10
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 86.91
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 85.9
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 67.81



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
11:10	100	67.81									
11:40	100	71.43	-3.62	9.77	0.593	15.4	0.33	7.47	8	3	1.0
11:45	100	71.53	-3.72	9.69	0.593	15.1	0.32	7.48	-2	3.5	1.1
11:50	100	71.77	-3.96	10.04	0.593	13.4	0.29	7.44	-18	4	1.3
11:55	100	72.08	-4.27	10	0.595	12.6	0.25	7.47	-24	4.5	1.5
12:00	100	72.2	-4.39	10.15	0.593	11.7	0.24	7.42	-33	5	1.6
12:05	100	72.5	-4.69	10.15	0.592	12.5	0.24	7.42	-37	5.5	1.8
12:10	100	72.65	-4.84	10.12	0.596	12.6	0.21	7.44	-41	6	1.9
12:11	Sample										
	Sample ID:	GW-12636-032615-SSH-15008									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

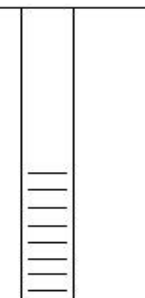
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-17-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 21.18
 Measured Well Depth (ft): 21.48
 Depth of Sediment (ft): -0.3

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 21
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 16.33



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
12:40	100	16.33									
13:10	100	16.43	-0.1	7.3	1.48	3.56	0.23	6.94	-52	3	1.0
13:15	100	16.43	-0.1	7.19	1.47	3.92	0.21	6.93	-54	3.5	1.1
13:20	100	16.43	-0.1	7.19	1.47	2.3	0.2	6.93	-57	4	1.3
13:25	100	16.43	-0.1	7.24	1.24	1.52	0.19	6.94	-58	4.5	1.5
13:26	Sample										
	Sample ID:	GW-12636-032615-SSH-15009									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

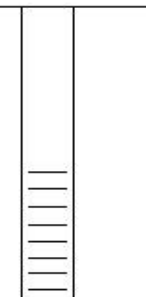
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-10
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 16.3
 Measured Well Depth (ft): 16.11
 Depth of Sediment (ft): 0.19

Saturated Screen Length (ft): 2.31
 Depth to Pump Intake (ft)⁽¹⁾: 15
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.4
 Initial Depth to Water (ft): 6.43



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
14:00	100	6.43									
14:30	100	10.64	-4.21	5.96	2.44	10.3	6.33	6.89	24	3	2.1
14:35	100	10.95	-4.52	5.94	2.42	12.7	6.35	6.9	24	3.5	2.5
14:40	100	11.46	-5.03	5.97	2.41	11.1	6.35	6.91	25	4	2.8
14:45	100	12.05	-5.62	5.99	2.42	10.2	6.33	6.92	25	4.5	3.2
14:50	100	12.48	-6.05	6.14	2.44	10.6	6.3	6.91	25	5	3.5
14:51	Sample										
	Sample ID:	GW-12636-032615-SSH-15011									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

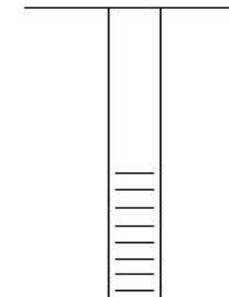
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/26/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-19-13
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 19.75
 Measured Well Depth (ft): 20.26
 Depth of Sediment (ft): -0.51

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 19
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 13.99



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
15:35	100	13.99									
16:00	100	14.29	-0.3	7.2	5.78	31.5	0.96	7.02	28	2.5	0.8
16:05	100	14.29	-0.3	7.15	5.72	26.9	0.99	7.05	29	3	1.0
16:10	100	14.29	-0.3	7	5.69	24.5	1.01	7.03	29	3.5	1.1
16:15	100	14.29	-0.3	7.02	5.68	21.6	1.05	7.04	29	4	1.3
16:20	100	14.29	-0.3	7.03	5.68	20.1	1.04	7.03	29	4.5	1.5
16:21	Sample										
	Sample ID:	GW-12636-032615-SSH-15012									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

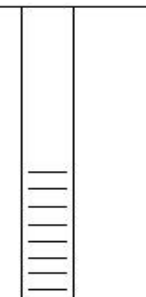
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: B-27D
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 89.66
 Measured Well Depth (ft): 88.01
 Depth of Sediment (ft): 1.65

Saturated Screen Length (ft): 8.35
 Depth to Pump Intake (ft)⁽¹⁾: 87
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 5.2
 Initial Depth to Water (ft): 77.55



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
8:10	100	77.55									
8:50	100	77.95	-0.4	8.16	0.628	50.3	0.24	6.42	-16	4	0.8
8:55	100	77.95	-0.4	8.11	0.628	46.3	0.23	6.5	-16	4.5	0.9
9:00	100	77.95	-0.4	7.94	0.628	45.5	0.21	6.51	-17	5	1.0
9:05	100	77.95	-0.4	7.97	0.629	41.1	0.21	6.53	-17	5.5	1.1
9:06	Sample										
	Sample ID:	GW-12636-032715-SSH-15013									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

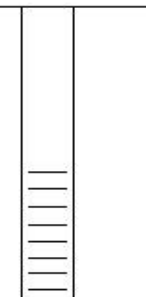
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: B-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 24.9
 Measured Well Depth (ft): 25.36
 Depth of Sediment (ft): -0.46

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 24.3
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 3.17



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:40	100	3.17									
10:10	100	7.93	-4.76	6.12	2.48	17.6	1.56	6.64	32	3	1.0
10:15	100	8.21	-5.04	6.21	2.48	13.7	1.49	6.64	32	3.5	1.1
10:20	100	8.62	-5.45	6.24	2.48	13.6	1.45	6.64	32	4	1.3
10:25	100	9.06	-5.89	6.18	2.48	13.3	1.42	6.64	32	4.5	1.5
10:26	Sample										
	Sample ID:	GW-12636-032715-SSH-15014									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

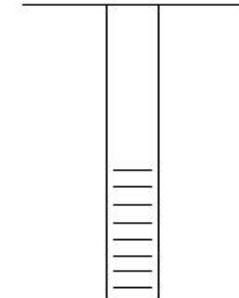
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-2
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 16.9
 Measured Well Depth (ft): 16.83
 Depth of Sediment (ft): 0.07

Saturated Screen Length (ft): 2.43
 Depth to Pump Intake (ft)⁽¹⁾: 15.82
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 7.13



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
10:50	100	8.01									
11:20	100	9.25	-1.24	4.99	0.671	4.4	1.07	7.14	-30	3	2.0
11:25	100	9.36	-1.35	5.12	0.672	3.19	0.98	7.14	-33	3.5	2.3
11:30	100	9.36	-1.35	5.11	0.672	2.27	0.87	7.13	-36	4	2.7
11:35	100	9.36	-1.35	4.97	0.676	2.19	0.85	7.13	-35	4.5	3.0
11:40	100	9.36	-1.35	4.98	0.674	2.53	0.81	7.13	-34	5	3.3
11:41	Sample										
	Sample ID:	GW-12636-032715-SSH-15016									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

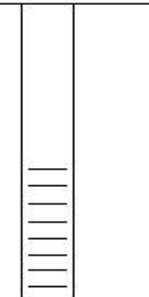
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-1
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 25
 Measured Well Depth (ft): 24.93
 Depth of Sediment (ft): 0.07

Saturated Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 23.9
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 6.2
 Initial Depth to Water (ft): 3.88



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
11:15	100	3.88									
11:55	100	9.27	-5.39	4.89	0.235	3.83	3.51	7.28	9	4	0.6
12:00	100	9.46	-5.58	4.95	0.231	3.73	2.64	7.27	9	4.5	0.7
12:05	100	9.65	-5.77	4.88	0.322	4.21	2.65	7.24	9	5	0.8
12:10	100	9.8	-5.92	4.84	0.314	3.48	2.67	7.28	9	5.5	0.9
12:15	100	9.93	-6.05	4.72	0.31	3.76	2.69	7.29	10	6	1.0
12:20	100	10.08	-6.2	4.7	0.308	3.82	2.7	7.28	10	6.5	1.1
12:21	Sample										
	Sample ID:	GW-12636-032715-SSH-15017									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

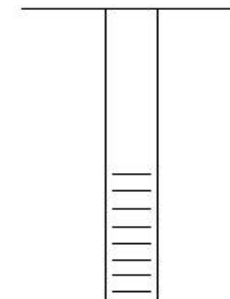
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: PFW-9
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 11.4
 Measured Well Depth (ft): 11.29
 Depth of Sediment (ft): 0.11

Saturated Screen Length (ft): 2.39
 Depth to Pump Intake (ft)⁽¹⁾: 10.3
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 1.5
 Initial Depth to Water (ft): 8.36



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:00	100	8.36									
13:30	100	8.74	-0.38	2.86	0.593	2.38	5.14	6.98	12	3	2.0
13:35	100	8.76	-0.4	2.84	0.597	1.65	5.05	6.99	12	3.5	2.4
13:40	100	8.76	-0.4	2.81	0.6	0.89	5.01	7	12	4	2.7
13:45	100	8.76	-0.4	2.82	0.603	1.73	4.96	7.01	12	4.5	3.0
13:46	Sample										
	Sample ID:	GW-12636-032715-SSH-15018									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

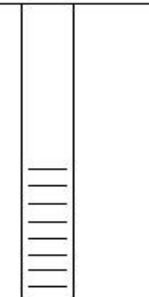
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 3/27/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-2
 Vapour PID (ppm): N/A
 Measurement Point: Top of Riser
 Constructed Well Depth (ft): 25
 Measured Well Depth (ft): 24.69
 Depth of Sediment (ft): 0.31

Saturated Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 23.5
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 6.2
 Initial Depth to Water (ft): 5.86



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
14:00	100	5.86									
14:30	100	8.83	-2.97	5.58	1.59	9.49	0.13	6.72	11	3	0.5
14:35	100	9.32	-3.46	5.75	1.6	7.94	0.13	6.71	8	3.5	0.6
14:40	100	9.79	-3.93	5.67	1.59	6	0.14	6.7	4	4	0.6
14:45	100	10.09	-4.23	5.87	1.59	5.9	0.12	6.7	4	4.5	0.7
14:46	Sample										
14:47	Duplicate Sample										
	Sample ID:	GW-12636-032715-SSH-15019									
	Duplicate Sample ID:	GW-12636-032715-SSH-15020									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

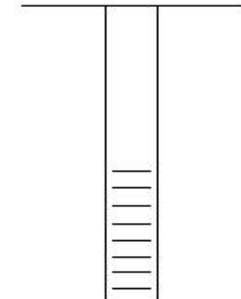
Project Name: RACER Coldwater Rd Industrial Land
 Ref. No.: 012636-T09-001Y15

Date: 4/29/2015
 Personnel: Steve Hoevemeyer

Monitoring Well Data:

Well No.: MW-15-10
 Vapour PID (ppm): N/A
 Measurement Point: Top of Casing
 Constructed Well Depth (ft): 96.52
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Saturated Screen Length (ft): 5
 Depth to Pump Intake (ft)⁽¹⁾: 95
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (L)⁽²⁾: 3.1
 Initial Depth to Water (ft): 78.51



Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
9:00	100	78.51									
9:45	100	79.57	-1.06	10.3	0.578	226	1.23	7.25	-71.2	3	1.0
9:55	100	79.96	-1.45	10.5	0.579	191	1.52	7.34	-69.9	3.5	1.1
10:00	100	80.05	-1.54	10.5	0.578	168	1.56	7.38	-69.3	4	1.3
10:05	100	80.1	-1.59	10.5	0.577	142	1.58	7.39	-69.2	4.5	1.5
10:10	100	80.14	-1.63	10.5	0.577	131	1.58	7.4	-69.5	5	1.6
10:11	Sample										
	Sample ID:	GW-12636-042915-SSH-1521									

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Attachment B



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

To: Mike Tomka
FROM: Ruth Mickle/tl/164/Det *RF Fr-*
REF. NO.: 012636
DATE: July 16, 2014
RE: **Analytical Results and Reduced Validation
Groundwater Monitoring
RACER - Peregrine Site
Genesee County, Michigan
June 2014**

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Groundwater Monitoring at the RACER - Peregrine Site in Genesee County, Michigan during June 2014. 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 Conestoga-Rovers & Associates (CRA) 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 form, finished report forms, method blank data, laboratory control samples (LCS), matrix spikes (MS), 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 guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the RCRA Facility Investigation (RFI) at Former Peregrine (US) Inc., Coldwater Road Facility, Genesee Township, Michigan", April 28, 2000
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- iii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

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

2.0 Sample Holding Time and Preservation

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

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

3.0 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 1 per 20 investigative samples and/or 1 per analytical batch.

Table 4 presents the metals data qualified for method blank contamination. Qualification was not required for analytes that were non-detect in investigative samples or were detected at levels greater than five times the method blank results. All remaining method blank results were non-detect, indicating laboratory contamination was not a factor.

4.0 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 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 analysis.

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

5.0 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 was analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

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

Inorganic Analyses

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

6.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses - Organic Analyses

To evaluate the effects of sample matrices on the extraction or digestion 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. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

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

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7.0 Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. Carbon disulfide, methylene chloride and chloroform were detected in the trip blank sample. Since the associated sample data were nondetect for these parameters, no data qualification was required. All remaining trip blank results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with this duplicate sample 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.

The field duplicate result was within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8.0 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 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.

9.0 Conclusion

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

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters					Comments
					TCL VOC	Total Manganese & Lead	Dissolved Manganese & Lead	Dissolved TAL Site Metals	Cyanide, Total & Amenable	
TA-SDG No: 240-38391-1										
GW-12636-060914-SSH-1420	B-9	water	6/9/2014	10:11	-	X	X	-	-	MS/MSD
GW-12636-060914-SSH-1421	PFW-2	water	6/9/2014	11:16	-	X	X	-	-	
GW-12636-060914-SSH-1422	PFW-9	water	6/9/2014	12:16	-	X	X	-	-	
GW-12636-060914-SSH-1423	MW-20-13	water	6/9/2014	13:21	-	X	X	-	-	
GW-12636-060914-SSH-1424	MW-19-13	water	6/9/2014	14:24	-	X	X	-	-	
GW-12636-061014-SSH-1425	PFW-4	water	6/10/2014	8:56	X	-	-	X	X	MS/MSD
GW-12636-061014-SSH-1426	PFW-4	water	6/10/2014	9:01	X	-	-	X	X	Field duplicate of PFW-4
TB-12636-061014-SSH-1427	Trip Blank	water	6/10/2014	9:05	X	-	-	-	-	Trip Blank
GW-12636-061014-SSH-1428	MW-4-02	water	6/10/2014	10:26	-	X	X	-	-	
GW-12636-061014-SSH-1429	MW-17-13	water	6/10/2014	11:31	-	X	X	-	-	
GW-12636-061014-SSH-1430	MW-18-13	water	6/10/2014	13:01	-	X	X	-	-	

Notes:

TA - TestAmerica Laboratories
TCL VOC - Target Compound List Volatile Organic Compounds
TAL - Target Analyte List
MS/MSD - Matrix Spike/Matrix Spike Duplicate
SDG - Sample Delivery Group

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	B-9	MW-4-02	MW-17-13	MW-18-13
Sample ID:	GW-12636-060914-SSH-1420	GW-12636-061014-SSH-1428	GW-12636-061014-SSH-1429	GW-12636-061014-SSH-1430
Sample Date:	6/9/2014	6/10/2014	6/10/2014	6/10/2014
Parameters:				
Volatile Organic Compounds				
1,1,1-Trichloroethane	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-
1,1,2-Trichloroethane	-	-	-	-
1,1-Dichloroethane	-	-	-	-
1,1-Dichloroethene	-	-	-	-
1,2,4-Trichlorobenzene	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-
1,2-Dichloroethane	-	-	-	-
1,2-Dichloropropane	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-
1,3-Dichlorobenzene	-	-	-	-
1,4-Dichlorobenzene	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	-	-	-	-
2-Hexanone	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	-	-	-	-
Acetone	-	-	-	-
Benzene	-	-	-	-
Bromodichloromethane	-	-	-	-
Bromoform	-	-	-	-
Bromomethane (Methyl bromide)	-	-	-	-
Carbon disulfide	-	-	-	-
Carbon tetrachloride	-	-	-	-
Chlorobenzene	-	-	-	-
Chloroethane	-	-	-	-
Chloroform (Trichloromethane)	-	-	-	-
Chloromethane (Methyl chloride)	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-
cis-1,3-Dichloropropene	-	-	-	-
Cyclohexane	-	-	-	-

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	B-9	MW-4-02	MW-17-13	MW-18-13
Sample ID:	GW-12636-060914-SSH-1420	GW-12636-061014-SSH-1428	GW-12636-061014-SSH-1429	GW-12636-061014-SSH-1430
Sample Date:	6/9/2014	6/10/2014	6/10/2014	6/10/2014
Parameters:				
Volatile Organic Compounds				
Dibromochloromethane	-	-	-	-
Dichlorodifluoromethane (CFC-12)	-	-	-	-
Ethylbenzene	-	-	-	-
Isopropyl benzene	-	-	-	-
Methyl acetate	-	-	-	-
Methyl cyclohexane	-	-	-	-
Methyl tert butyl ether (MTBE)	-	-	-	-
Methylene chloride	-	-	-	-
Styrene	-	-	-	-
Tetrachloroethene	-	-	-	-
Toluene	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-
trans-1,3-Dichloropropene	-	-	-	-
Trichloroethene	-	-	-	-
Trichlorofluoromethane (CFC-11)	-	-	-	-
Trifluorotrichloroethane (Freon 113)	-	-	-	-
Vinyl chloride	-	-	-	-
Xylenes (total)	-	-	-	-

Units

Metals

Aluminum (dissolved)	-	-	-	-
Antimony (dissolved)	-	-	-	-
Arsenic (dissolved)	-	-	-	-
Barium (dissolved)	-	-	-	-
Beryllium (dissolved)	-	-	-	-
Cadmium (dissolved)	-	-	-	-
Chromium (dissolved)	-	-	-	-
Cobalt (dissolved)	-	-	-	-
Copper (dissolved)	-	-	-	-
Iron (dissolved)	-	-	-	-
Lead	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	B-9	MW-4-02	MW-17-13	MW-18-13
Sample ID:	GW-12636-060914-SSH-1420	GW-12636-061014-SSH-1428	GW-12636-061014-SSH-1429	GW-12636-061014-SSH-1430
Sample Date:	6/9/2014	6/10/2014	6/10/2014	6/10/2014
Parameters:				
Metals				
Lead (dissolved)	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	30	23	1600	71
Manganese (dissolved)	19	1.6 J	1700	61
Mercury (dissolved)	-	-	-	-
Nickel (dissolved)	-	-	-	-
Selenium (dissolved)	-	-	-	-
Silver (dissolved)	-	-	-	-
Thallium (dissolved)	-	-	-	-
Vanadium (dissolved)	-	-	-	-
Zinc (dissolved)	-	-	-	-
General Chemistry				
Cyanide (amenable)	-	-	-	-
Cyanide (total)	-	-	-	-

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	MM-19-13	MM-20-13	PFW-2	PFW-4
Sample ID:	GW-12636-060914-SSH-1424	GW-12636-060914-SSH-1423	GW-12636-060914-SSH-1421	GW-12636-061014-SSH-1422
Sample Date:	6/9/2014	6/9/2014	6/9/2014	6/10/2014
Parameters:	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	-	-	-	1.0 U
1,1,2,2-Tetrachloroethane	-	-	-	1.0 U
1,1,2-Trichloroethane	-	-	-	1.0 U
1,1-Dichloroethane	-	-	-	1.0 U
1,1-Dichloroethene	-	-	-	1.0 U
1,2,4-Trichlorobenzene	-	-	-	1.0 U
1,2,4-Trimethylbenzene	-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	-	-	-	1.0 U
1,1,2-Dibromoethane (Ethylene dibromide)	-	-	-	1.0 U
1,2-Dichlorobenzene	-	-	-	1.0 U
1,2-Dichloroethane	-	-	-	1.0 U
1,2-Dichloropropane	-	-	-	1.0 U
1,3,5-Trimethylbenzene	-	-	-	1.0 U
1,3-Dichlorobenzene	-	-	-	1.0 U
1,4-Dichlorobenzene	-	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	-	-	-	10 U
2-Hexanone	-	-	-	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	-	-	-	10 U
Acetone	-	-	-	1.0 U
Benzene	-	-	-	1.0 U
Bromodichloromethane	-	-	-	1.0 U
Bromoform	-	-	-	1.0 U
Bromomethane (Methyl bromide)	-	-	-	1.0 U
Carbon disulfide	-	-	-	5.0 U
Carbon tetrachloride	-	-	-	1.0 U
Chlorobenzene	-	-	-	1.0 U
Chloroethane	-	-	-	1.0 U
Chloroform (Trichloromethane)	-	-	-	1.0 U
Chloromethane (Methyl chloride)	-	-	-	1.0 U
cis-1,2-Dichloroethene	-	-	-	1.0 U
cis-1,3-Dichloropropene	-	-	-	1.0 U
Cyclohexane	-	-	-	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:		MW-19-13 GW-12636-060914-SSH-1424 6/9/2014		MW-20-13 GW-12636-060914-SSH-1423 6/9/2014		PFW-2 GW-12636-060914-SSH-1421 6/9/2014		PFW-4 GW-12636-061014-SSH-1422 6/10/2014	
Sample ID:									
Sample Date:									
Parameters:									
Volatile Organic Compounds									
Dibromochloromethane	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Ethylbenzene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Isopropyl benzene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Methyl acetate	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Methyl cyclohexane	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Methylene chloride	ug/L	-	-	-	-	-	-	5.0 U	5.0 U
Styrene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Tetrachloroethene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Toluene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Trichloroethene	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Vinyl chloride	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Xylenes (total)	ug/L	-	-	-	-	-	-	2.0 U	2.0 U
Metals									
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	17 J	17 J
Antimony (dissolved)	ug/L	-	-	-	-	-	-	0.87 J	0.87 J
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	5.0 U	5.0 U
Barium (dissolved)	ug/L	-	-	-	-	-	-	24 J	24 J
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	1.0 U	1.0 U
Chromium (dissolved)	ug/L	-	-	-	-	-	-	5.0 U	5.0 U
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	7.0 U	7.0 U
Copper (dissolved)	ug/L	-	-	-	-	-	-	5.1 U	5.1 U
Iron (dissolved)	ug/L	-	-	-	-	-	-	100 U	100 U
Lead	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	2.3 J	2.3 J	-	-

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	MW-19-13	MW-20-13	PFW-2	PFW-4
Sample ID:	GW-12636-060914-SSH-1424	GW-12636-060914-SSH-1423	GW-12636-060914-SSH-1421	GW-12636-061014-SSH-1425
Sample Date:	6/9/2014	6/9/2014	6/9/2014	6/10/2014
Parameters:				
Metals				
Lead (dissolved)	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	92	2.3 J	1500	-
Manganese (dissolved)	110	1.2 J	1500	52
Mercury (dissolved)	-	-	-	0.20 U
Nickel (dissolved)	-	-	-	20 U
Selenium (dissolved)	-	-	-	5.0 U
Silver (dissolved)	-	-	-	0.20 U
Thallium (dissolved)	-	-	-	1.0 U
Vanadium (dissolved)	-	-	-	4.0 U
Zinc (dissolved)	-	-	-	5.8 J
General Chemistry				
Cyanide (amenable)	-	-	-	0.0050 U
Cyanide (total)	-	-	-	0.0050 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	PFW-4	PFW-9	Trip Blank
Sample ID:	GW-12636-061014-SSH-1426	GW-12636-060914-SSH-1422	TB-12636-061014-SSH-1427
Sample Date:	6/10/2014	6/9/2014	6/10/2014
Parameters:	(Duplicate)		(other)
Parameters:	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	1.0 U	-	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	-	1.0 U
1,1,2-Trichloroethane	1.0 U	-	1.0 U
1,1-Dichloroethane	1.0 U	-	1.0 U
1,1-Dichloroethene	1.0 U	-	1.0 U
1,2,4-Trichlorobenzene	1.0 U	-	1.0 U
1,2,4-Trimethylbenzene	1.0 U	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	1.0 U	-	1.0 U
1,2-Dichlorobenzene	1.0 U	-	1.0 U
1,2-Dichloroethane	1.0 U	-	1.0 U
1,2-Dichloropropane	1.0 U	-	1.0 U
1,3,5-Trimethylbenzene	1.0 U	-	1.0 U
1,3-Dichlorobenzene	1.0 U	-	1.0 U
1,4-Dichlorobenzene	1.0 U	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	10 U	-	10 U
2-Hexanone	10 U	-	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	10 U	-	10 U
Acetone	10 U	-	10 U
Benzene	1.0 U	-	1.0 U
Bromodichloromethane	1.0 U	-	1.0 U
Bromoform	1.0 U	-	1.0 U
Bromomethane (Methyl bromide)	1.0 U	-	1.0 U
Carbon disulfide	5.0 U	-	0.14 J
Carbon tetrachloride	1.0 U	-	1.0 U
Chlorobenzene	1.0 U	-	1.0 U
Chloroethane	1.0 U	-	1.0 U
Chloroform (Trichloromethane)	1.0 U	-	0.39 J
Chloromethane (Methyl chloride)	1.0 U	-	1.0 U
cis-1,2-Dichloroethene	1.0 U	-	1.0 U
cis-1,3-Dichloropropene	1.0 U	-	1.0 U
Cyclohexane	1.0 U	-	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	PFW-4	PFW-9	Trip Blank
Sample ID:	GW-12636-061014-SSH-1426	GW-12636-060914-SSH-1422	TB-12636-061014-SSH-1427
Sample Date:	6/10/2014	6/9/2014	6/10/2014
Parameters:	(Duplicate)		(other)
Volatile Organic Compounds			
Dibromochloromethane	1.0 U	-	1.0 U
Dichlorodifluoromethane (CFC-12)	1.0 U	-	1.0 U
Ethylbenzene	1.0 U	-	1.0 U
Isopropyl benzene	1.0 U	-	1.0 U
Methyl acetate	10 U	-	10 U
Methyl cyclohexane	1.0 U	-	1.0 U
Methyl tert butyl ether (MTBE)	1.0 U	-	1.0 U
Methylene chloride	5.0 U	-	0.74 J
Styrene	1.0 U	-	1.0 U
Tetrachloroethene	1.0 U	-	1.0 U
Toluene	1.0 U	-	1.0 U
trans-1,2-Dichloroethene	1.0 U	-	1.0 U
trans-1,3-Dichloropropene	1.0 U	-	1.0 U
Trichloroethene	1.0 U	-	1.0 U
Trichlorofluoromethane (CFC-11)	1.0 U	-	1.0 U
Trifluorotrichloroethane (Freon 113)	1.0 U	-	1.0 U
Vinyl chloride	1.0 U	-	1.0 U
Xylenes (total)	2.0 U	-	2.0 U
Metals			
Aluminum (dissolved)	18 J	-	-
Antimony (dissolved)	0.79 J	-	-
Arsenic (dissolved)	5.0 U	-	-
Barium (dissolved)	24 J	-	-
Beryllium (dissolved)	1.0 U	-	-
Cadmium (dissolved)	1.0 U	-	-
Chromium (dissolved)	5.0 U	-	-
Cobalt (dissolved)	7.0 U	-	-
Copper (dissolved)	4.9 U	-	-
Iron (dissolved)	100 U	-	-
Lead	-	3.0 U	-

Units

Volatile Organic Compounds

Dibromochloromethane

Dichlorodifluoromethane (CFC-12)

Ethylbenzene

Isopropyl benzene

Methyl acetate

Methyl cyclohexane

Methyl tert butyl ether (MTBE)

Methylene chloride

Styrene

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane (CFC-11)

Trifluorotrichloroethane (Freon 113)

Vinyl chloride

Xylenes (total)

Metals

Aluminum (dissolved)

Antimony (dissolved)

Arsenic (dissolved)

Barium (dissolved)

Beryllium (dissolved)

Cadmium (dissolved)

Chromium (dissolved)

Cobalt (dissolved)

Copper (dissolved)

Iron (dissolved)

Lead

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Sample Location:	PFW-4	PFW-9	Trip Blank
Sample ID:	GW-12636-061014-SSH-1426	GW-12636-060914-SSH-1422	TB-12636-061014-SSH-1427
Sample Date:	6/10/2014	6/9/2014	6/10/2014
Parameters:	(Duplicate)		(other)
Metals			
Lead (dissolved)	3.0 U	3.0 U	-
Manganese	-	15 U	-
Mercury (dissolved)	52	1.1 J	-
Nickel (dissolved)	0.20 U	-	-
Selenium (dissolved)	5.9 J	-	-
Silver (dissolved)	5.0 U	-	-
Thallium (dissolved)	0.20 U	-	-
Vanadium (dissolved)	1.0 U	-	-
Zinc (dissolved)	4.0 U	-	-
	8.8 J	-	-
General Chemistry			
Cyanide (amenable)	0.0050 U	-	-
Cyanide (total)	0.0050 U	-	-

Notes:

J - Estimated concentration.
 U - Not present at or above the associated value.
 - - Not analyzed.

TABLE 3

**ANALYTICAL METHODS AND HOLDING TIME CRITERIA
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014**

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (Days)</i>	<i>to Analysis (Days)</i>
TCL VOC	SW-846 8260	Water	-	14
Total and Dissolved Manganese and Lead	SW-846 6010B	Water	-	180
Dissolved Site TAL Metals (except Mercury)	SW-846 6010B/6020	Water	-	180
Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide (Amenable & Total)	SW-846 9012	Water	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
 TCL VOC - Target Compound List Volatile Organic Compounds
 TAL - Target Analyte List

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
JUNE 2014

Parameter	Analyte	Analysis Date	Blank Result	Sample ID	Original Result	Qualified Result	Units
Dissolved Site TAL Metals	Copper	6/13/2014	1.1 J	GW-12636-061014-SSH-1425	5.1 B	5.1 U	µg/L
				GW-12636-061014-SSH-1426	4.9 B	4.9 U	µg/L
Dissolved Site TAL Metals	Silver	6/13/2014	0.0100 J	GW-12636-061014-SSH-1425	0.018 JB	0.20 U	µg/L

Notes:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- B - Laboratory qualifier - result detected in associated method blank
- TCL VOC - Target Compound List Volatile Organic Compounds
- TAL - Target Analyte List

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: 240-38391-1

Client Project/Site: 12636-T09-007, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

6/25/2014 1:46:58 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Job ID: 240-38391-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-007, RACER Peregrine

Report Number: 240-38391-1

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 06/11/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.4 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12636-061014-SSH-1425 (240-38391-6), GW-12636-061014-SSH-1426 (240-38391-7) and TB-12636-061014-SSH-1427 (240-38391-8) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/19/2014 and 06/20/2014.

1,2,4-Trichlorobenzene and Methylene Chloride were detected in method blank MB 240-135377/6 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.

Methylene Chloride was detected in method blank MB 240-135446/6 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.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Job ID: 240-38391-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

DISSOLVED METALS (ICP)

Samples GW-12636-060914-SSH-1420 (240-38391-1), GW-12636-060914-SSH-1421 (240-38391-2), GW-12636-060914-SSH-1422 (240-38391-3), GW-12636-060914-SSH-1423 (240-38391-4), GW-12636-060914-SSH-1424 (240-38391-5), GW-12636-061014-SSH-1425 (240-38391-6), GW-12636-061014-SSH-1426 (240-38391-7), GW-12636-061014-SSH-1428 (240-38391-9), GW-12636-061014-SSH-1429 (240-38391-10) and GW-12636-061014-SSH-1430 (240-38391-11) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/12/2014 and analyzed on 06/13/2014.

Requested reporting limits (RL) that fall below the laboratory's verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12636-060914-SSH-1420 (240-38391-1), GW-12636-060914-SSH-1421 (240-38391-2), GW-12636-060914-SSH-1422 (240-38391-3), GW-12636-060914-SSH-1423 (240-38391-4), GW-12636-060914-SSH-1424 (240-38391-5), GW-12636-061014-SSH-1428 (240-38391-9), GW-12636-061014-SSH-1429 (240-38391-10) and GW-12636-061014-SSH-1430 (240-38391-11) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/12/2014 and analyzed on 06/13/2014.

Barium was detected in method blank MB 240-134384/1-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.

Requested reporting limits (RL) that fall below the laboratory's verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS)

Samples GW-12636-061014-SSH-1425 (240-38391-6) and GW-12636-061014-SSH-1426 (240-38391-7) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/12/2014 and analyzed on 06/13/2014.

Copper and Silver were detected in method blank MB 240-134384/1-A 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.

Requested reporting limits (RL) that fall below the laboratory's verified standard quantitation limit have less certainty (i.e., are estimated) and must be used at the client's discretion. The continuing calibration blanks and method blanks may not support the lower RL.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY (CVAA)

Samples GW-12636-061014-SSH-1425 (240-38391-6) and GW-12636-061014-SSH-1426 (240-38391-7) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 06/12/2014 and analyzed on 06/13/2014.

No difficulties were encountered during the mercury analysis.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Job ID: 240-38391-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

All quality control parameters were within the acceptance limits.

TOTAL CYANIDE

Samples GW-12636-061014-SSH-1425 (240-38391-6) and GW-12636-061014-SSH-1426 (240-38391-7) were analyzed for total cyanide in accordance with EPA SW-846 Method 9012A. The samples were prepared and analyzed on 06/19/2014.

No difficulties were encountered during the cyanide analysis.

All quality control parameters were within the acceptance limits.

AMENABLE CYANIDE

Samples GW-12636-061014-SSH-1425 (240-38391-6) and GW-12636-061014-SSH-1426 (240-38391-7) were analyzed for amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were analyzed on 06/18/2014.

No difficulties were encountered during the amenable cyanide analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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.
B	Compound was found in the blank and sample.

Metals

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

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-38391-1	GW-12636-060914-SSH-1420	Water	06/09/14 10:11	06/11/14 09:30
240-38391-2	GW-12636-060914-SSH-1421	Water	06/09/14 11:16	06/11/14 09:30
240-38391-3	GW-12636-060914-SSH-1422	Water	06/09/14 12:16	06/11/14 09:30
240-38391-4	GW-12636-060914-SSH-1423	Water	06/09/14 13:21	06/11/14 09:30
240-38391-5	GW-12636-060914-SSH-1424	Water	06/09/14 14:24	06/11/14 09:30
240-38391-6	GW-12636-061014-SSH-1425	Water	06/10/14 08:56	06/11/14 09:30
240-38391-7	GW-12636-061014-SSH-1426	Water	06/10/14 09:01	06/11/14 09:30
240-38391-8	TB-12636-061014-SSH-1427	Water	06/10/14 09:05	06/11/14 09:30
240-38391-9	GW-12636-061014-SSH-1428	Water	06/10/14 10:26	06/11/14 09:30
240-38391-10	GW-12636-061014-SSH-1429	Water	06/10/14 11:31	06/11/14 09:30
240-38391-11	GW-12636-061014-SSH-1430	Water	06/10/14 13:01	06/11/14 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Client Sample ID: GW-12636-060914-SSH-1420

Lab Sample ID: 240-38391-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	30		15	0.96	ug/L	1		6010B	Total
Manganese	19		15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-060914-SSH-1421

Lab Sample ID: 240-38391-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1500		15	0.96	ug/L	1		6010B	Total
Lead	2.3	J	3.0	1.9	ug/L	1		6010B	Recoverable Total
Manganese	1500		15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-060914-SSH-1422

Lab Sample ID: 240-38391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.1	J	15	0.96	ug/L	1		6010B	Dissolved

Client Sample ID: GW-12636-060914-SSH-1423

Lab Sample ID: 240-38391-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.3	J	15	0.96	ug/L	1		6010B	Total
Manganese	1.2	J	15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-060914-SSH-1424

Lab Sample ID: 240-38391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	92		15	0.96	ug/L	1		6010B	Total
Manganese	110		15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-061014-SSH-1425

Lab Sample ID: 240-38391-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24	J B	100	0.67	ug/L	1		6010B	Dissolved
Manganese	52		15	0.96	ug/L	1		6010B	Dissolved
Zinc	5.8	J	20	5.0	ug/L	1		6010B	Dissolved
Aluminum	17	J	50	7.5	ug/L	1		6020	Dissolved
Antimony	0.87	J	2.0	0.11	ug/L	1		6020	Dissolved
Copper	5.1	B	2.0	0.24	ug/L	1		6020	Dissolved
Silver	0.018	J B	0.20	0.0083	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-061014-SSH-1426

Lab Sample ID: 240-38391-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24	J B	100	0.67	ug/L	1		6010B	Dissolved
Manganese	52		15	0.96	ug/L	1		6010B	Dissolved
Nickel	5.9	J	20	3.2	ug/L	1		6010B	Dissolved
Zinc	8.8	J	20	5.0	ug/L	1		6010B	Dissolved
Aluminum	18	J	50	7.5	ug/L	1		6020	Dissolved
Antimony	0.79	J	2.0	0.11	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Client Sample ID: GW-12636-061014-SSH-1426 (Continued)

Lab Sample ID: 240-38391-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.9	B	2.0	0.24	ug/L	1		6020	Dissolved

Client Sample ID: TB-12636-061014-SSH-1427

Lab Sample ID: 240-38391-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.14	J	5.0	0.13	ug/L	1		8260B	Total/NA
Chloroform	0.39	J	1.0	0.16	ug/L	1		8260B	Total/NA
Methylene Chloride	0.74	J B	5.0	0.33	ug/L	1		8260B	Total/NA

Client Sample ID: GW-12636-061014-SSH-1428

Lab Sample ID: 240-38391-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	23		15	0.96	ug/L	1		6010B	Total
Manganese	1.6	J	15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-061014-SSH-1429

Lab Sample ID: 240-38391-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1600		15	0.96	ug/L	1		6010B	Total
Manganese	1700		15	0.96	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-061014-SSH-1430

Lab Sample ID: 240-38391-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	71		15	0.96	ug/L	1		6010B	Total
Manganese	61		15	0.96	ug/L	1		6010B	Recoverable Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Amenable	SW846	TAL CAN
9012A	Cyanide, Total and/or Amenable	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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1425

Lab Sample ID: 240-38391-6

Date Collected: 06/10/14 08:56

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			06/20/14 08:42	1
Benzene	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/20/14 08:42	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/20/14 08:42	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/20/14 08:42	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/20/14 08:42	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/20/14 08:42	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 08:42	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/20/14 08:42	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/20/14 08:42	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/20/14 08:42	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/20/14 08:42	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 08:42	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 08:42	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/20/14 08:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			06/20/14 08:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/20/14 08:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/20/14 08:42	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/20/14 08:42	1
2-Hexanone	10	U	10	0.41	ug/L			06/20/14 08:42	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			06/20/14 08:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/20/14 08:42	1
Styrene	1.0	U	1.0	0.11	ug/L			06/20/14 08:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/20/14 08:42	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/20/14 08:42	1
Toluene	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 08:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.096	ug/L			06/20/14 08:42	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/20/14 08:42	1
Xylenes, Total	2.0	U	2.0	0.14	ug/L			06/20/14 08:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 08:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/20/14 08:42	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/20/14 08:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/20/14 08:42	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/20/14 08:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/20/14 08:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 08:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 08:42	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Methyl acetate	10	U	10	0.38	ug/L			06/20/14 08:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/20/14 08:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/20/14 08:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 08:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/20/14 08:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/20/14 08:42	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/20/14 08:42	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1425

Lab Sample ID: 240-38391-6

Date Collected: 06/10/14 08:56

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/20/14 08:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		63 - 129					06/20/14 08:42	1
4-Bromofluorobenzene (Surr)	72		66 - 120					06/20/14 08:42	1
Toluene-d8 (Surr)	85		74 - 120					06/20/14 08:42	1
Dibromofluoromethane (Surr)	92		75 - 121					06/20/14 08:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1426

Date Collected: 06/10/14 09:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			06/20/14 03:04	1
Benzene	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/20/14 03:04	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/20/14 03:04	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/20/14 03:04	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/20/14 03:04	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/20/14 03:04	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 03:04	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/20/14 03:04	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/20/14 03:04	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/20/14 03:04	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/20/14 03:04	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 03:04	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 03:04	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/20/14 03:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			06/20/14 03:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/20/14 03:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/20/14 03:04	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/20/14 03:04	1
2-Hexanone	10	U	10	0.41	ug/L			06/20/14 03:04	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			06/20/14 03:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/20/14 03:04	1
Styrene	1.0	U	1.0	0.11	ug/L			06/20/14 03:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/20/14 03:04	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/20/14 03:04	1
Toluene	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 03:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.096	ug/L			06/20/14 03:04	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/20/14 03:04	1
Xylenes, Total	2.0	U	2.0	0.14	ug/L			06/20/14 03:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 03:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/20/14 03:04	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/20/14 03:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/20/14 03:04	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/20/14 03:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/20/14 03:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 03:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 03:04	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Methyl acetate	10	U	10	0.38	ug/L			06/20/14 03:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/20/14 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/20/14 03:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 03:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/20/14 03:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/20/14 03:04	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/20/14 03:04	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1426

Lab Sample ID: 240-38391-7

Date Collected: 06/10/14 09:01

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/20/14 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		63 - 129					06/20/14 03:04	1
4-Bromofluorobenzene (Surr)	75		66 - 120					06/20/14 03:04	1
Toluene-d8 (Surr)	83		74 - 120					06/20/14 03:04	1
Dibromofluoromethane (Surr)	92		75 - 121					06/20/14 03:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: TB-12636-061014-SSH-1427

Date Collected: 06/10/14 09:05

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			06/19/14 13:27	1
Benzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/19/14 13:27	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/19/14 13:27	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/19/14 13:27	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/19/14 13:27	1
Carbon disulfide	0.14	J	5.0	0.13	ug/L			06/19/14 13:27	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/19/14 13:27	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/19/14 13:27	1
Chloroform	0.39	J	1.0	0.16	ug/L			06/19/14 13:27	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/19/14 13:27	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/19/14 13:27	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/19/14 13:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/19/14 13:27	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/19/14 13:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			06/19/14 13:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/19/14 13:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/19/14 13:27	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/19/14 13:27	1
2-Hexanone	10	U	10	0.41	ug/L			06/19/14 13:27	1
Methylene Chloride	0.74	J B	5.0	0.33	ug/L			06/19/14 13:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/19/14 13:27	1
Styrene	1.0	U	1.0	0.11	ug/L			06/19/14 13:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/19/14 13:27	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/19/14 13:27	1
Toluene	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/19/14 13:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.096	ug/L			06/19/14 13:27	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/19/14 13:27	1
Xylenes, Total	2.0	U	2.0	0.14	ug/L			06/19/14 13:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/19/14 13:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/19/14 13:27	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/19/14 13:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/19/14 13:27	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/19/14 13:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/19/14 13:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/19/14 13:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/19/14 13:27	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Methyl acetate	10	U	10	0.38	ug/L			06/19/14 13:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/19/14 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/19/14 13:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/19/14 13:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/19/14 13:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/19/14 13:27	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/19/14 13:27	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: TB-12636-061014-SSH-1427

Lab Sample ID: 240-38391-8

Date Collected: 06/10/14 09:05

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/19/14 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129					06/19/14 13:27	1
4-Bromofluorobenzene (Surr)	90		66 - 120					06/19/14 13:27	1
Toluene-d8 (Surr)	98		74 - 120					06/19/14 13:27	1
Dibromofluoromethane (Surr)	99		75 - 121					06/19/14 13:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-060914-SSH-1420

Date Collected: 06/09/14 10:11

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	30		15	0.96	ug/L		06/12/14 08:23	06/13/14 20:53	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 20:53	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-060914-SSH-1421

Date Collected: 06/09/14 11:16

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1500		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:26	1
Lead	2.3	J	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:26	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-060914-SSH-1422

Date Collected: 06/09/14 12:16

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.96	ug/L	—	06/12/14 08:23	06/13/14 21:34	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:34	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-060914-SSH-1423

Date Collected: 06/09/14 13:21

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.3	J	15	0.96	ug/L		06/12/14 08:23	06/13/14 21:42	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-060914-SSH-1424

Date Collected: 06/09/14 14:24

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	92		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:51	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:51	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1428

Date Collected: 06/10/14 10:26

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	23		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:59	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:59	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1429

Date Collected: 06/10/14 11:31

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1600		15	0.96	ug/L		06/12/14 08:23	06/13/14 22:15	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 22:15	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1430

Date Collected: 06/10/14 13:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	71		15	0.96	ug/L		06/12/14 08:23	06/13/14 22:24	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 22:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-060914-SSH-1420

Date Collected: 06/09/14 10:11

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	19		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:21	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:21	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-060914-SSH-1421

Date Collected: 06/09/14 11:16

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1500		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:30	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:30	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-060914-SSH-1422

Date Collected: 06/09/14 12:16

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.1	J	15	0.96	ug/L		06/12/14 08:23	06/13/14 21:38	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-060914-SSH-1423

Date Collected: 06/09/14 13:21

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2	J	15	0.96	ug/L		06/12/14 08:23	06/13/14 21:46	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-060914-SSH-1424

Date Collected: 06/09/14 14:24

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	110		15	0.96	ug/L		06/12/14 08:23	06/13/14 21:55	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 21:55	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1425

Lab Sample ID: 240-38391-6

Date Collected: 06/10/14 08:56

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	3.2	ug/L		06/12/14 08:55	06/13/14 16:07	1
Barium	24	J B	100	0.67	ug/L		06/12/14 08:55	06/13/14 16:07	1
Beryllium	1.0	U	1.0	0.46	ug/L		06/12/14 08:55	06/13/14 16:07	1
Cadmium	1.0	U	1.0	0.66	ug/L		06/12/14 08:55	06/13/14 16:07	1
Cobalt	7.0	U	7.0	1.7	ug/L		06/12/14 08:55	06/13/14 16:07	1
Chromium	5.0	U	5.0	2.2	ug/L		06/12/14 08:55	06/13/14 16:07	1
Iron	100	U	100	81	ug/L		06/12/14 08:55	06/13/14 16:07	1
Manganese	52		15	0.96	ug/L		06/12/14 08:55	06/13/14 16:07	1
Nickel	20	U	20	3.2	ug/L		06/12/14 08:55	06/13/14 16:07	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:55	06/13/14 16:07	1
Selenium	5.0	U	5.0	4.1	ug/L		06/12/14 08:55	06/13/14 16:07	1
Vanadium	4.0	U	4.0	2.4	ug/L		06/12/14 08:55	06/13/14 16:07	1
Zinc	5.8	J	20	5.0	ug/L		06/12/14 08:55	06/13/14 16:07	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1426

Lab Sample ID: 240-38391-7

Date Collected: 06/10/14 09:01

Matrix: Water

Date Received: 06/11/14 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	3.2	ug/L		06/12/14 08:55	06/13/14 16:35	1
Barium	24	J B	100	0.67	ug/L		06/12/14 08:55	06/13/14 16:35	1
Beryllium	1.0	U	1.0	0.46	ug/L		06/12/14 08:55	06/13/14 16:35	1
Cadmium	1.0	U	1.0	0.66	ug/L		06/12/14 08:55	06/13/14 16:35	1
Cobalt	7.0	U	7.0	1.7	ug/L		06/12/14 08:55	06/13/14 16:35	1
Chromium	5.0	U	5.0	2.2	ug/L		06/12/14 08:55	06/13/14 16:35	1
Iron	100	U	100	81	ug/L		06/12/14 08:55	06/13/14 16:35	1
Manganese	52		15	0.96	ug/L		06/12/14 08:55	06/13/14 16:35	1
Nickel	5.9	J	20	3.2	ug/L		06/12/14 08:55	06/13/14 16:35	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:55	06/13/14 16:35	1
Selenium	5.0	U	5.0	4.1	ug/L		06/12/14 08:55	06/13/14 16:35	1
Vanadium	4.0	U	4.0	2.4	ug/L		06/12/14 08:55	06/13/14 16:35	1
Zinc	8.8	J	20	5.0	ug/L		06/12/14 08:55	06/13/14 16:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1428

Date Collected: 06/10/14 10:26

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.6	J	15	0.96	ug/L		06/12/14 08:23	06/13/14 22:11	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 22:11	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1429

Date Collected: 06/10/14 11:31

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1700		15	0.96	ug/L		06/12/14 08:23	06/13/14 22:20	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 22:20	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1430

Date Collected: 06/10/14 13:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-11

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	61		15	0.96	ug/L		06/12/14 08:23	06/13/14 22:28	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 22:28	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1425

Date Collected: 06/10/14 08:56

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17	J	50	7.5	ug/L		06/12/14 08:55	06/13/14 11:04	1
Antimony	0.87	J	2.0	0.11	ug/L		06/12/14 08:55	06/13/14 11:04	1
Copper	5.1	B	2.0	0.24	ug/L		06/12/14 08:55	06/13/14 11:04	1
Thallium	1.0	U	1.0	0.40	ug/L		06/12/14 08:55	06/13/14 11:04	1
Silver	0.018	J B	0.20	0.0083	ug/L		06/12/14 08:55	06/13/14 11:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Client Sample ID: GW-12636-061014-SSH-1426

Date Collected: 06/10/14 09:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18	J	50	7.5	ug/L		06/12/14 08:55	06/13/14 12:41	1
Antimony	0.79	J	2.0	0.11	ug/L		06/12/14 08:55	06/13/14 12:41	1
Copper	4.9	B	2.0	0.24	ug/L		06/12/14 08:55	06/13/14 12:41	1
Thallium	1.0	U	1.0	0.40	ug/L		06/12/14 08:55	06/13/14 12:41	1
Silver	0.20	U	0.20	0.0083	ug/L		06/12/14 08:55	06/13/14 12:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1425

Date Collected: 06/10/14 08:56

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		06/12/14 15:05	06/13/14 10:47	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-061014-SSH-1426

Date Collected: 06/10/14 09:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L	—	06/12/14 15:05	06/13/14 11:25	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

General Chemistry

Client Sample ID: GW-12636-061014-SSH-1425

Date Collected: 06/10/14 08:56

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L			06/18/14 15:48	1
Cyanide, Total	0.0050	U	0.0050	0.0032	mg/L		06/19/14 12:07	06/19/14 16:11	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

General Chemistry

Client Sample ID: GW-12636-061014-SSH-1426

Date Collected: 06/10/14 09:01

Date Received: 06/11/14 09:30

Lab Sample ID: 240-38391-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L			06/18/14 15:48	1
Cyanide, Total	0.0050	U	0.0050	0.0032	mg/L		06/19/14 12:07	06/19/14 16:11	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

GC/MS VOA

Analysis Batch: 135377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-8	TB-12636-061014-SSH-1427	Total/NA	Water	8260B	
LCS 240-135377/5	Lab Control Sample	Total/NA	Water	8260B	
MB 240-135377/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 135446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Total/NA	Water	8260B	
240-38391-6 MS	GW-12636-061014-SSH-1425	Total/NA	Water	8260B	
240-38391-6 MSD	GW-12636-061014-SSH-1425	Total/NA	Water	8260B	
240-38391-7	GW-12636-061014-SSH-1426	Total/NA	Water	8260B	
LCS 240-135446/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-135446/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 134373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-1	GW-12636-060914-SSH-1420	Dissolved	Water	3005A	
240-38391-1	GW-12636-060914-SSH-1420	Total Recoverable	Water	3005A	
240-38391-1 MS	GW-12636-060914-SSH-1420	Total Recoverable	Water	3005A	
240-38391-1 MSD	GW-12636-060914-SSH-1420	Total Recoverable	Water	3005A	
240-38391-2	GW-12636-060914-SSH-1421	Dissolved	Water	3005A	
240-38391-2	GW-12636-060914-SSH-1421	Total Recoverable	Water	3005A	
240-38391-3	GW-12636-060914-SSH-1422	Dissolved	Water	3005A	
240-38391-3	GW-12636-060914-SSH-1422	Total Recoverable	Water	3005A	
240-38391-4	GW-12636-060914-SSH-1423	Dissolved	Water	3005A	
240-38391-4	GW-12636-060914-SSH-1423	Total Recoverable	Water	3005A	
240-38391-5	GW-12636-060914-SSH-1424	Dissolved	Water	3005A	
240-38391-5	GW-12636-060914-SSH-1424	Total Recoverable	Water	3005A	
240-38391-9	GW-12636-061014-SSH-1428	Dissolved	Water	3005A	
240-38391-9	GW-12636-061014-SSH-1428	Total Recoverable	Water	3005A	
240-38391-10	GW-12636-061014-SSH-1429	Dissolved	Water	3005A	
240-38391-10	GW-12636-061014-SSH-1429	Total Recoverable	Water	3005A	
240-38391-11	GW-12636-061014-SSH-1430	Dissolved	Water	3005A	
240-38391-11	GW-12636-061014-SSH-1430	Total Recoverable	Water	3005A	
LCS 240-134373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-134373/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 134384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Dissolved	Water	3005A	
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	3005A	
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	3005A	
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	3005A	
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	3005A	
240-38391-7	GW-12636-061014-SSH-1426	Dissolved	Water	3005A	
LCS 240-134384/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-134384/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-134384/1-A	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Metals (Continued)

Prep Batch: 134385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	
240-38391-7	GW-12636-061014-SSH-1426	Dissolved	Water	7470A	
LCS 240-134385/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-134385/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 134577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-1	GW-12636-060914-SSH-1420	Dissolved	Water	6010B	134373
240-38391-1	GW-12636-060914-SSH-1420	Total Recoverable	Water	6010B	134373
240-38391-1 MS	GW-12636-060914-SSH-1420	Total Recoverable	Water	6010B	134373
240-38391-1 MSD	GW-12636-060914-SSH-1420	Total Recoverable	Water	6010B	134373
240-38391-2	GW-12636-060914-SSH-1421	Dissolved	Water	6010B	134373
240-38391-2	GW-12636-060914-SSH-1421	Total Recoverable	Water	6010B	134373
240-38391-3	GW-12636-060914-SSH-1422	Dissolved	Water	6010B	134373
240-38391-3	GW-12636-060914-SSH-1422	Total Recoverable	Water	6010B	134373
240-38391-4	GW-12636-060914-SSH-1423	Dissolved	Water	6010B	134373
240-38391-4	GW-12636-060914-SSH-1423	Total Recoverable	Water	6010B	134373
240-38391-5	GW-12636-060914-SSH-1424	Dissolved	Water	6010B	134373
240-38391-5	GW-12636-060914-SSH-1424	Total Recoverable	Water	6010B	134373
240-38391-6	GW-12636-061014-SSH-1425	Dissolved	Water	6010B	134384
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	6010B	134384
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	6010B	134384
240-38391-7	GW-12636-061014-SSH-1426	Dissolved	Water	6010B	134384
240-38391-9	GW-12636-061014-SSH-1428	Dissolved	Water	6010B	134373
240-38391-9	GW-12636-061014-SSH-1428	Total Recoverable	Water	6010B	134373
240-38391-10	GW-12636-061014-SSH-1429	Dissolved	Water	6010B	134373
240-38391-10	GW-12636-061014-SSH-1429	Total Recoverable	Water	6010B	134373
240-38391-11	GW-12636-061014-SSH-1430	Dissolved	Water	6010B	134373
240-38391-11	GW-12636-061014-SSH-1430	Total Recoverable	Water	6010B	134373
LCS 240-134373/2-A	Lab Control Sample	Total Recoverable	Water	6010B	134373
LCS 240-134384/2-A	Lab Control Sample	Total Recoverable	Water	6010B	134384
MB 240-134373/1-A	Method Blank	Total Recoverable	Water	6010B	134373
MB 240-134384/1-A	Method Blank	Total Recoverable	Water	6010B	134384

Analysis Batch: 134585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	134385
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	134385
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	7470A	134385
240-38391-7	GW-12636-061014-SSH-1426	Dissolved	Water	7470A	134385
LCS 240-134385/2-A	Lab Control Sample	Total/NA	Water	7470A	134385
MB 240-134385/1-A	Method Blank	Total/NA	Water	7470A	134385

Analysis Batch: 134751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Dissolved	Water	6020	134384
240-38391-6 MS	GW-12636-061014-SSH-1425	Dissolved	Water	6020	134384
240-38391-6 MSD	GW-12636-061014-SSH-1425	Dissolved	Water	6020	134384
240-38391-7	GW-12636-061014-SSH-1426	Dissolved	Water	6020	134384

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Metals (Continued)

Analysis Batch: 134751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-134384/3-A	Lab Control Sample	Total Recoverable	Water	6020	134384
MB 240-134384/1-A	Method Blank	Total Recoverable	Water	6020	134384

General Chemistry

Analysis Batch: 135253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Total/NA	Water	9012A	
240-38391-7	GW-12636-061014-SSH-1426	Total/NA	Water	9012A	

Prep Batch: 135403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Total/NA	Water	9012A	
240-38391-7	GW-12636-061014-SSH-1426	Total/NA	Water	9012A	
LCS 240-135403/2-A	Lab Control Sample	Total/NA	Water	9012A	
MB 240-135403/1-A	Method Blank	Total/NA	Water	9012A	

Analysis Batch: 135473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-38391-6	GW-12636-061014-SSH-1425	Total/NA	Water	9012A	135403
240-38391-7	GW-12636-061014-SSH-1426	Total/NA	Water	9012A	135403
LCS 240-135403/2-A	Lab Control Sample	Total/NA	Water	9012A	135403
MB 240-135403/1-A	Method Blank	Total/NA	Water	9012A	135403
MRL 240-135473/6	Lab Control Sample	Total/NA	Water	9012A	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: MB 240-135377/6

Matrix: Water

Analysis Batch: 135377

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			06/19/14 13:03	1
Benzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/19/14 13:03	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/19/14 13:03	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/19/14 13:03	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/19/14 13:03	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/19/14 13:03	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/19/14 13:03	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/19/14 13:03	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/19/14 13:03	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/19/14 13:03	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/19/14 13:03	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/19/14 13:03	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/19/14 13:03	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/19/14 13:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			06/19/14 13:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/19/14 13:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/19/14 13:03	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/19/14 13:03	1
2-Hexanone	10	U	10	0.41	ug/L			06/19/14 13:03	1
Methylene Chloride	2.22	J	5.0	0.33	ug/L			06/19/14 13:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/19/14 13:03	1
Styrene	1.0	U	1.0	0.11	ug/L			06/19/14 13:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/19/14 13:03	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/19/14 13:03	1
Toluene	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/19/14 13:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.096	ug/L			06/19/14 13:03	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/19/14 13:03	1
Xylenes, Total	2.0	U	2.0	0.14	ug/L			06/19/14 13:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/19/14 13:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/19/14 13:03	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/19/14 13:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/19/14 13:03	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/19/14 13:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/19/14 13:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/19/14 13:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/19/14 13:03	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Methyl acetate	10	U	10	0.38	ug/L			06/19/14 13:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/19/14 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/19/14 13:03	1
1,2,4-Trichlorobenzene	0.228	J	1.0	0.15	ug/L			06/19/14 13:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/19/14 13:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/19/14 13:03	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: MB 240-135377/6

Matrix: Water

Analysis Batch: 135377

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/19/14 13:03	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/19/14 13:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129					06/19/14 13:03	1
4-Bromofluorobenzene (Surr)	89		66 - 120					06/19/14 13:03	1
Toluene-d8 (Surr)	97		74 - 120					06/19/14 13:03	1
Dibromofluoromethane (Surr)	99		75 - 121					06/19/14 13:03	1

Lab Sample ID: LCS 240-135377/5

Matrix: Water

Analysis Batch: 135377

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	33.5		ug/L		67	43 - 136
Benzene	25.0	24.7		ug/L		99	80 - 120
Bromodichloromethane	25.0	24.3		ug/L		97	72 - 121
Bromoform	25.0	24.8		ug/L		99	40 - 131
Bromomethane	25.0	19.0		ug/L		76	11 - 185
2-Butanone (MEK)	50.0	36.2		ug/L		72	60 - 126
Carbon disulfide	25.0	23.9		ug/L		96	62 - 142
Carbon tetrachloride	25.0	28.7		ug/L		115	66 - 128
Chlorobenzene	25.0	26.0		ug/L		104	80 - 120
Chloroethane	25.0	19.1		ug/L		77	25 - 153
Chloroform	25.0	24.7		ug/L		99	79 - 120
Chloromethane	25.0	16.1		ug/L		64	44 - 126
1,1-Dichloroethane	25.0	24.1		ug/L		96	80 - 120
1,2-Dichloroethane	25.0	22.7		ug/L		91	71 - 127
1,1-Dichloroethene	25.0	25.2		ug/L		101	78 - 131
1,2-Dichloropropane	25.0	24.0		ug/L		96	80 - 120
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	76 - 120
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	61 - 120
trans-1,3-Dichloropropene	25.0	22.6		ug/L		90	58 - 120
Ethylbenzene	25.0	26.5		ug/L		106	80 - 120
2-Hexanone	50.0	34.2		ug/L		68	55 - 133
Methylene Chloride	25.0	26.6		ug/L		106	66 - 131
4-Methyl-2-pentanone (MIBK)	50.0	37.4		ug/L		75	63 - 128
Styrene	25.0	26.4		ug/L		106	79 - 120
1,1,2,2-Tetrachloroethane	25.0	21.2		ug/L		85	68 - 120
Tetrachloroethene	25.0	28.7		ug/L		115	79 - 120
Toluene	25.0	25.2		ug/L		101	80 - 120
Trichloroethene	25.0	29.3		ug/L		117	76 - 120
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	72 - 120
Vinyl chloride	25.0	18.5		ug/L		74	53 - 127
Xylenes, Total	50.0	53.9		ug/L		108	80 - 120
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	74 - 120
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	80 - 120
Cyclohexane	25.0	24.2		ug/L		97	54 - 121

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-135377/5

Matrix: Water

Analysis Batch: 135377

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	25.0	28.2		ug/L		113	42 - 136
1,2-Dibromoethane	25.0	24.7		ug/L		99	79 - 120
Dichlorodifluoromethane	25.0	14.1		ug/L		56	19 - 129
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	80 - 120
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	80 - 120
Isopropylbenzene	25.0	27.5		ug/L		110	75 - 120
Methyl acetate	125	92.2		ug/L		74	58 - 131
Methyl tert-butyl ether	25.0	19.3		ug/L		77	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.2		ug/L		117	74 - 151
1,2,4-Trichlorobenzene	25.0	27.8		ug/L		111	48 - 135
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 120
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120
Trichlorofluoromethane	25.0	24.7		ug/L		99	49 - 157
Dibromochloromethane	25.0	27.2		ug/L		109	64 - 120
Methylcyclohexane	25.0	24.4		ug/L		97	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	77		63 - 129
4-Bromofluorobenzene (Surr)	91		66 - 120
Toluene-d8 (Surr)	99		74 - 120
Dibromofluoromethane (Surr)	99		75 - 121

Lab Sample ID: MB 240-135446/6

Matrix: Water

Analysis Batch: 135446

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			06/20/14 01:12	1
Benzene	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			06/20/14 01:12	1
Bromoform	1.0	U	1.0	0.64	ug/L			06/20/14 01:12	1
Bromomethane	1.0	U	1.0	0.41	ug/L			06/20/14 01:12	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			06/20/14 01:12	1
Carbon disulfide	5.0	U	5.0	0.13	ug/L			06/20/14 01:12	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 01:12	1
Chloroethane	1.0	U	1.0	0.29	ug/L			06/20/14 01:12	1
Chloroform	1.0	U	1.0	0.16	ug/L			06/20/14 01:12	1
Chloromethane	1.0	U	1.0	0.30	ug/L			06/20/14 01:12	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			06/20/14 01:12	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 01:12	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 01:12	1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L			06/20/14 01:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.12	ug/L			06/20/14 01:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			06/20/14 01:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			06/20/14 01:12	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: MB 240-135446/6

Matrix: Water

Analysis Batch: 135446

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.17	ug/L			06/20/14 01:12	1
2-Hexanone	10	U	10	0.41	ug/L			06/20/14 01:12	1
Methylene Chloride	0.651	J	5.0	0.33	ug/L			06/20/14 01:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			06/20/14 01:12	1
Styrene	1.0	U	1.0	0.11	ug/L			06/20/14 01:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			06/20/14 01:12	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			06/20/14 01:12	1
Toluene	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 01:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.096	ug/L			06/20/14 01:12	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			06/20/14 01:12	1
Xylenes, Total	2.0	U	2.0	0.14	ug/L			06/20/14 01:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			06/20/14 01:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			06/20/14 01:12	1
Cyclohexane	1.0	U	1.0	0.12	ug/L			06/20/14 01:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.67	ug/L			06/20/14 01:12	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			06/20/14 01:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			06/20/14 01:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			06/20/14 01:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/20/14 01:12	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
Methyl acetate	10	U	10	0.38	ug/L			06/20/14 01:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			06/20/14 01:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.28	ug/L			06/20/14 01:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			06/20/14 01:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			06/20/14 01:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			06/20/14 01:12	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			06/20/14 01:12	1
Methylcyclohexane	1.0	U	1.0	0.13	ug/L			06/20/14 01:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		63 - 129		06/20/14 01:12	1
4-Bromofluorobenzene (Surr)	77		66 - 120		06/20/14 01:12	1
Toluene-d8 (Surr)	84		74 - 120		06/20/14 01:12	1
Dibromofluoromethane (Surr)	92		75 - 121		06/20/14 01:12	1

Lab Sample ID: LCS 240-135446/4

Matrix: Water

Analysis Batch: 135446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	12.9		ug/L		64	43 - 136
Benzene	10.0	9.51		ug/L		95	80 - 120
Bromodichloromethane	10.0	9.09		ug/L		91	72 - 121
Bromoform	10.0	8.46		ug/L		85	40 - 131
Bromomethane	10.0	9.95		ug/L		99	11 - 185

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-135446/4

Matrix: Water

Analysis Batch: 135446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	20.0	15.9		ug/L		79	60 - 126
Carbon disulfide	10.0	9.20		ug/L		92	62 - 142
Carbon tetrachloride	10.0	9.21		ug/L		92	66 - 128
Chlorobenzene	10.0	9.29		ug/L		93	80 - 120
Chloroethane	10.0	10.1		ug/L		101	25 - 153
Chloroform	10.0	9.72		ug/L		97	79 - 120
Chloromethane	10.0	5.49		ug/L		55	44 - 126
1,1-Dichloroethane	10.0	9.64		ug/L		96	80 - 120
1,2-Dichloroethane	10.0	9.00		ug/L		90	71 - 127
1,1-Dichloroethene	10.0	9.73		ug/L		97	78 - 131
1,2-Dichloropropane	10.0	9.07		ug/L		91	80 - 120
1,2,4-Trimethylbenzene	10.0	8.39		ug/L		84	76 - 120
cis-1,3-Dichloropropene	10.0	9.20		ug/L		92	61 - 120
trans-1,3-Dichloropropene	10.0	9.55		ug/L		95	58 - 120
Ethylbenzene	10.0	8.79		ug/L		88	80 - 120
2-Hexanone	20.0	15.2		ug/L		76	55 - 133
Methylene Chloride	10.0	10.3		ug/L		103	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	16.9		ug/L		84	63 - 128
Styrene	10.0	9.61		ug/L		96	79 - 120
1,1,2,2-Tetrachloroethane	10.0	8.60		ug/L		86	68 - 120
Tetrachloroethene	10.0	8.72		ug/L		87	79 - 120
Toluene	10.0	9.37		ug/L		94	80 - 120
Trichloroethene	10.0	9.54		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	10.0	8.44		ug/L		84	72 - 120
Vinyl chloride	10.0	8.23		ug/L		82	53 - 127
Xylenes, Total	20.0	18.4		ug/L		92	80 - 120
1,1,1-Trichloroethane	10.0	9.26		ug/L		93	74 - 120
1,1,2-Trichloroethane	10.0	9.38		ug/L		94	80 - 120
Cyclohexane	10.0	7.43		ug/L		74	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	8.91		ug/L		89	42 - 136
1,2-Dibromoethane	10.0	9.48		ug/L		95	79 - 120
Dichlorodifluoromethane	10.0	3.03		ug/L		30	19 - 129
cis-1,2-Dichloroethene	10.0	9.59		ug/L		96	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	8.86		ug/L		89	75 - 120
Methyl acetate	50.0	39.2		ug/L		78	58 - 131
Methyl tert-butyl ether	10.0	9.56		ug/L		96	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.60		ug/L		96	74 - 151
1,2,4-Trichlorobenzene	10.0	7.58		ug/L		76	48 - 135
1,2-Dichlorobenzene	10.0	8.92		ug/L		89	80 - 120
1,3-Dichlorobenzene	10.0	8.67		ug/L		87	80 - 120
1,4-Dichlorobenzene	10.0	8.68		ug/L		87	80 - 120
Trichlorofluoromethane	10.0	9.25		ug/L		93	49 - 157
Dibromochloromethane	10.0	9.40		ug/L		94	64 - 120
Methylcyclohexane	10.0	8.29		ug/L		83	56 - 127

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-135446/4

Matrix: Water

Analysis Batch: 135446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
4-Bromofluorobenzene (Surr)	86		66 - 120
Toluene-d8 (Surr)	91		74 - 120
Dibromofluoromethane (Surr)	89		75 - 121

Lab Sample ID: 240-38391-6 MS

Matrix: Water

Analysis Batch: 135446

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	12.9		ug/L		65	33 - 145
Benzene	1.0	U	10.0	9.76		ug/L		98	72 - 121
Bromodichloromethane	1.0	U	10.0	8.98		ug/L		90	67 - 120
Bromoform	1.0	U	10.0	8.39		ug/L		84	32 - 128
Bromomethane	1.0	U	10.0	11.8		ug/L		118	10 - 186
2-Butanone (MEK)	10	U	20.0	14.2		ug/L		71	54 - 129
Carbon disulfide	5.0	U	10.0	9.46		ug/L		95	57 - 147
Carbon tetrachloride	1.0	U	10.0	9.80		ug/L		98	59 - 129
Chlorobenzene	1.0	U	10.0	9.74		ug/L		97	80 - 120
Chloroethane	1.0	U	10.0	11.2		ug/L		112	21 - 165
Chloroform	1.0	U	10.0	9.90		ug/L		99	76 - 120
Chloromethane	1.0	U	10.0	5.37		ug/L		54	33 - 132
1,1-Dichloroethane	1.0	U	10.0	9.70		ug/L		97	79 - 120
1,2-Dichloroethane	1.0	U	10.0	9.06		ug/L		91	68 - 129
1,1-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	74 - 135
1,2-Dichloropropane	1.0	U	10.0	9.25		ug/L		93	78 - 120
1,2,4-Trimethylbenzene	1.0	U	10.0	8.28		ug/L		83	67 - 124
cis-1,3-Dichloropropene	1.0	U	10.0	8.54		ug/L		85	51 - 120
trans-1,3-Dichloropropene	1.0	U	10.0	9.28		ug/L		93	46 - 120
Ethylbenzene	1.0	U	10.0	9.01		ug/L		90	75 - 120
2-Hexanone	10	U	20.0	14.2		ug/L		71	47 - 139
Methylene Chloride	5.0	U	10.0	9.71		ug/L		97	63 - 128
4-Methyl-2-pentanone (MIBK)	10	U	20.0	14.7		ug/L		73	56 - 131
Styrene	1.0	U	10.0	9.93		ug/L		99	71 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.31		ug/L		83	63 - 122
Tetrachloroethene	1.0	U	10.0	8.98		ug/L		90	70 - 120
Toluene	1.0	U	10.0	9.91		ug/L		99	78 - 120
Trichloroethene	1.0	U	10.0	9.65		ug/L		97	66 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	8.20		ug/L		82	63 - 121
Vinyl chloride	1.0	U	10.0	8.18		ug/L		82	49 - 130
Xylenes, Total	2.0	U	20.0	18.9		ug/L		94	76 - 120
1,1,1-Trichloroethane	1.0	U	10.0	9.59		ug/L		96	68 - 121
1,1,2-Trichloroethane	1.0	U	10.0	9.74		ug/L		97	75 - 120
Cyclohexane	1.0	U	10.0	6.91		ug/L		69	49 - 123
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.49		ug/L		85	32 - 139
1,2-Dibromoethane	1.0	U	10.0	9.40		ug/L		94	74 - 120
Dichlorodifluoromethane	1.0	U	10.0	2.80		ug/L		28	17 - 128
cis-1,2-Dichloroethene	1.0	U	10.0	9.55		ug/L		96	70 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: 240-38391-6 MS

Matrix: Water

Analysis Batch: 135446

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	80 - 120
Isopropylbenzene	1.0	U	10.0	8.93		ug/L		89	68 - 120
Methyl acetate	10	U	50.0	33.2		ug/L		66	47 - 130
Methyl tert-butyl ether	1.0	U	10.0	9.15		ug/L		92	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.85		ug/L		88	70 - 152
1,2,4-Trichlorobenzene	1.0	U	10.0	7.09		ug/L		71	38 - 138
1,2-Dichlorobenzene	1.0	U	10.0	9.11		ug/L		91	75 - 120
1,3-Dichlorobenzene	1.0	U	10.0	8.58		ug/L		86	73 - 120
1,4-Dichlorobenzene	1.0	U	10.0	8.56		ug/L		86	75 - 120
Trichlorofluoromethane	1.0	U	10.0	9.66		ug/L		97	46 - 157
Dibromochloromethane	1.0	U	10.0	9.49		ug/L		95	56 - 120
Methylcyclohexane	1.0	U	10.0	6.93		ug/L		69	49 - 127
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	81		63 - 129						
4-Bromofluorobenzene (Surr)	86		66 - 120						
Toluene-d8 (Surr)	93		74 - 120						
Dibromofluoromethane (Surr)	88		75 - 121						

Lab Sample ID: 240-38391-6 MSD

Matrix: Water

Analysis Batch: 135446

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	13.2		ug/L		66	33 - 145	2	30
Benzene	1.0	U	10.0	9.57		ug/L		96	72 - 121	2	30
Bromodichloromethane	1.0	U	10.0	8.96		ug/L		90	67 - 120	0	30
Bromoform	1.0	U	10.0	8.34		ug/L		83	32 - 128	1	30
Bromomethane	1.0	U	10.0	12.7		ug/L		127	10 - 186	7	30
2-Butanone (MEK)	10	U	20.0	14.3		ug/L		72	54 - 129	1	30
Carbon disulfide	5.0	U	10.0	9.46		ug/L		95	57 - 147	0	30
Carbon tetrachloride	1.0	U	10.0	9.39		ug/L		94	59 - 129	4	30
Chlorobenzene	1.0	U	10.0	9.24		ug/L		92	80 - 120	5	30
Chloroethane	1.0	U	10.0	11.8		ug/L		118	21 - 165	5	30
Chloroform	1.0	U	10.0	9.72		ug/L		97	76 - 120	2	30
Chloromethane	1.0	U	10.0	5.71		ug/L		57	33 - 132	6	30
1,1-Dichloroethane	1.0	U	10.0	9.49		ug/L		95	79 - 120	2	30
1,2-Dichloroethane	1.0	U	10.0	8.86		ug/L		89	68 - 129	2	30
1,1,1-Dichloroethane	1.0	U	10.0	10.1		ug/L		101	74 - 135	1	30
1,2-Dichloropropane	1.0	U	10.0	9.22		ug/L		92	78 - 120	0	30
1,2,4-Trimethylbenzene	1.0	U	10.0	7.98		ug/L		80	67 - 124	4	30
cis-1,3-Dichloropropene	1.0	U	10.0	8.72		ug/L		87	51 - 120	2	30
trans-1,3-Dichloropropene	1.0	U	10.0	9.20		ug/L		92	46 - 120	1	30
Ethylbenzene	1.0	U	10.0	8.49		ug/L		85	75 - 120	6	30
2-Hexanone	10	U	20.0	14.2		ug/L		71	47 - 139	0	30
Methylene Chloride	5.0	U	10.0	9.97		ug/L		100	63 - 128	3	30
4-Methyl-2-pentanone (MIBK)	10	U	20.0	15.5		ug/L		78	56 - 131	6	30

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: 240-38391-6 MSD

Matrix: Water

Analysis Batch: 135446

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene	1.0	U	10.0	9.42		ug/L		94	71 - 120	5	30
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.32		ug/L		83	63 - 122	0	30
Tetrachloroethene	1.0	U	10.0	8.20		ug/L		82	70 - 120	9	30
Toluene	1.0	U	10.0	9.18		ug/L		92	78 - 120	8	30
Trichloroethene	1.0	U	10.0	9.22		ug/L		92	66 - 120	5	30
1,3,5-Trimethylbenzene	1.0	U	10.0	7.86		ug/L		79	63 - 121	4	30
Vinyl chloride	1.0	U	10.0	8.77		ug/L		88	49 - 130	7	30
Xylenes, Total	2.0	U	20.0	17.7		ug/L		89	76 - 120	6	30
1,1,1-Trichloroethane	1.0	U	10.0	9.53		ug/L		95	68 - 121	1	30
1,1,2-Trichloroethane	1.0	U	10.0	9.52		ug/L		95	75 - 120	2	30
Cyclohexane	1.0	U	10.0	6.62		ug/L		66	49 - 123	4	30
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.41		ug/L		84	32 - 139	1	30
1,2-Dibromoethane	1.0	U	10.0	9.12		ug/L		91	74 - 120	3	30
Dichlorodifluoromethane	1.0	U	10.0	2.89		ug/L		29	17 - 128	3	30
cis-1,2-Dichloroethene	1.0	U	10.0	9.52		ug/L		95	70 - 120	0	30
trans-1,2-Dichloroethene	1.0	U	10.0	10.1		ug/L		101	80 - 120	3	30
Isopropylbenzene	1.0	U	10.0	8.31		ug/L		83	68 - 120	7	30
Methyl acetate	10	U	50.0	33.3		ug/L		67	47 - 130	0	30
Methyl tert-butyl ether	1.0	U	10.0	9.43		ug/L		94	46 - 144	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.58		ug/L		86	70 - 152	3	30
1,2,4-Trichlorobenzene	1.0	U	10.0	7.32		ug/L		73	38 - 138	3	30
1,2-Dichlorobenzene	1.0	U	10.0	8.75		ug/L		87	75 - 120	4	30
1,3-Dichlorobenzene	1.0	U	10.0	8.35		ug/L		83	73 - 120	3	30
1,4-Dichlorobenzene	1.0	U	10.0	8.33		ug/L		83	75 - 120	3	30
Trichlorofluoromethane	1.0	U	10.0	10.0		ug/L		100	46 - 157	4	30
Dibromochloromethane	1.0	U	10.0	9.17		ug/L		92	56 - 120	3	30
Methylcyclohexane	1.0	U	10.0	6.84		ug/L		68	49 - 127	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		63 - 129
4-Bromofluorobenzene (Surr)	86		66 - 120
Toluene-d8 (Surr)	90		74 - 120
Dibromofluoromethane (Surr)	88		75 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-134373/1-A

Matrix: Water

Analysis Batch: 134577

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.96	ug/L		06/12/14 08:23	06/13/14 20:45	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:23	06/13/14 20:45	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-134373/2-A

Matrix: Water

Analysis Batch: 134577

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	516		ug/L		103	80 - 120
Lead	500	512		ug/L		102	80 - 120

Lab Sample ID: 240-38391-1 MS

Matrix: Water

Analysis Batch: 134577

Client Sample ID: GW-12636-060914-SSH-1420

Prep Type: Total Recoverable

Prep Batch: 134373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	30		500	549		ug/L		104	75 - 125
Lead	3.0	U	500	503		ug/L		101	75 - 125

Lab Sample ID: 240-38391-1 MSD

Matrix: Water

Analysis Batch: 134577

Client Sample ID: GW-12636-060914-SSH-1420

Prep Type: Total Recoverable

Prep Batch: 134373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	30		500	550		ug/L		104	75 - 125	0	20
Lead	3.0	U	500	502		ug/L		100	75 - 125	0	20

Lab Sample ID: MB 240-134384/1-A

Matrix: Water

Analysis Batch: 134577

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	3.2	ug/L		06/12/14 08:55	06/13/14 15:59	1
Barium	1.49	J	100	0.67	ug/L		06/12/14 08:55	06/13/14 15:59	1
Beryllium	1.0	U	1.0	0.46	ug/L		06/12/14 08:55	06/13/14 15:59	1
Cadmium	1.0	U	1.0	0.66	ug/L		06/12/14 08:55	06/13/14 15:59	1
Cobalt	7.0	U	7.0	1.7	ug/L		06/12/14 08:55	06/13/14 15:59	1
Chromium	5.0	U	5.0	2.2	ug/L		06/12/14 08:55	06/13/14 15:59	1
Iron	100	U	100	81	ug/L		06/12/14 08:55	06/13/14 15:59	1
Manganese	15	U	15	0.96	ug/L		06/12/14 08:55	06/13/14 15:59	1
Nickel	20	U	20	3.2	ug/L		06/12/14 08:55	06/13/14 15:59	1
Lead	3.0	U	3.0	1.9	ug/L		06/12/14 08:55	06/13/14 15:59	1
Selenium	5.0	U	5.0	4.1	ug/L		06/12/14 08:55	06/13/14 15:59	1
Vanadium	4.0	U	4.0	2.4	ug/L		06/12/14 08:55	06/13/14 15:59	1
Zinc	20	U	20	5.0	ug/L		06/12/14 08:55	06/13/14 15:59	1

Lab Sample ID: LCS 240-134384/2-A

Matrix: Water

Analysis Batch: 134577

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	2070		ug/L		103	80 - 120
Barium	2000	1930		ug/L		97	80 - 120
Beryllium	50.0	48.2		ug/L		96	80 - 120
Cadmium	50.0	52.7		ug/L		105	80 - 120
Cobalt	500	508		ug/L		102	80 - 120
Chromium	200	198		ug/L		99	80 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-134384/2-A

Matrix: Water

Analysis Batch: 134577

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1000		ug/L		100	80 - 120
Manganese	500	501		ug/L		100	80 - 120
Nickel	500	516		ug/L		103	80 - 120
Lead	500	499		ug/L		100	80 - 120
Selenium	2000	2130		ug/L		107	80 - 120
Vanadium	500	490		ug/L		98	80 - 120
Zinc	500	523		ug/L		105	80 - 120

Lab Sample ID: 240-38391-6 MS

Matrix: Water

Analysis Batch: 134577

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134384

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.0	U	2000	2140		ug/L		107	75 - 125
Barium	24	J B	2000	2000		ug/L		99	75 - 125
Beryllium	1.0	U	50.0	49.5		ug/L		99	75 - 125
Cadmium	1.0	U	50.0	53.9		ug/L		108	75 - 125
Cobalt	7.0	U	500	527		ug/L		105	75 - 125
Chromium	5.0	U	200	203		ug/L		102	75 - 125
Iron	100	U	1000	1030		ug/L		103	75 - 125
Manganese	52		500	557		ug/L		101	75 - 125
Nickel	20	U	500	535		ug/L		107	75 - 125
Lead	3.0	U	500	503		ug/L		101	75 - 125
Selenium	5.0	U	2000	2180		ug/L		109	75 - 125
Vanadium	4.0	U	500	510		ug/L		102	75 - 125
Zinc	5.8	J	500	543		ug/L		107	75 - 125

Lab Sample ID: 240-38391-6 MSD

Matrix: Water

Analysis Batch: 134577

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134384

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.0	U	2000	2170		ug/L		108	75 - 125	1	20
Barium	24	J B	2000	2020		ug/L		100	75 - 125	1	20
Beryllium	1.0	U	50.0	50.0		ug/L		100	75 - 125	1	20
Cadmium	1.0	U	50.0	54.4		ug/L		109	75 - 125	1	20
Cobalt	7.0	U	500	530		ug/L		106	75 - 125	1	20
Chromium	5.0	U	200	204		ug/L		102	75 - 125	1	20
Iron	100	U	1000	1040		ug/L		104	75 - 125	1	20
Manganese	52		500	564		ug/L		102	75 - 125	1	20
Nickel	20	U	500	538		ug/L		108	75 - 125	0	20
Lead	3.0	U	500	507		ug/L		101	75 - 125	1	20
Selenium	5.0	U	2000	2220		ug/L		111	75 - 125	2	20
Vanadium	4.0	U	500	509		ug/L		102	75 - 125	0	20
Zinc	5.8	J	500	546		ug/L		108	75 - 125	1	20

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-134384/1-A

Matrix: Water

Analysis Batch: 134751

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	7.5	ug/L		06/12/14 08:55	06/13/14 10:56	1
Antimony	2.0	U	2.0	0.11	ug/L		06/12/14 08:55	06/13/14 10:56	1
Copper	1.10	J	2.0	0.24	ug/L		06/12/14 08:55	06/13/14 10:56	1
Thallium	1.0	U	1.0	0.40	ug/L		06/12/14 08:55	06/13/14 10:56	1
Silver	0.0100	J	0.20	0.0083	ug/L		06/12/14 08:55	06/13/14 10:56	1

Lab Sample ID: LCS 240-134384/3-A

Matrix: Water

Analysis Batch: 134751

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9540		ug/L		95	80 - 120
Antimony	100	92.6		ug/L		93	80 - 120
Copper	1000	1050		ug/L		105	80 - 120
Thallium	250	241		ug/L		97	80 - 120
Silver	100	95.3		ug/L		95	80 - 120

Lab Sample ID: 240-38391-6 MS

Matrix: Water

Analysis Batch: 134751

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134384

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	17	J	10000	9970		ug/L		100	63 - 128
Antimony	0.87	J	100	97.7		ug/L		97	44 - 153
Copper	5.1	B	1000	1060		ug/L		106	60 - 123
Thallium	1.0	U	250	243		ug/L		97	69 - 117
Silver	0.018	J B	100	100		ug/L		100	10 - 139

Lab Sample ID: 240-38391-6 MSD

Matrix: Water

Analysis Batch: 134751

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134384

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	17	J	10000	9450		ug/L		94	63 - 128	5	20
Antimony	0.87	J	100	96.2		ug/L		95	44 - 153	2	20
Copper	5.1	B	1000	1030		ug/L		102	60 - 123	3	20
Thallium	1.0	U	250	236		ug/L		94	69 - 117	3	20
Silver	0.018	J B	100	98.5		ug/L		99	10 - 139	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-134385/1-A

Matrix: Water

Analysis Batch: 134585

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 134385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		06/12/14 15:05	06/13/14 10:42	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

Lab Sample ID: LCS 240-134385/2-A

Matrix: Water

Analysis Batch: 134585

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 134385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.38		ug/L		88	81 - 123

Lab Sample ID: 240-38391-6 MS

Matrix: Water

Analysis Batch: 134585

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.865		ug/L		87	69 - 134

Lab Sample ID: 240-38391-6 MSD

Matrix: Water

Analysis Batch: 134585

Client Sample ID: GW-12636-061014-SSH-1425

Prep Type: Dissolved

Prep Batch: 134385

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.864		ug/L		86	69 - 134	0	20

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

Lab Sample ID: MB 240-135403/1-A

Matrix: Water

Analysis Batch: 135473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0050	U	0.0050	0.0032	mg/L		06/19/14 12:07	06/19/14 16:11	1

Lab Sample ID: LCS 240-135403/2-A

Matrix: Water

Analysis Batch: 135473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0168	0.0148		mg/L		88	69 - 118

Lab Sample ID: MRL 240-135473/6

Matrix: Water

Analysis Batch: 135473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0119		mg/L		119	70 - 130

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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 (63-129)	BFB (66-120)	TOL (74-120)	DBFM (75-121)
240-38391-6	GW-12636-061014-SSH-1425	87	72	85	92
240-38391-6 MS	GW-12636-061014-SSH-1425	81	86	93	88
240-38391-6 MSD	GW-12636-061014-SSH-1425	80	86	90	88
240-38391-7	GW-12636-061014-SSH-1426	87	75	83	92
240-38391-8	TB-12636-061014-SSH-1427	83	90	98	99
LCS 240-135377/5	Lab Control Sample	77	91	99	99
LCS 240-135446/4	Lab Control Sample	81	86	91	89
MB 240-135377/6	Method Blank	82	89	97	99
MB 240-135446/6	Method Blank	86	77	84	92

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Client Sample ID: GW-12636-060914-SSH-1420

Lab Sample ID: 240-38391-1

Date Collected: 06/09/14 10:11

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 21:21	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 20:53	KLC	TAL CAN

Client Sample ID: GW-12636-060914-SSH-1421

Lab Sample ID: 240-38391-2

Date Collected: 06/09/14 11:16

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 21:30	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 21:26	KLC	TAL CAN

Client Sample ID: GW-12636-060914-SSH-1422

Lab Sample ID: 240-38391-3

Date Collected: 06/09/14 12:16

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 21:38	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 21:34	KLC	TAL CAN

Client Sample ID: GW-12636-060914-SSH-1423

Lab Sample ID: 240-38391-4

Date Collected: 06/09/14 13:21

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 21:46	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 21:42	KLC	TAL CAN

Client Sample ID: GW-12636-060914-SSH-1424

Lab Sample ID: 240-38391-5

Date Collected: 06/09/14 14:24

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 21:55	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Client Sample ID: GW-12636-060914-SSH-1424

Lab Sample ID: 240-38391-5

Date Collected: 06/09/14 14:24

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1	134577	06/13/14 21:51	KLC	TAL CAN

Client Sample ID: GW-12636-061014-SSH-1425

Lab Sample ID: 240-38391-6

Date Collected: 06/10/14 08:56

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	135446	06/20/14 08:42	LRW	TAL CAN
Dissolved	Prep	3005A			134384	06/12/14 08:55	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 16:07	KLC	TAL CAN
Dissolved	Prep	3005A			134384	06/12/14 08:55	LPM	TAL CAN
Dissolved	Analysis	6020		1	134751	06/13/14 11:04	RKT	TAL CAN
Dissolved	Prep	7470A			134385	06/12/14 15:05	LPM	TAL CAN
Dissolved	Analysis	7470A		1	134585	06/13/14 10:47	AMM2	TAL CAN
Total/NA	Analysis	9012A		1	135253	06/18/14 15:48	LKG	TAL CAN
Total/NA	Prep	9012A			135403	06/19/14 12:07	NJE	TAL CAN
Total/NA	Analysis	9012A		1	135473	06/19/14 16:11	NJE	TAL CAN

Client Sample ID: GW-12636-061014-SSH-1426

Lab Sample ID: 240-38391-7

Date Collected: 06/10/14 09:01

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	135446	06/20/14 03:04	LRW	TAL CAN
Dissolved	Prep	3005A			134384	06/12/14 08:55	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 16:35	KLC	TAL CAN
Dissolved	Prep	3005A			134384	06/12/14 08:55	LPM	TAL CAN
Dissolved	Analysis	6020		1	134751	06/13/14 12:41	RKT	TAL CAN
Dissolved	Prep	7470A			134385	06/12/14 15:05	LPM	TAL CAN
Dissolved	Analysis	7470A		1	134585	06/13/14 11:25	AMM2	TAL CAN
Total/NA	Analysis	9012A		1	135253	06/18/14 15:48	LKG	TAL CAN
Total/NA	Prep	9012A			135403	06/19/14 12:07	NJE	TAL CAN
Total/NA	Analysis	9012A		1	135473	06/19/14 16:11	NJE	TAL CAN

Client Sample ID: TB-12636-061014-SSH-1427

Lab Sample ID: 240-38391-8

Date Collected: 06/10/14 09:05

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	135377	06/19/14 13:27	SAM	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

Client Sample ID: GW-12636-061014-SSH-1428

Lab Sample ID: 240-38391-9

Date Collected: 06/10/14 10:26

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 22:11	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 21:59	KLC	TAL CAN

Client Sample ID: GW-12636-061014-SSH-1429

Lab Sample ID: 240-38391-10

Date Collected: 06/10/14 11:31

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 22:20	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 22:15	KLC	TAL CAN

Client Sample ID: GW-12636-061014-SSH-1430

Lab Sample ID: 240-38391-11

Date Collected: 06/10/14 13:01

Matrix: Water

Date Received: 06/11/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Dissolved	Analysis	6010B		1	134577	06/13/14 22:28	KLC	TAL CAN
Total Recoverable	Prep	3005A			134373	06/12/14 08:23	LPM	TAL CAN
Total Recoverable	Analysis	6010B		1	134577	06/13/14 22:24	KLC	TAL CAN

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-38391-1

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

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-38391 Chain of Custody



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

44

COC NO: PL-09141

PAGE 6 OF 7

(See Reverse Side for Instructions)

Project No./Phase/Task Code: 12636-T09-003Y14		Laboratory Name: TestAmerica		Lab Location: North Canton, OH		SSOW ID: 12636-T09-007	
Project Name: Racer Coldwater Rd / Peregrine		Lab Contact: D. Hecker		Lab Quote No:		Cooler No:	
Project Location: Flint MI		SAMPLE TYPE: Grab (G) or Comp (C)		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED: (See Back of COC for Definitions)	
Chemistry Contact: R. Fleisher		Matrix Code (see back of COC)		Unpreserved		Hydrochloric Acid (HCl)	
Sampler(s): S. Hevenmeyer		Grab (G) or Comp (C)		Nitric Acid (HNO ₃)		Sulfuric Acid (H ₂ SO ₄)	
				Sodium Hydroxide (NaOH)		Methanol/Water (Soil VOC)	
				EnCores 3x5-g, 1x25-g		Other:	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line):		DATE (mm/dd/yyyy)		TIME (hh:mm)		Total Containers/Sample	
1	GW-12636-060914-SSA-1420	6/19/14	1011	0600			
2	-1421		1116	0600			
3	-1422		1216	0600			
4	-1423		1321	0600			
5	GW-12636-060914-SSA-1424		1424	0600			
6	GW-12636-061017-SSA-1425	6/10/14	0856	0600			
7	GW-12636-061017-SSA-1426		0901	0600			
8	TB-12636-061017-SSA-1427		0905	0600			
9	GW-12636-061017-SSA-1428		1026	0600			
10	-1429		1131	0600			
11	GW-12636-061014-SSA-1430		1301	0600			
12							
13							
14							
15							
TAT Required in business days (use separate COCs for different TATs):		DATE		COMPANY		DATE	
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:		6/10/14		CRA		6/10/14	
RELINQUISHED BY:		DATE		COMPANY		DATE	
1. [Signature]		6/10/14		CRA		6/10/14	
2.							
3.							
Total Number of Containers: 35		Total Number of Containers: 35		Notes/ Special Requirements: TAL site metals is dissolved only		DATE	
All Samples in Cooler must be on COC		TIME		COMPANY		TIME	
1. 1600		1600		TA		930	
2.							
3.							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 38391

Client <u>CRA</u>	Site Name _____	Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>6/10/14</u>	Opened on <u>6/11/14</u>	
FedEx: 1 st Grd <u>Exp</u> UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____		
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 +2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 4 (CF -2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 5 (CF +0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 8 (CF +0 °C)	Observed Cooler Temp. <u>4.4</u> °C	Corrected Cooler Temp. <u>4.4</u> °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity		Yes <u>No</u>
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes No <u>NA</u>
-Were custody seals on the bottle(s)?		Yes <u>No</u>
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. Did all bottles arrive in good condition (Unbroken)?		<u>Yes</u> No
7. Could all bottle labels be reconciled with the COC?		<u>Yes</u> No
8. Were correct bottle(s) used for the test(s) indicated?		<u>Yes</u> No
9. Sufficient quantity received to perform indicated analyses?		<u>Yes</u> No
10. Were sample(s) at the correct pH upon receipt?		<u>Yes</u> No NA pH Strip Lot# <u>HC302587</u>
11. Were VOAs on the COC?		<u>Yes</u> No
12. Were air bubbles >6 mm in any VOA vials?		Yes <u>No</u> NA
13. Was a trip blank present in the cooler(s)?		<u>Yes</u> No
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

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-12636-060914-SSH-1420	240-38391-A-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-060914-SSH-1420	240-38391-B-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-060914-SSH-1421	240-38391-A-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-060914-SSH-1421	240-38391-B-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-060914-SSH-1422	240-38391-A-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-060914-SSH-1422	240-38391-B-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-060914-SSH-1423	240-38391-A-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-060914-SSH-1423	240-38391-B-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-060914-SSH-1424	240-38391-A-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-060914-SSH-1424	240-38391-B-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-061014-SSH-1425	240-38391-J-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-061014-SSH-1425	240-38391-K-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-061014-SSH-1425	240-38391-L-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-1425	240-38391-M-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-1426	240-38391-D-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-061014-SSH-1426	240-38391-E-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-14298	240-38391-A-9	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-14298	240-38391-B-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-061014-SSH-1429	240-38391-A-10	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-1429	240-38391-B-10	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-061014-SSH-1430	240-38391-A-11	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-061014-SSH-1430	240-38391-B-11	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

To: Mike Tomka REF. NO.: 012636

FROM: Nancy Bergstrom/tl/165/Det *DF 5/1* DATE: October 6, 2014

RE: **Analytical Results and Reduced Validation
Quarterly Groundwater Monitoring
RACER - Peregrine Site
Genesee County, Michigan
September 2014**

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Monitoring at the RACER - Peregrine Site in Genesee County, Michigan during September 2014. 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 Conestoga-Rovers & Associates (CRA) 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 form, finished report forms, method blank data, laboratory control samples (LCS), matrix spikes (MS), 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 guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the RCRA Facility Investigation (RFI) at Former Peregrine (US), Inc. Coldwater Road Facility", May 15, 2000
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

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

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (4 +/- 2°C).

3.0 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 1 per 20 investigative samples and/or 1 per analytical batch.

Table 4 presents the metals data qualified for method blank contamination. Qualification was not required for analytes that were non-detect in investigative samples or were detected at levels greater than five times the method blank results. All remaining method blank results were non-detect, indicating laboratory contamination was not a factor.

4.0 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 1 per 20 investigative samples and/or 1 per analytical batch.

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

5.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the extraction or digestion 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 RPD between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

6.0 Field QA/QC Samples

The field QA/QC consisted of one field duplicate sample set.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with this duplicate sample 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.

7.0 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 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.

8.0 Conclusion

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

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
SEPTEMBER 2014

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters		Comments	
					Total Lead and Manganese	Dissolved Lead and Manganese		
TA-NC SDG No.: 240-41667-1								
GW-12636-090914-SSH-1428	B-9	water	9/9/2014	9:21	X	X	Field duplicate of MW-4-02	
GW-12636-090914-SSH-1429	PFW-2	water	9/9/2014	10:31	X	X		
GW-12636-090914-SSH-1430	PFW-9	water	9/9/2014	11:36	X			
GW-12636-090914-SSH-1431	MW-4-02	water	9/9/2014	13:01	X	X		
GW-12636-090914-SSH-1432	MW-4-02	water	9/9/2014	13:04	X	X		
GW-12636-090914-SSH-1433	MW-19-13	water	9/9/2014	14:31	X	X		
GW-12636-091014-SSH-1434	MW-20-13	water	9/10/2014	9:01	X	X		
GW-12636-091014-SSH-1435	MW-17-13	water	9/10/2014	10:16	X	X		MS/MSD
GW-12636-091014-SSH-1436	MW-18-13	water	9/10/2014	11:31	X	X		

Notes:

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULT
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
SEPTEMBER 2014

Sample Location:	B-9	MW-4-02	MW-4-02
Sample ID:	GW-12636-090914-SSH-1428	GW-12636-090914-SSH-1431	GW-12636-090914-SSH-1432
Sample Date:	9/9/2014	9/9/2014	9/9/2014
Parameters:			(Duplicate)
Metals			
Lead	3.0 U	3.0 U	3.0 U
Lead (dissolved)	3.0 U	3.0 U	3.0 U
Manganese	210	3.7 J	4.4 J
Manganese (dissolved)	200	15 U	15 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULT
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
SEPTEMBER 2014

Sample Location:	MW-17-13	MW-18-13	MW-19-13
Sample ID:	GW-12636-091014-SSH-1435	GW-12636-091014-SSH-1436	GW-12636-090914-SSH-1433
Sample Date:	9/10/2014	9/10/2014	9/9/2014
Parameters:			
Metals			
Lead	3.0 U	3.0 U	3.0 U
Lead (dissolved)	3.0 U	3.0 U	3.0 U
Manganese	1100	170	280
Manganese (dissolved)	1200	180	270
	ug/L		
	ug/L		
	ug/L		
	ug/L		

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULT
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
SEPTEMBER 2014

Sample Location:	MW-20-13	PFW-2	PFW-9
Sample ID:	GW-12636-091014-SSH-1434	GW-12636-090914-SSH-1429	GW-12636-090914-SSH-1430
Sample Date:	9/10/2014	9/9/2014	9/9/2014
Parameters:	Units		
Metals			
Lead	3.0 U	3.0 U	3.0 U
Lead (dissolved)	3.0 U	3.0 U	3.0 U
Manganese	15 U	1600	210
Manganese (dissolved)	15 U	1600	220

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2014

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (Days)</i>	<i>Collection or Extraction to Analysis (Days)</i>
Total and Dissolved Lead and Manganese	SW-846 6010B	Water	-	180

Notes:

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

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
SEPTEMBER 2014

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
Dissolved Metals	Manganese	9/12/2014	0.662 J	GW-12636-090914-SSH-1432	0.62 JB	15 U	µg/L

Notes:

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

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: 240-41667-1

Client Project/Site: 12636-T09-007, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

9/16/2014 2:14:15 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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www.testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Job ID: 240-41667-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-007, RACER Peregrine

Report Number: 240-41667-1

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 09/10/2014 and 09/11/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 and 3.0 C.

DISSOLVED METALS (ICP)

Samples GW-12636-090914-SSH-1428 (240-41667-1), GW-12636-091014-SSH-1434 (240-41736-1), GW-12636-090914-SSH-1429 (240-41667-2), GW-12636-091014-SSH-1435 (240-41736-2), GW-12636-090914-SSH-1430 (240-41667-3), GW-12636-091014-SSH-1436 (240-41736-3), GW-12636-090914-SSH-1431 (240-41667-4), GW-12636-090914-SSH-1432 (240-41667-5) and GW-12636-090914-SSH-1433 (240-41667-6) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 09/11/2014 and 09/12/2014 and analyzed on 09/12/2014 and 09/15/2014.

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12636-090914-SSH-1428 (240-41667-1), GW-12636-091014-SSH-1434 (240-41736-1), GW-12636-090914-SSH-1429 (240-41667-2), GW-12636-091014-SSH-1435 (240-41736-2), GW-12636-090914-SSH-1430 (240-41667-3), GW-12636-091014-SSH-1436 (240-41736-3), GW-12636-090914-SSH-1431 (240-41667-4), GW-12636-090914-SSH-1432 (240-41667-5) and GW-12636-090914-SSH-1433 (240-41667-6) were analyzed for total recoverable metals (ICP) in accordance with EPA

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Job ID: 240-41667-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SW-846 Method 6010B. The samples were prepared on 09/11/2014 and 09/12/2014 and analyzed on 09/12/2014 and 09/15/2014.

Manganese was detected in method blank MB 240-146517/1-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.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Qualifiers

Metals

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

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-41667-1	GW-12636-090914-SSH-1428	Water	09/09/14 09:21	09/10/14 09:30
240-41667-2	GW-12636-090914-SSH-1429	Water	09/09/14 10:31	09/10/14 09:30
240-41667-3	GW-12636-090914-SSH-1430	Water	09/09/14 11:36	09/10/14 09:30
240-41667-4	GW-12636-090914-SSH-1431	Water	09/09/14 13:01	09/10/14 09:30
240-41667-5	GW-12636-090914-SSH-1432	Water	09/09/14 13:04	09/10/14 09:30
240-41667-6	GW-12636-090914-SSH-1433	Water	09/09/14 14:31	09/10/14 09:30
240-41736-1	GW-12636-091014-SSH-1434	Water	09/10/14 09:01	09/11/14 09:20
240-41736-2	GW-12636-091014-SSH-1435	Water	09/10/14 10:16	09/11/14 09:20
240-41736-3	GW-12636-091014-SSH-1436	Water	09/10/14 11:31	09/11/14 09:20

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Client Sample ID: GW-12636-090914-SSH-1428

Lab Sample ID: 240-41667-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	210	B	15	0.46	ug/L	1		6010B	Total
Manganese	200	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-090914-SSH-1429

Lab Sample ID: 240-41667-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1600	B	15	0.46	ug/L	1		6010B	Total
Manganese	1600	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-090914-SSH-1430

Lab Sample ID: 240-41667-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	210	B	15	0.46	ug/L	1		6010B	Total
Manganese	220	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-090914-SSH-1431

Lab Sample ID: 240-41667-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.7	J B	15	0.46	ug/L	1		6010B	Total Recoverable

Client Sample ID: GW-12636-090914-SSH-1432

Lab Sample ID: 240-41667-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	4.4	J B	15	0.46	ug/L	1		6010B	Total
Manganese	0.62	J B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-090914-SSH-1433

Lab Sample ID: 240-41667-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	280	B	15	0.46	ug/L	1		6010B	Total
Manganese	270	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-091014-SSH-1434

Lab Sample ID: 240-41736-1

No Detections.

Client Sample ID: GW-12636-091014-SSH-1435

Lab Sample ID: 240-41736-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1100		15	0.46	ug/L	1		6010B	Total
Manganese	1200		15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-12636-091014-SSH-1436

Lab Sample ID: 240-41736-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Client Sample ID: GW-12636-091014-SSH-1436 (Continued)

Lab Sample ID: 240-41736-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	170		15	0.46	ug/L	1		6010B	Total
Manganese	180		15	0.46	ug/L	1		6010B	Recoverable Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1428

Date Collected: 09/09/14 09:21

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	210	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:23	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1429

Date Collected: 09/09/14 10:31

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1600	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:32	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:32	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1430

Date Collected: 09/09/14 11:36

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	210	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:40	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:40	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1431

Date Collected: 09/09/14 13:01

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.7	J B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:56	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:56	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1432

Date Collected: 09/09/14 13:04

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	4.4	J B	15	0.46	ug/L		09/11/14 08:55	09/12/14 11:04	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 11:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-090914-SSH-1433

Date Collected: 09/09/14 14:31

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	280	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 11:12	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 11:12	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-091014-SSH-1434

Date Collected: 09/10/14 09:01

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		09/12/14 09:45	09/15/14 23:14	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:45	09/15/14 23:14	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-091014-SSH-1435

Date Collected: 09/10/14 10:16

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1100		15	0.46	ug/L		09/12/14 09:45	09/15/14 21:25	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:45	09/15/14 21:25	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Client Sample ID: GW-12636-091014-SSH-1436

Date Collected: 09/10/14 11:31

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	170		15	0.46	ug/L		09/12/14 09:49	09/15/14 23:23	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:49	09/15/14 23:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1428

Date Collected: 09/09/14 09:21

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:27	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1429

Date Collected: 09/09/14 10:31

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1600	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:36	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:36	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1430

Date Collected: 09/09/14 11:36

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	220	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 10:44	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 10:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1431

Date Collected: 09/09/14 13:01

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		09/11/14 08:55	09/12/14 11:00	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 11:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1432

Date Collected: 09/09/14 13:04

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.62	J B	15	0.46	ug/L		09/11/14 08:55	09/12/14 11:08	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 11:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-090914-SSH-1433

Date Collected: 09/09/14 14:31

Date Received: 09/10/14 09:30

Lab Sample ID: 240-41667-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	270	B	15	0.46	ug/L		09/11/14 08:55	09/12/14 11:16	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 11:16	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-091014-SSH-1434

Date Collected: 09/10/14 09:01

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L	—	09/12/14 09:45	09/15/14 23:18	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:45	09/15/14 23:18	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-091014-SSH-1435

Date Collected: 09/10/14 10:16

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1200		15	0.46	ug/L		09/12/14 09:45	09/15/14 21:45	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:45	09/15/14 21:45	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-091014-SSH-1436

Date Collected: 09/10/14 11:31

Date Received: 09/11/14 09:20

Lab Sample ID: 240-41736-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	180		15	0.46	ug/L		09/12/14 09:49	09/15/14 23:27	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:49	09/15/14 23:27	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Metals

Prep Batch: 146517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41667-1	GW-12636-090914-SSH-1428	Dissolved	Water	3005A	
240-41667-1	GW-12636-090914-SSH-1428	Total Recoverable	Water	3005A	
240-41667-2	GW-12636-090914-SSH-1429	Dissolved	Water	3005A	
240-41667-2	GW-12636-090914-SSH-1429	Total Recoverable	Water	3005A	
240-41667-3	GW-12636-090914-SSH-1430	Dissolved	Water	3005A	
240-41667-3	GW-12636-090914-SSH-1430	Total Recoverable	Water	3005A	
240-41667-4	GW-12636-090914-SSH-1431	Dissolved	Water	3005A	
240-41667-4	GW-12636-090914-SSH-1431	Total Recoverable	Water	3005A	
240-41667-5	GW-12636-090914-SSH-1432	Dissolved	Water	3005A	
240-41667-5	GW-12636-090914-SSH-1432	Total Recoverable	Water	3005A	
240-41667-6	GW-12636-090914-SSH-1433	Dissolved	Water	3005A	
240-41667-6	GW-12636-090914-SSH-1433	Total Recoverable	Water	3005A	
LCS 240-146517/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-146517/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 146732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41736-1	GW-12636-091014-SSH-1434	Dissolved	Water	3005A	
240-41736-1	GW-12636-091014-SSH-1434	Total Recoverable	Water	3005A	
240-41736-2	GW-12636-091014-SSH-1435	Dissolved	Water	3005A	
240-41736-2	GW-12636-091014-SSH-1435	Total Recoverable	Water	3005A	
240-41736-2 MS	GW-12636-091014-SSH-1435	Dissolved	Water	3005A	
240-41736-2 MS	GW-12636-091014-SSH-1435	Total Recoverable	Water	3005A	
240-41736-2 MSD	GW-12636-091014-SSH-1435	Dissolved	Water	3005A	
240-41736-2 MSD	GW-12636-091014-SSH-1435	Total Recoverable	Water	3005A	
240-41736-3	GW-12636-091014-SSH-1436	Dissolved	Water	3005A	
240-41736-3	GW-12636-091014-SSH-1436	Total Recoverable	Water	3005A	
LCS 240-146732/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-146732/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 146737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41667-1	GW-12636-090914-SSH-1428	Dissolved	Water	6010B	146517
240-41667-1	GW-12636-090914-SSH-1428	Total Recoverable	Water	6010B	146517
240-41667-2	GW-12636-090914-SSH-1429	Dissolved	Water	6010B	146517
240-41667-2	GW-12636-090914-SSH-1429	Total Recoverable	Water	6010B	146517
240-41667-3	GW-12636-090914-SSH-1430	Dissolved	Water	6010B	146517
240-41667-3	GW-12636-090914-SSH-1430	Total Recoverable	Water	6010B	146517
240-41667-4	GW-12636-090914-SSH-1431	Dissolved	Water	6010B	146517
240-41667-4	GW-12636-090914-SSH-1431	Total Recoverable	Water	6010B	146517
240-41667-5	GW-12636-090914-SSH-1432	Dissolved	Water	6010B	146517
240-41667-5	GW-12636-090914-SSH-1432	Total Recoverable	Water	6010B	146517
240-41667-6	GW-12636-090914-SSH-1433	Dissolved	Water	6010B	146517
240-41667-6	GW-12636-090914-SSH-1433	Total Recoverable	Water	6010B	146517
LCS 240-146517/2-A	Lab Control Sample	Total Recoverable	Water	6010B	146517
MB 240-146517/1-A	Method Blank	Total Recoverable	Water	6010B	146517

Analysis Batch: 147027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41736-1	GW-12636-091014-SSH-1434	Dissolved	Water	6010B	146732
240-41736-1	GW-12636-091014-SSH-1434	Total Recoverable	Water	6010B	146732

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Metals (Continued)

Analysis Batch: 147027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41736-2	GW-12636-091014-SSH-1435	Dissolved	Water	6010B	146732
240-41736-2	GW-12636-091014-SSH-1435	Total Recoverable	Water	6010B	146732
240-41736-2 MS	GW-12636-091014-SSH-1435	Dissolved	Water	6010B	146732
240-41736-2 MS	GW-12636-091014-SSH-1435	Total Recoverable	Water	6010B	146732
240-41736-2 MSD	GW-12636-091014-SSH-1435	Dissolved	Water	6010B	146732
240-41736-2 MSD	GW-12636-091014-SSH-1435	Total Recoverable	Water	6010B	146732
240-41736-3	GW-12636-091014-SSH-1436	Dissolved	Water	6010B	146732
240-41736-3	GW-12636-091014-SSH-1436	Total Recoverable	Water	6010B	146732
LCS 240-146732/2-A	Lab Control Sample	Total Recoverable	Water	6010B	146732
MB 240-146732/1-A	Method Blank	Total Recoverable	Water	6010B	146732

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-146517/1-A

Matrix: Water

Analysis Batch: 146737

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 146517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.662	J	15	0.46	ug/L		09/11/14 08:55	09/12/14 09:30	1
Lead	3.0	U	3.0	1.9	ug/L		09/11/14 08:55	09/12/14 09:30	1

Lab Sample ID: LCS 240-146517/2-A

Matrix: Water

Analysis Batch: 146737

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 146517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	474		ug/L		95	80 - 120
Lead	500	446		ug/L		89	80 - 120

Lab Sample ID: MB 240-146732/1-A

Matrix: Water

Analysis Batch: 147027

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 146732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		09/12/14 09:45	09/15/14 21:09	1
Lead	3.0	U	3.0	1.9	ug/L		09/12/14 09:45	09/15/14 21:09	1

Lab Sample ID: LCS 240-146732/2-A

Matrix: Water

Analysis Batch: 147027

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 146732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	485		ug/L		97	80 - 120
Lead	500	486		ug/L		97	80 - 120

Lab Sample ID: 240-41736-2 MS

Matrix: Water

Analysis Batch: 147027

Client Sample ID: GW-12636-091014-SSH-1435

Prep Type: Total Recoverable

Prep Batch: 146732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1100		500	1640		ug/L		99	75 - 125
Lead	3.0	U	500	487		ug/L		97	75 - 125

Lab Sample ID: 240-41736-2 MSD

Matrix: Water

Analysis Batch: 147027

Client Sample ID: GW-12636-091014-SSH-1435

Prep Type: Total Recoverable

Prep Batch: 146732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1100		500	1640		ug/L		99	75 - 125	0	20
Lead	3.0	U	500	491		ug/L		98	75 - 125	1	20

Lab Sample ID: 240-41736-2 MS

Matrix: Water

Analysis Batch: 147027

Client Sample ID: GW-12636-091014-SSH-1435

Prep Type: Dissolved

Prep Batch: 146732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1200		500	1650		ug/L		97	75 - 125

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

Lab Sample ID: 240-41736-2 MS

Matrix: Water

Analysis Batch: 147027

Client Sample ID: GW-12636-091014-SSH-1435

Prep Type: Dissolved

Prep Batch: 146732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	3.0	U	500	498		ug/L		100	75 - 125

Lab Sample ID: 240-41736-2 MSD

Matrix: Water

Analysis Batch: 147027

Client Sample ID: GW-12636-091014-SSH-1435

Prep Type: Dissolved

Prep Batch: 146732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Manganese	1200		500	1650		ug/L		98	75 - 125	0	20
Lead	3.0	U	500	494		ug/L		99	75 - 125	1	20

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Client Sample ID: GW-12636-090914-SSH-1428

Lab Sample ID: 240-41667-1

Date Collected: 09/09/14 09:21

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 10:27	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	146737	09/12/14 10:23	ADS	TAL CAN

Client Sample ID: GW-12636-090914-SSH-1429

Lab Sample ID: 240-41667-2

Date Collected: 09/09/14 10:31

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 10:36	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	146737	09/12/14 10:32	ADS	TAL CAN

Client Sample ID: GW-12636-090914-SSH-1430

Lab Sample ID: 240-41667-3

Date Collected: 09/09/14 11:36

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 10:44	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	146737	09/12/14 10:40	ADS	TAL CAN

Client Sample ID: GW-12636-090914-SSH-1431

Lab Sample ID: 240-41667-4

Date Collected: 09/09/14 13:01

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 11:00	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	146737	09/12/14 10:56	ADS	TAL CAN

Client Sample ID: GW-12636-090914-SSH-1432

Lab Sample ID: 240-41667-5

Date Collected: 09/09/14 13:04

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 11:08	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Client Sample ID: GW-12636-090914-SSH-1432

Lab Sample ID: 240-41667-5

Date Collected: 09/09/14 13:04

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1	146737	09/12/14 11:04	ADS	TAL CAN

Client Sample ID: GW-12636-090914-SSH-1433

Lab Sample ID: 240-41667-6

Date Collected: 09/09/14 14:31

Matrix: Water

Date Received: 09/10/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Dissolved	Analysis	6010B		1	146737	09/12/14 11:16	ADS	TAL CAN
Total Recoverable	Prep	3005A			146517	09/11/14 08:55	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	146737	09/12/14 11:12	ADS	TAL CAN

Client Sample ID: GW-12636-091014-SSH-1434

Lab Sample ID: 240-41736-1

Date Collected: 09/10/14 09:01

Matrix: Water

Date Received: 09/11/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146732	09/12/14 09:45	WAL	TAL CAN
Dissolved	Analysis	6010B		1	147027	09/15/14 23:18	KLC	TAL CAN
Total Recoverable	Prep	3005A			146732	09/12/14 09:45	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	147027	09/15/14 23:14	KLC	TAL CAN

Client Sample ID: GW-12636-091014-SSH-1435

Lab Sample ID: 240-41736-2

Date Collected: 09/10/14 10:16

Matrix: Water

Date Received: 09/11/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146732	09/12/14 09:45	WAL	TAL CAN
Dissolved	Analysis	6010B		1	147027	09/15/14 21:45	KLC	TAL CAN
Total Recoverable	Prep	3005A			146732	09/12/14 09:45	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	147027	09/15/14 21:25	KLC	TAL CAN

Client Sample ID: GW-12636-091014-SSH-1436

Lab Sample ID: 240-41736-3

Date Collected: 09/10/14 11:31

Matrix: Water

Date Received: 09/11/14 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			146732	09/12/14 09:49	WAL	TAL CAN
Dissolved	Analysis	6010B		1	147027	09/15/14 23:27	KLC	TAL CAN
Total Recoverable	Prep	3005A			146732	09/12/14 09:49	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	147027	09/15/14 23:23	KLC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

Laboratory References:

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

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Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-41667-1

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

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-41667 Chain of Custody



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

COC NO.: PL-12729
PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No/Phase/Task Code: 12636-T09-003414		Laboratory Name: TestAmerica		Lab Location: North Canton, OH		SSOW ID: 12636-T09-007	
Project Name: Coldwater Rd / Peregrine		Lab Contact: D. Hecker		Lab Quote No:		Cooler No:	
Project Location: Genesee Twp. MI		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: R. Fleisher		SAMPLE TYPE		Carrier: Fed Ex			
Sampler(s): S. Howenzyr		Matrix Code		Airbill No: 80618483 9409			
Item		DATE (mm/dd/yyyy)		TIME (hh:mm)		Date Shipped: 9/9/14	
1 GW-12636-090914-SS4-1428		9/9/14		0921		MS/MSD Request	
2		-1429		1031			
3		-1430		1136			
4		-1431		1301			
5		-1432		1304			
6		GW-12636-090914-SS4-1433		1431			
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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 41607

Client CRA Site Name _____

Cooler unpacked by: _____

Cooler Received on 9.10.14 Opened on 9.10.14

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

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 +2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 4 (CF -2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 5 (CF 0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN# 8 (CF 0 °C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp. 3.0 °C

☐ See Multiple
Cooler Form

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

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

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

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

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

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

6. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐

7. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐

8. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐

9. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

10. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA pH Strip Lot# HC412469

11. Were VOAs on the COC? Yes ☒ No ☐

12. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA

13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒

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

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

15. SAMPLE CONDITION

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

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

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

16. SAMPLE PRESERVATION

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

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

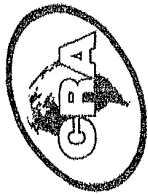
Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
GW-12636-SSH-1428	240-41667-A-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1428	240-41667-B-1	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-SSH-1429	240-41667-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1429	240-41667-B-2	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-SSH-1430	240-41667-A-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1430	240-41667-B-3	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-SSH-1431	240-41667-A-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1431	240-41667-B-4	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-SSH-1432	240-41667-A-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1432	240-41667-B-5	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-SSH-1433	240-41667-A-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-SSH-1433	240-41667-B-6	Plastic 250ml - w/nitric - dis	<2	_____	_____

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-41736 Chain of Custody



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-12728

PAGE 7 OF 7

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 12636-T09-003Y14		Laboratory Name: TestAmerica		Lab Location: North Canton, OH		SSOW ID: 12636-T09-007	
Project Name: Coldwater Rd / Peregrine		Lab Contact: D. Hochler		Lab Quote No:		Cooler No:	
Project Location: Genesee Top MI		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FedEx	
Chemistry Contact: R. Fleisher		SAMPLE TYPE		Total Containers/Sample		Airbill No: 805943259943	
Sampler(s): S. Huemeyer		(see back of COC)		Other:		Date Shipped: 9/10/14	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (month/day)		TIME (hh:mm)		COMMENTS/SPECIAL INSTRUCTIONS:	
1 GW-12636-091014-SSA-14349		10/14/0901		1016		MS/MSA	
2 GW-12636-091014-SSA-1435		1016		1016		batch	
3 GW-12636-091014-SSA-1436		1131		1131		complete	
TAT Required in business days (use separate COCs for different TATs):		Total Number of Containers: 8		Notes/ Special Requirements: dissolved is field filtered			
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other:		All Samples in Cooler must be on COC					
RELINQUISHED BY: CRA		DATE: 9/10/14		RECEIVED BY: [Signature]		TIME: 1500	
COMPANY: CRA		DATE: 9/10/14		COMPANY: TA		DATE: 9-11-14	
TIME: 920							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form COC-10A (20110804)

13

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 7173p

Client <u>CRA</u>	Site Name _____	Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>9-11-14</u>	Opened on <u>9-11-14</u>	
FedEx: 1 st Grd ☒ UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____		
TestAmerica Cooler # _____ Foam Box ☒ Client Cooler 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 +2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 4 (CF -2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 5 (CF 0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 8 (CF 0 °C)	Observed Cooler Temp. <u>1.2</u> °C	Corrected Cooler Temp. <u>1.2</u> °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____		Yes ☒ No ☒
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes ☒ No ☒
-Were custody seals on the bottle(s)?		Yes ☒ No ☒
3. Shippers' packing slip attached to the cooler(s)?		Yes ☒ No ☒
4. Did custody papers accompany the sample(s)?		Yes ☒ No ☒
5. Were the custody papers relinquished & signed in the appropriate place?		Yes ☒ No ☒
6. Did all bottles arrive in good condition (Unbroken)?		Yes ☒ No ☒
7. Could all bottle labels be reconciled with the COC?		Yes ☒ No ☒
8. Were correct bottle(s) used for the test(s) indicated?		Yes ☒ No ☒
9. Sufficient quantity received to perform indicated analyses?		Yes ☒ No ☒
10. Were sample(s) at the correct pH upon receipt?		Yes ☒ No ☒ NA pH Strip Lot# <u>HC412469</u>
11. Were VOAs on the COC?		Yes ☒ No ☒
12. Were air bubbles >6 mm in any VOA vials?		Yes ☒ No ☒
13. Was a trip blank present in the cooler(s)?		Yes ☒ No ☒
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

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> pH	<u>Preservative</u> Added (mls)	<u>Lot #</u>
GW-12636-091014-SSH-1434	240-41736-A-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-091014-SSH-1434	240-41736-B-1	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-091014-SSH-1435	240-41736-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-091014-SSH-1435	240-41736-B-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-091014-SSH-1435	240-41736-C-2	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-091014-SSH-1435	240-41736-D-2	Plastic 250ml - w/nitric - dis	<2	_____	_____
GW-12636-091014-SSH-1436	240-41736-A-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
GW-12636-091014-SSH-1436	240-41736-B-3	Plastic 250ml - w/nitric - dis	<2	_____	_____



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

To: Mike Tomka REF. NO.: 012636

FROM: Ruth Mickle/tl/166/Det DATE: January 9, 2015

RE: Analytical Results and Reduced Validation
Groundwater Monitoring
RACER - Peregrine Site
Genesee County, Michigan
December 2014

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Groundwater Monitoring at the RACER - Peregrine Site in Genesee County, Michigan during December 2014. 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 Conestoga-Rovers & Associates (CRA) 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 form, finished report forms, method blank data, laboratory control samples (LCS), matrix spikes (MS), 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 guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the RCRA Facility Investigation (RFI) at Former Peregrine (US) Inc., Coldwater Road Facility, Genesee Township, Michigan", April 28, 2000
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

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

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

3.0 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 1 per 20 investigative samples and/or 1 per analytical batch.

Table 4 presents the metals data qualified for method blank contamination. Qualification was not required for analytes that were non-detect in investigative samples or were detected at levels greater than five times the method blank results. All remaining method blank results were non-detect, indicating laboratory contamination was not a factor.

4.0 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 was analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

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

5.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the extraction or digestion 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. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1.

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

6.0 Field QA/QC Samples

The field QA/QC consisted of one field duplicate sample set.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with this duplicate sample 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.

The field duplicate result was within acceptable agreement, demonstrating acceptable sampling and analytical precision.

7.0 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 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.

8.0 Conclusion

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

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters		Comments
					Total Manganese & Lead	Dissolved Manganese & Lead	
TA-SDG No: 240-45341-1							
GW-120914-12636-SSH-1437	PFW-2	water	12/9/2014	9:11	X	X	Field duplicate of MW-19-13 MS/MSD
GW-120914-12636-SSH-1438	PFW-9	water	12/9/2014	10:31	X	X	
GW-120914-12636-SSH-1439	B-9	water	12/9/2014	11:51	X	X	
GW-120914-12636-SSH-1440	MW-4-02	water	12/9/2014	13:06	X	X	
GW-120914-12636-SSH-1441	MW-19-13	water	12/9/2014	14:21	X	X	
GW-120914-12636-SSH-1442	MW-19-13	water	12/9/2014	14:26	X	X	
GW-121014-12636-SSH-1443	MW-20-13	water	12/10/2014	9:06	X	X	
GW-121014-12636-SSH-1444	MW-17-13	water	12/10/2014	10:26	X	X	
GW-121014-12636-SSH-1445	MW-18-13	water	12/10/2014	11:41	X	X	
					X	X	

Notes:

TA - TestAmerica Laboratories
MS/MSD - Matrix Spike/Matrix Spike Duplicate
SDG - Sample Delivery Group

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

Sample Location:	B-9	MW-4-02	MW-17-13	MW-18-13
Sample ID:	GW-120914-12636-SSH-1439	GW-120914-12636-SSH-1440	GW-121014-12636-SSH-1444	GW-121014-12636-SSH-1445
Sample Date:	12/9/2014	12/9/2014	12/10/2014	12/10/2014
Parameters:	Units			
Metals				
Lead	1.9 J	3.0 U	3.0 U	3.0 U
Lead (dissolved)	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	47	15 U	650	360
Manganese (dissolved)	39	15 U	660	370

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

Sample Location:	MW-19-13	MW-19-13	MW-20-13	PFW-2
Sample ID:	GW-120914-12636-SSH-1441	GW-120914-12636-SSH-1442	GW-121014-12636-SSH-1443	GW-120914-12636-SSH-1437
Sample Date:	12/9/2014	12/9/2014 (Duplicate)	12/10/2014	12/9/2014
Parameters:	Units			
Metals				
Lead	3.0 U	3.0 U	3.0 U	3.7
Lead (dissolved)	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	190	200	15 U	840
Manganese (dissolved)	200	190	15 U	810

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

PFW-9
GW-120914-12636-SSH-1438
12/9/2014

Sample Location:
Sample ID:
Sample Date:

Parameters: Units

Metals

Lead	ug/L	3.0 U
Lead (dissolved)	ug/L	3.0 U
Manganese	ug/L	22
Manganese (dissolved)	ug/L	23

Notes:

- J - Estimated concentration.
- U - Not present at or above the associated value.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (Days)</i>	<i>Collection or Extraction to Analysis (Days)</i>
Total and Dissolved Manganese and Lead	SW-846 6010B	Water	-	180

Notes:

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

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
DECEMBER 2014

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
Total Site Metals	Manganese	12/17/2014	2.05 J	GW-120914-12636-SSH-1440	3.1 JB	15 U	µg/L
				GW-121014-12636-SSH-1443	1.2 JB	15 U	µg/L
Dissolved Site Metals	Manganese	12/17/2014	2.05 J	GW-120914-12636-SSH-1440	1.2 JB	15 U	µg/L

Notes:

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

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: 240-45341-1

Client Project/Site: 12636-T09-007, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

12/22/2014 1:00:50 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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results through

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Visit us at:

www.testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Job ID: 240-45341-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-007, RACER Peregrine

Report Number: 240-45341-1

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 12/11/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 C.

DISSOLVED METALS (ICP)

Samples GW-120914-12636-SSH-1437 (240-45341-1), GW-120914-12636-SSH-1438 (240-45341-2), GW-120914-12636-SSH-1439 (240-45341-3), GW-120914-12636-SSH-1440 (240-45341-4), GW-120914-12636-SSH-1441 (240-45341-5), GW-120914-12636-SSH-1442 (240-45341-6), GW-121014-12636-SSH-1443 (240-45341-7), GW-121014-12636-SSH-1444 (240-45341-8) and GW-121014-12636-SSH-1445 (240-45341-9) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/15/2014 and analyzed on 12/17/2014 and 12/18/2014.

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-120914-12636-SSH-1437 (240-45341-1), GW-120914-12636-SSH-1438 (240-45341-2), GW-120914-12636-SSH-1439 (240-45341-3), GW-120914-12636-SSH-1440 (240-45341-4), GW-120914-12636-SSH-1441 (240-45341-5), GW-120914-12636-SSH-1442 (240-45341-6), GW-121014-12636-SSH-1443 (240-45341-7), GW-121014-12636-SSH-1444 (240-45341-8) and GW-121014-12636-SSH-1445 (240-45341-9) were analyzed for total recoverable metals (ICP) in accordance with EPA

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Job ID: 240-45341-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SW-846 Method 6010B. The samples were prepared on 12/15/2014 and analyzed on 12/17/2014 and 12/18/2014.

Manganese was detected in method blank MB 240-161008/1-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.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-45341-1	GW-120914-12636-SSH-1437	Water	12/09/14 09:11	12/11/14 09:45
240-45341-2	GW-120914-12636-SSH-1438	Water	12/09/14 10:31	12/11/14 09:45
240-45341-3	GW-120914-12636-SSH-1439	Water	12/09/14 11:51	12/11/14 09:45
240-45341-4	GW-120914-12636-SSH-1440	Water	12/09/14 13:06	12/11/14 09:45
240-45341-5	GW-120914-12636-SSH-1441	Water	12/09/14 14:21	12/11/14 09:45
240-45341-6	GW-120914-12636-SSH-1442	Water	12/09/14 14:26	12/11/14 09:45
240-45341-7	GW-121014-12636-SSH-1443	Water	12/10/14 09:06	12/11/14 09:45
240-45341-8	GW-121014-12636-SSH-1444	Water	12/10/14 10:26	12/11/14 09:45
240-45341-9	GW-121014-12636-SSH-1445	Water	12/10/14 11:41	12/11/14 09:45

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Client Sample ID: GW-120914-12636-SSH-1437

Lab Sample ID: 240-45341-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	840	B	15	0.46	ug/L	1		6010B	Total
Lead	3.7		3.0	1.9	ug/L	1		6010B	Recoverable
Manganese	810	B	15	0.46	ug/L	1		6010B	Total Recoverable Dissolved

Client Sample ID: GW-120914-12636-SSH-1438

Lab Sample ID: 240-45341-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	22	B	15	0.46	ug/L	1		6010B	Total
Manganese	23	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-120914-12636-SSH-1439

Lab Sample ID: 240-45341-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	47	B	15	0.46	ug/L	1		6010B	Total
Lead	1.9	J	3.0	1.9	ug/L	1		6010B	Recoverable
Manganese	39	B	15	0.46	ug/L	1		6010B	Total Recoverable Dissolved

Client Sample ID: GW-120914-12636-SSH-1440

Lab Sample ID: 240-45341-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	3.1	J B	15	0.46	ug/L	1		6010B	Total
Manganese	1.2	J B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-120914-12636-SSH-1441

Lab Sample ID: 240-45341-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	190	B	15	0.46	ug/L	1		6010B	Total
Manganese	200	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-120914-12636-SSH-1442

Lab Sample ID: 240-45341-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	200	B	15	0.46	ug/L	1		6010B	Total
Manganese	190	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-121014-12636-SSH-1443

Lab Sample ID: 240-45341-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.2	J B	15	0.46	ug/L	1		6010B	Total
									Recoverable

Client Sample ID: GW-121014-12636-SSH-1444

Lab Sample ID: 240-45341-8

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Client Sample ID: GW-121014-12636-SSH-1444 (Continued)

Lab Sample ID: 240-45341-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	650	B	15	0.46	ug/L	1		6010B	Total
Manganese	660	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

Client Sample ID: GW-121014-12636-SSH-1445

Lab Sample ID: 240-45341-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	360	B	15	0.46	ug/L	1		6010B	Total
Manganese	370	B	15	0.46	ug/L	1		6010B	Recoverable Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1437

Date Collected: 12/09/14 09:11

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	840	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 14:42	1
Lead	3.7		3.0	1.9	ug/L		12/15/14 10:27	12/18/14 14:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1438

Date Collected: 12/09/14 10:31

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	22	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 14:46	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 14:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1439

Date Collected: 12/09/14 11:51

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	47	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 14:50	1
Lead	1.9	J	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 14:50	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1440

Date Collected: 12/09/14 13:06

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.1	J B	15	0.46	ug/L		12/15/14 10:27	12/18/14 14:54	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 14:54	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1441

Date Collected: 12/09/14 14:21

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	190	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:06	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:06	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-120914-12636-SSH-1442

Date Collected: 12/09/14 14:26

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:10	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:10	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-121014-12636-SSH-1443

Date Collected: 12/10/14 09:06

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2	J B	15	0.46	ug/L		12/15/14 10:27	12/17/14 16:15	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/17/14 16:15	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-121014-12636-SSH-1444

Date Collected: 12/10/14 10:26

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	650	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:15	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:15	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

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

Client Sample ID: GW-121014-12636-SSH-1445

Date Collected: 12/10/14 11:41

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	360	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:19	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:19	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1437

Date Collected: 12/09/14 09:11

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	810	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:32	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:32	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1438

Date Collected: 12/09/14 10:31

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	23	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:36	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:36	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1439

Date Collected: 12/09/14 11:51

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	39	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:40	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:40	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1440

Date Collected: 12/09/14 13:06

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.2	J B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:44	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1441

Date Collected: 12/09/14 14:21

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	200	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 15:56	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 15:56	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-120914-12636-SSH-1442

Date Collected: 12/09/14 14:26

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	190	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 16:00	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 16:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-121014-12636-SSH-1443

Date Collected: 12/10/14 09:06

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	15	U	15	0.46	ug/L		12/15/14 10:27	12/17/14 16:35	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/17/14 16:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-121014-12636-SSH-1444

Date Collected: 12/10/14 10:26

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	660	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 16:05	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 16:05	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-121014-12636-SSH-1445

Date Collected: 12/10/14 11:41

Date Received: 12/11/14 09:45

Lab Sample ID: 240-45341-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	370	B	15	0.46	ug/L		12/15/14 10:27	12/18/14 16:09	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/18/14 16:09	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Metals

Prep Batch: 161008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-45341-1	GW-120914-12636-SSH-1437	Dissolved	Water	3005A	
240-45341-1	GW-120914-12636-SSH-1437	Total Recoverable	Water	3005A	
240-45341-2	GW-120914-12636-SSH-1438	Dissolved	Water	3005A	
240-45341-2	GW-120914-12636-SSH-1438	Total Recoverable	Water	3005A	
240-45341-3	GW-120914-12636-SSH-1439	Dissolved	Water	3005A	
240-45341-3	GW-120914-12636-SSH-1439	Total Recoverable	Water	3005A	
240-45341-4	GW-120914-12636-SSH-1440	Dissolved	Water	3005A	
240-45341-4	GW-120914-12636-SSH-1440	Total Recoverable	Water	3005A	
240-45341-5	GW-120914-12636-SSH-1441	Dissolved	Water	3005A	
240-45341-5	GW-120914-12636-SSH-1441	Total Recoverable	Water	3005A	
240-45341-6	GW-120914-12636-SSH-1442	Dissolved	Water	3005A	
240-45341-6	GW-120914-12636-SSH-1442	Total Recoverable	Water	3005A	
240-45341-7	GW-121014-12636-SSH-1443	Dissolved	Water	3005A	
240-45341-7	GW-121014-12636-SSH-1443	Total Recoverable	Water	3005A	
240-45341-7 MS	GW-121014-12636-SSH-1443	Dissolved	Water	3005A	
240-45341-7 MS	GW-121014-12636-SSH-1443	Total Recoverable	Water	3005A	
240-45341-7 MSD	GW-121014-12636-SSH-1443	Dissolved	Water	3005A	
240-45341-7 MSD	GW-121014-12636-SSH-1443	Total Recoverable	Water	3005A	
240-45341-8	GW-121014-12636-SSH-1444	Dissolved	Water	3005A	
240-45341-8	GW-121014-12636-SSH-1444	Total Recoverable	Water	3005A	
240-45341-9	GW-121014-12636-SSH-1445	Dissolved	Water	3005A	
240-45341-9	GW-121014-12636-SSH-1445	Total Recoverable	Water	3005A	
LCS 240-161008/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-161008/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 161644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-45341-7	GW-121014-12636-SSH-1443	Dissolved	Water	6010B	161008
240-45341-7	GW-121014-12636-SSH-1443	Total Recoverable	Water	6010B	161008
240-45341-7 MS	GW-121014-12636-SSH-1443	Dissolved	Water	6010B	161008
240-45341-7 MS	GW-121014-12636-SSH-1443	Total Recoverable	Water	6010B	161008
240-45341-7 MSD	GW-121014-12636-SSH-1443	Dissolved	Water	6010B	161008
240-45341-7 MSD	GW-121014-12636-SSH-1443	Total Recoverable	Water	6010B	161008
LCS 240-161008/2-A	Lab Control Sample	Total Recoverable	Water	6010B	161008
MB 240-161008/1-A	Method Blank	Total Recoverable	Water	6010B	161008

Analysis Batch: 161791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-45341-1	GW-120914-12636-SSH-1437	Dissolved	Water	6010B	161008
240-45341-1	GW-120914-12636-SSH-1437	Total Recoverable	Water	6010B	161008
240-45341-2	GW-120914-12636-SSH-1438	Dissolved	Water	6010B	161008
240-45341-2	GW-120914-12636-SSH-1438	Total Recoverable	Water	6010B	161008
240-45341-3	GW-120914-12636-SSH-1439	Dissolved	Water	6010B	161008
240-45341-3	GW-120914-12636-SSH-1439	Total Recoverable	Water	6010B	161008
240-45341-4	GW-120914-12636-SSH-1440	Dissolved	Water	6010B	161008
240-45341-4	GW-120914-12636-SSH-1440	Total Recoverable	Water	6010B	161008
240-45341-5	GW-120914-12636-SSH-1441	Dissolved	Water	6010B	161008
240-45341-5	GW-120914-12636-SSH-1441	Total Recoverable	Water	6010B	161008
240-45341-6	GW-120914-12636-SSH-1442	Dissolved	Water	6010B	161008
240-45341-6	GW-120914-12636-SSH-1442	Total Recoverable	Water	6010B	161008
240-45341-8	GW-121014-12636-SSH-1444	Dissolved	Water	6010B	161008

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Metals (Continued)

Analysis Batch: 161791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-45341-8	GW-121014-12636-SSH-1444	Total Recoverable	Water	6010B	161008
240-45341-9	GW-121014-12636-SSH-1445	Dissolved	Water	6010B	161008
240-45341-9	GW-121014-12636-SSH-1445	Total Recoverable	Water	6010B	161008

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-161008/1-A

Matrix: Water

Analysis Batch: 161644

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 161008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.05	J	15	0.46	ug/L		12/15/14 10:27	12/17/14 15:59	1
Lead	3.0	U	3.0	1.9	ug/L		12/15/14 10:27	12/17/14 15:59	1

Lab Sample ID: LCS 240-161008/2-A

Matrix: Water

Analysis Batch: 161644

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 161008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	510		ug/L		102	80 - 120
Lead	500	513		ug/L		103	80 - 120

Lab Sample ID: 240-45341-7 MS

Matrix: Water

Analysis Batch: 161644

Client Sample ID: GW-121014-12636-SSH-1443

Prep Type: Total Recoverable

Prep Batch: 161008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.2	J B	500	418		ug/L		83	75 - 125
Lead	3.0	U	500	418		ug/L		84	75 - 125

Lab Sample ID: 240-45341-7 MSD

Matrix: Water

Analysis Batch: 161644

Client Sample ID: GW-121014-12636-SSH-1443

Prep Type: Total Recoverable

Prep Batch: 161008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.2	J B	500	464		ug/L		93	75 - 125	11	20
Lead	3.0	U	500	450		ug/L		90	75 - 125	7	20

Lab Sample ID: 240-45341-7 MS

Matrix: Water

Analysis Batch: 161644

Client Sample ID: GW-121014-12636-SSH-1443

Prep Type: Dissolved

Prep Batch: 161008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	15	U	500	491		ug/L		98	75 - 125
Lead	3.0	U	500	477		ug/L		95	75 - 125

Lab Sample ID: 240-45341-7 MSD

Matrix: Water

Analysis Batch: 161644

Client Sample ID: GW-121014-12636-SSH-1443

Prep Type: Dissolved

Prep Batch: 161008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	15	U	500	467		ug/L		93	75 - 125	5	20
Lead	3.0	U	500	459		ug/L		92	75 - 125	4	20

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Client Sample ID: GW-120914-12636-SSH-1437

Lab Sample ID: 240-45341-1

Date Collected: 12/09/14 09:11

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 15:32	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 14:42	ADS	TAL CAN

Client Sample ID: GW-120914-12636-SSH-1438

Lab Sample ID: 240-45341-2

Date Collected: 12/09/14 10:31

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 15:36	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 14:46	ADS	TAL CAN

Client Sample ID: GW-120914-12636-SSH-1439

Lab Sample ID: 240-45341-3

Date Collected: 12/09/14 11:51

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 15:40	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 14:50	ADS	TAL CAN

Client Sample ID: GW-120914-12636-SSH-1440

Lab Sample ID: 240-45341-4

Date Collected: 12/09/14 13:06

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 15:44	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 14:54	ADS	TAL CAN

Client Sample ID: GW-120914-12636-SSH-1441

Lab Sample ID: 240-45341-5

Date Collected: 12/09/14 14:21

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 15:56	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Client Sample ID: GW-120914-12636-SSH-1441

Lab Sample ID: 240-45341-5

Date Collected: 12/09/14 14:21

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1	161791	12/18/14 15:06	ADS	TAL CAN

Client Sample ID: GW-120914-12636-SSH-1442

Lab Sample ID: 240-45341-6

Date Collected: 12/09/14 14:26

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 16:00	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 15:10	ADS	TAL CAN

Client Sample ID: GW-121014-12636-SSH-1443

Lab Sample ID: 240-45341-7

Date Collected: 12/10/14 09:06

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161644	12/17/14 16:35	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161644	12/17/14 16:15	ADS	TAL CAN

Client Sample ID: GW-121014-12636-SSH-1444

Lab Sample ID: 240-45341-8

Date Collected: 12/10/14 10:26

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 16:05	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 15:15	ADS	TAL CAN

Client Sample ID: GW-121014-12636-SSH-1445

Lab Sample ID: 240-45341-9

Date Collected: 12/10/14 11:41

Matrix: Water

Date Received: 12/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Dissolved	Analysis	6010B		1	161791	12/18/14 16:09	ADS	TAL CAN
Total Recoverable	Prep	3005A			161008	12/15/14 10:27	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	161791	12/18/14 15:19	ADS	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Laboratory References:

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

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Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-007, RACER Peregrine

TestAmerica Job ID: 240-45341-1

Laboratory: TestAmerica Canton

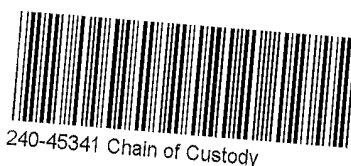
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

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

* Certification renewal pending - certification considered valid.

TestAmerica Canton

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-45341 Chain of Custody



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-13090

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 12636-TO9-003Y14		Laboratory Name: TestAmerica		Lab Location: North Canton OH		SSOW ID: 12636-TO9-007	
Project Name: Perrine / Coldwater Rd		Lab Contact: D. Hecker		Lab Quote No:		Carrier: FedEx	
Project Location: Genesee Twp, MI		SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: R. Fleisher		Matrix Code		Unpreserved		Total Containers/Sample	
Sampler(s): S. Hoeweney		DATE (mm/dd/yyyy)		TIME (hh:mm)		MS/MSD Request	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		Carrier: FedEx	
1 GW-120914-12636-SSH-1437		12/9/14		0911		Airbill No: 80618484 0777	
2 GW-120914-12636-SSH-1438		12/9/14		1031		Date Shipped: 12/10/14	
3 GW-120914-12636-SSH-1439		12/9/14		1151		COMMENTS/ SPECIAL INSTRUCTIONS:	
4 GW-120914-12636-SSH-1440		12/9/14		1306			
5 GW-120914-12636-SSH-1441		12/9/14		1421			
6 GW-120914-12636-SSH-1442		12/9/14		1426			
7 GW-121014-12636-SSH-1443		12/10/14		0906		X ms/msd	
8 GW-121014-12636-SSH-1444		12/10/14		1026			
9 GW-121014-12636-SSH-1445		12/10/14		1141			
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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-120914-12636-SSH-1437	240-45341-A-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1437	240-45341-B-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-120914-12636-SSH-1438	240-45341-A-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1438	240-45341-B-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-120914-12636-SSH-1439	240-45341-A-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1439	240-45341-B-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-120914-12636-SSH-1440	240-45341-A-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1440	240-45341-B-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-120914-12636-SSH-1441	240-45341-A-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1441	240-45341-B-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-120914-12636-SSH-1442	240-45341-A-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-120914-12636-SSH-1442	240-45341-B-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-121014-12636-SSH-1443	240-45341-A-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-121014-12636-SSH-1443	240-45341-B-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-121014-12636-SSH-1443	240-45341-C-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-121014-12636-SSH-1443	240-45341-D-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-121014-12636-SSH-1444	240-45341-A-8	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-121014-12636-SSH-1444	240-45341-B-8	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-121014-12636-SSH-1445	240-45341-A-9	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-121014-12636-SSH-1445	240-45341-B-9	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

To: Mike Tomka
FROM: Ruth Mickle/tl/167/Det
RE: Analytical Results and Reduced Validation
Groundwater Monitoring
RACER - Peregrine Site
Genesee County, Michigan
March 2015

REF. NO.: 012636
DATE: April 20, 2015

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected in support of the Groundwater Monitoring at the RACER - Peregrine Site in Genesee County, Michigan during March 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 Conestoga-Rovers & Associates (CRA) 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, laboratory control samples (LCS), matrix spikes (MS), 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 guidance from the documents entitled:

- i) "Quality Assurance Project Plan (QAPP) for the RCRA Facility Investigation (RFI) at Former Peregrine (US) Inc., Coldwater Road Facility, Genesee Township, Michigan", April 28, 2000
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- iii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

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

2.0 Sample Holding Time and Preservation

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

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

3.0 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 1 per 20 investigative samples and/or 1 per analytical batch.

Table 4 presents the metals data qualified for method blank contamination. Qualification was not required for analytes that were non-detect in investigative samples or were detected at levels greater than five times the method blank results. All remaining method blank results were non-detect, indicating laboratory contamination was not a factor.

4.0 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 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 analysis.

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

5.0 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 was analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS were within the laboratory control limits or outlying recoveries did not result in qualification, demonstrating acceptable analytical accuracy.

Inorganic Analyses

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

6.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses - Organic Analyses

To evaluate the effects of sample matrices on the extraction or digestion 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. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

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

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7.0 Field QA/QC Samples

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

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All trip blank results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with this duplicate sample 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.

The field duplicate result was within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8.0 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 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.

9.0 Conclusion

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

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Analysis/Parameters					Comments					
Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)						
TestAmerica SDG No: 240-48672-1										
	GW-12636-032515-SSH-15001	PFW-11	water	3/25/2015	12:41	X	-	X	X	MS/MSD
	GW-12636-032515-SSH-15002	MW-20-13	water	3/25/2015	13:46	X	-	X	X	
	GW-12636-032515-SSH-15003	MW-4-02	water	3/25/2015	14:56	X	-	X	X	
	GW-12636-032515-SSH-15004	PFW-1	water	3/25/2015	16:01	X	-	X	X	
	GW-12636-032515-SSH-15005	PFW-1	water	3/25/2015	16:02	X	-	X	X	Field duplicate of PFW-1
	TB-12636-032515-SSH-15006	Trip Blank	water	3/25/2015	15:00	X	-	-	-	Trip Blank
TestAmerica SDG No: 240-48694-1										
	GW-12636-032615-SSH-15006	PFW-4	water	3/26/2015	10:01	X	-	X	X	
	GW-12636-032615-SSH-15007	MW-18-13	water	3/26/2015	11:21	X	-	X	X	
	GW-12636-032615-SSH-15008	MW-16-10	water	3/26/2015	12:11	X	X		X	MS/MSD
	GW-12636-032615-SSH-15009	MW-17-13	water	3/26/2015	13:26	X	-	X	X	
	TB-12636-032615-SSH-15010	Trip Blank	water	3/26/2015	14:00	X	-	-	-	Trip Blank
	GW-12636-032615-SSH-15011	PFW-10	water	3/26/2015	14:51	X	X	-	X	
GW-12636-032615-SSH-15012	MW-19-13	water	3/26/2015	16:21	X	X	-	X		

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					TCL VOC	Dissolved TAL Site Metals	Total/Dissolved TAL Site Metals	Cyanide, Amenable	
TestAmerica SDG No: 240-48746-1									
GW-12636-032715-SSH-15013	B-27D	water	3/27/2015	9:06	X	X	-	X	MS/MSD
GW-12636-032715-SSH-15014	B-9	water	3/27/2015	10:26	X	X	-	X	
TB-12636-032715-SSH-15015	Trip Blank	water	3/27/2015	10:00	X	-	-	-	Trip Blank
GW-12636-032715-SSH-15016	PFW-2	water	3/27/2015	11:41	X	-	X	X	
GW-12636-032715-SSH-15017	MW-1	water	3/27/2015	12:16	X	-	X	X	MS/MSD
GW-12636-032715-SSH-15018	PFW-9	water	3/27/2015	13:46	X	-	X	X	
GW-12636-032715-SSH-15019	MW-2	water	3/27/2015	14:46	X	-	X	X	
GW-12636-032715-SSH-15020	MW-2	water	3/27/2015	14:47	X	-	X	X	Field duplicate of MW-2

Notes:

TCL VOC - Target Compound List Volatile Organic Compounds
TAL - Target Analyte List
MS/MSD - Matrix Spike/Matrix Spike Duplicate
SDG - Sample Delivery Group

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		B-9		B-27D		MW-1	
Sample ID:		GW-12636-032715-SSH-15014		GW-12636-032715-SSH-15013		GW-12636-032715-SSH-15017	
Sample Date:		3/27/2015		3/27/2015		3/27/2015	
Parameters		Units					
Volatile Organic Compounds							
1,1,1-Trichloroethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)		ug/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone		ug/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		ug/L	10 U	10 U	10 U	10 U	10 U
Acetone		ug/L	1.6 J	1.0 U	1.0 U	1.0 U	1.0 U
Benzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene		ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	B-9	B-27D	MW-1
Sample ID:	GW-12636-032715-SSH-15014	GW-12636-032715-SSH-15013	GW-12636-032715-SSH-15017
Sample Date:	3/27/2015	3/27/2015	3/27/2015
Parameters	Units		
<i>Volatile Organic Compounds</i>			
Chloroethane	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	0.43 J
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U
Isopropyl benzene	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U
Xylenes (total)	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		B-9		B-27D		MW-1	
Sample ID:		GW-12636-032715-SSH-15014		GW-12636-032715-SSH-15013		GW-12636-032715-SSH-15017	
Sample Date:		3/27/2015		3/27/2015		3/27/2015	
Parameters		Units					
Metals							
Aluminum	ug/L	-	-	-	-	160	
Aluminum (dissolved)	ug/L	50 U	50 U	50 U	50 U	50 U	
Antimony	ug/L	-	-	-	-	0.49 J	
Antimony (dissolved)	ug/L	0.73 J	0.57 J	0.57 J	0.57 J	0.24 J	
Arsenic	ug/L	-	-	-	-	5.0 U	
Arsenic (dissolved)	ug/L	6.1	34	34	34	5.0 U	
Barium	ug/L	-	-	-	-	20 J	
Barium (dissolved)	ug/L	10 J	200	200	200	21 J	
Beryllium	ug/L	-	-	-	-	1.0 U	
Beryllium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cadmium	ug/L	-	-	-	-	1.0 U	
Cadmium (dissolved)	ug/L	0.50 J	1.0 U	1.0 U	1.0 U	5.0 U	
Chromium	ug/L	-	-	-	-	5.0 U	
Chromium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	7.0 U	
Cobalt	ug/L	-	-	-	-	7.0 U	
Cobalt (dissolved)	ug/L	7.0 U	7.0 U	7.0 U	7.0 U	3.0	
Copper	ug/L	-	-	-	-	2.7	
Copper (dissolved)	ug/L	0.89 J	2.0 U	2.0 U	2.0 U	200	
Iron	ug/L	-	-	-	-	100 U	
Iron (dissolved)	ug/L	100 U	200	200	200	3.0 U	
Lead	ug/L	-	-	-	-	3.0 U	
Lead (dissolved)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	100	
Manganese	ug/L	-	-	-	-	18	
Manganese (dissolved)	ug/L	36	41	41	41	0.20 U	
Mercury	ug/L	-	-	-	-	0.20 U	
Mercury (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	1.4 J	
Nickel	ug/L	-	-	-	-	-	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		B-9		B-27D		MW-1	
Sample ID:		GW-12636-032715-SSH-15014		GW-12636-032715-SSH-15013		GW-12636-032715-SSH-15017	
Sample Date:		3/27/2015		3/27/2015		3/27/2015	
Parameters	Units						
Metals							
Nickel (dissolved)	ug/L	4.0 J	20 U			20 U	
Selenium	ug/L	-	-			5.0 U	
Selenium (dissolved)	ug/L	5.0 U	5.0 U			5.0 U	
Silver	ug/L	-	-			0.20 U	
Silver (dissolved)	ug/L	0.20 U	0.20 U			0.20 U	
Thallium	ug/L	-	-			1.0 U	
Thallium (dissolved)	ug/L	1.0 U	0.21 J			1.0 U	
Vanadium	ug/L	-	-			6.2	
Vanadium (dissolved)	ug/L	4.0 U	4.0 U			4.0	
Zinc	ug/L	-	-			16 J	
Zinc (dissolved)	ug/L	20 U	20 U			20 U	
General Chemistry							
Cyanide (amenable)	mg/L	0.0050 U	0.0050 U			0.0050 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-2		MW-2		MW-4-02	
Sample ID:		GW-12636-032715-SSH-15019		GW-12636-032715-SSH-15020		GW-12636-032515-SSH-15003	
Sample Date:		3/27/2015		3/27/2015		3/25/2015	
Parameters		Units		(Duplicate)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-2		MW-2		MW-4-02	
Sample ID:		GW-12636-032715-SSH-15019		GW-12636-032715-SSH-15020		GW-12636-032515-SSH-15003	
Sample Date:		3/27/2015		3/27/2015		3/25/2015	
Parameters		(Duplicate)					
Units							
Volatile Organic Compounds							
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-2		MW-2		MW-4-02	
Sample ID:		GW-12636-032715-SSH-15019		GW-12636-032715-SSH-15020		GW-12636-032515-SSH-15003	
Sample Date:		3/27/2015		3/27/2015		3/25/2015	
Parameters				(Duplicate)			
Units							
Metals							
Aluminum	ug/L	36 J	37 J	23 J	50 U	23 J	50 U
Aluminum (dissolved)	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Antimony	ug/L	0.62 J	0.63 J	0.63 J	0.63 J	2.0 U	2.0 U
Antimony (dissolved)	ug/L	0.55 J	0.55 J	0.55 J	0.55 J	2.0 U	2.0 U
Arsenic	ug/L	7.6	7.7	7.7	7.7	5.0 U	5.0 U
Arsenic (dissolved)	ug/L	7.6	6.2	6.2	6.2	5.0 U	5.0 U
Barium	ug/L	230	220	220	220	77 J	77 J
Barium (dissolved)	ug/L	220	220	220	220	77 J	77 J
Beryllium	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	0.39 J	0.50 J	0.50 J	0.50 J	0.35 J	0.35 J
Cadmium (dissolved)	ug/L	0.33 J	0.40 J	0.40 J	0.40 J	0.40 J	0.40 J
Chromium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.6 J	1.6 J
Chromium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	1.4 J	1.4 J
Cobalt	ug/L	8.8	8.6	8.6	8.6	7.0 U	7.0 U
Cobalt (dissolved)	ug/L	9.3	8.8	8.8	8.8	7.0 U	7.0 U
Copper	ug/L	3.1	3.1	3.1	3.1	2.0 U	2.0 U
Copper (dissolved)	ug/L	1.9 J	2.5	2.5	2.5	2.0 U	2.0 U
Iron	ug/L	2100	2100	2100	2100	37 J	37 J
Iron (dissolved)	ug/L	1900	1700	1700	1700	100 U	100 U
Lead	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Lead (dissolved)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	ug/L	1500	1500	1500	1500	2.6 J	2.6 J
Manganese (dissolved)	ug/L	1500	1500	1500	1500	0.99 J	0.99 J
Mercury	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	ug/L	6.7 J	6.5 J	6.5 J	6.5 J	20 U	20 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-2		MW-2		MW-4-02	
Sample ID:		GW-12636-032715-SSH-15019		GW-12636-032715-SSH-15020		GW-12636-032515-SSH-15003	
Sample Date:		3/27/2015		3/27/2015		3/25/2015	
Parameters				(Duplicate)			
Units							
Metals							
Nickel (dissolved)	ug/L	6.6 J	7.0 J	2.5 J	5.0 U	5.0 U	5.0 U
Selenium	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Selenium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Silver (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium	ug/L	0.25 J	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U
Thallium (dissolved)	ug/L	0.23 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Vanadium (dissolved)	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Zinc	ug/L	27	26	20 U	20 U	20 U	20 U
Zinc (dissolved)	ug/L	24	24	20 U	20 U	20 U	20 U
General Chemistry							
Cyanide (amenable)	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	MW-16-10	MW-17-13	MW-18-13
Sample ID:	GW-12636-032615-SSH-15008	GW-12636-032615-SSH-15009	GW-12636-032615-SSH-15007
Sample Date:	3/26/2015	3/26/2015	3/26/2015
Parameters	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	10 U	10 U	10 U
Acetone	10 U	10 U	10 U
Benzene	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	1.0 U	1.0 U	1.0 U
Carbon disulfide	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	MW-16-10	MW-17-13	MW-18-13
Sample ID:	GW-12636-032615-SSH-15008	GW-12636-032615-SSH-15009	GW-12636-032615-SSH-15007
Sample Date:	3/26/2015	3/26/2015	3/26/2015
Parameters	Units		
Volatile Organic Compounds			
Chloroethane	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U
Isopropyl benzene	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	1.0 U	1.0 U	1.0 U
Trifluorotrifluoroethane (Freon 113)	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U
Xylenes (total)	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-16-10		MW-17-13		MW-18-13	
Sample ID:		GW-12636-032615-SSH-15008		GW-12636-032615-SSH-15009		GW-12636-032615-SSH-15007	
Sample Date:		3/26/2015		3/26/2015		3/26/2015	
Parameters		Units					
Metals							
Aluminum	ug/L	-	11 J	50 U	50 U	50 U	50 U
Aluminum (dissolved)	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Antimony	ug/L	-	0.24 J	0.24 J	0.24 J	0.24 J	0.24 J
Antimony (dissolved)	ug/L	0.71 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	ug/L	-	15	15	15	15	3.6 J
Arsenic (dissolved)	ug/L	16	14	14	14	14	4.2 J
Barium	ug/L	-	160	160	160	160	170
Barium (dissolved)	ug/L	480	160	160	160	160	180
Beryllium	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Beryllium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	-	0.18 J	0.18 J	0.18 J	0.18 J	0.32 J
Cadmium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J
Chromium	ug/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chromium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	ug/L	-	1.1 J	1.1 J	1.1 J	1.1 J	7.0 U
Cobalt (dissolved)	ug/L	7.0 U	0.89 J	0.89 J	0.89 J	0.89 J	7.0 U
Copper	ug/L	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Copper (dissolved)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Iron	ug/L	-	9200	9200	9200	9200	100 U
Iron (dissolved)	ug/L	230	9200	9200	9200	9200	100 U
Lead	ug/L	-	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Lead (dissolved)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Manganese	ug/L	-	370	370	370	370	260
Manganese (dissolved)	ug/L	94	390	390	390	390	270
Mercury	ug/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	ug/L	-	1.7 J	1.7 J	1.7 J	1.7 J	1.7 J

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	MW-16-10	MW-17-13	MW-18-13
Sample ID:	GW-12636-032615-SSH-15008	GW-12636-032615-SSH-15009	GW-12636-032615-SSH-15007
Sample Date:	3/26/2015	3/26/2015	3/26/2015
Parameters			
Metals			
Nickel (dissolved)	3.0 J	2.0 J	2.5 J
Selenium	-	5.0 U	5.0 U
Selenium (dissolved)	5.0 U	5.0 U	5.0 U
Silver	-	0.20 U	0.20 U
Silver (dissolved)	0.20 U	0.20 U	0.20 U
Thallium	-	1.0 U	1.0 U
Thallium (dissolved)	0.26 J	1.0 U	1.0 U
Vanadium	-	4.0 U	4.0 U
Vanadium (dissolved)	4.0 U	4.0 U	4.0 U
Zinc	-	20 U	20 U
Zinc (dissolved)	20 U	20 U	20 U
General Chemistry			
Cyanide (amenable)	0.0050 U	0.0050 U	0.0050 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-19-13		MW-20-13		PFW-1	
Sample ID:		GW-12636-032615-SSH-15012		GW-12636-032515-SSH-15002		GW-12636-032515-SSH-15004	
Sample Date:		3/26/2015		3/25/2015		3/25/2015	
Parameters		Units					
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-19-13	MW-20-13	PFW-1
Sample ID:		GW-12636-032615-SSH-15012	GW-12636-032515-SSH-15002	GW-12636-032515-SSH-15004
Sample Date:		3/26/2015	3/25/2015	3/25/2015
Parameters	Units			
Volatile Organic Compounds				
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-19-13	MW-20-13	PFW-1
Sample ID:		GW-12636-032615-SSH-15012	GW-12636-032515-SSH-15002	GW-12636-032515-SSH-15004
Sample Date:		3/26/2015	3/25/2015	3/25/2015
Parameters	Units			
Metals				
Aluminum	ug/L	-	11 J	11 J
Aluminum (dissolved)	ug/L	50 U	50 U	50 U
Antimony	ug/L	-	2.0 U	2.0 U
Antimony (dissolved)	ug/L	0.24 J	2.0 U	2.0 U
Arsenic	ug/L	-	4.2 J	64
Arsenic (dissolved)	ug/L	4.2 J	3.5 J	43
Barium	ug/L	-	130	150
Barium (dissolved)	ug/L	120	120	140
Beryllium	ug/L	-	0.14 J	1.0 U
Beryllium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U
Cadmium	ug/L	-	1.0 U	0.27 J
Cadmium (dissolved)	ug/L	1.0 U	1.0 U	0.44 J
Chromium	ug/L	-	2.1 J	0.71 J
Chromium (dissolved)	ug/L	5.0 U	1.6 J	0.81 J
Cobalt	ug/L	-	7.0 U	7.0 U
Cobalt (dissolved)	ug/L	7.0 U	7.0 U	7.0 U
Copper	ug/L	-	2.0 U	2.0 U
Copper (dissolved)	ug/L	2.0 U	0.82 J	2.0 U
Iron	ug/L	-	18 J	2100
Iron (dissolved)	ug/L	100 U	100 U	1500
Lead	ug/L	-	2.5 J	2.3 J
Lead (dissolved)	ug/L	3.0 U	3.0 U	3.0 U
Manganese	ug/L	-	4.0 J	29
Manganese (dissolved)	ug/L	140	1.1 J	27
Mercury	ug/L	-	0.20 U	0.20 U
Mercury (dissolved)	ug/L	0.20 U	0.20 U	0.20 U
Nickel	ug/L	-	0.93 J	20 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		MW-19-13	MW-20-13	PFW-1
Sample ID:		GW-12636-032615-SSH-15012	GW-12636-032515-SSH-15002	GW-12636-032515-SSH-15004
Sample Date:		3/26/2015	3/25/2015	3/25/2015
Parameters	Units			
Metals				
Nickel (dissolved)	ug/L	13 J	1.7 J	20 U
Selenium	ug/L	-	5.0 U	5.0 U
Selenium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U
Silver	ug/L	-	0.20 U	0.20 U
Silver (dissolved)	ug/L	0.20 U	0.20 U	0.20 U
Thallium	ug/L	-	1.0 U	1.0 U
Thallium (dissolved)	ug/L	1.0 U	1.0 U	1.0 U
Vanadium	ug/L	-	4.0 U	4.0 U
Vanadium (dissolved)	ug/L	4.0 U	4.0 U	4.0 U
Zinc	ug/L	-	20 U	20 U
Zinc (dissolved)	ug/L	16 J	20 U	20 U
General Chemistry				
Cyanide (amenable)	mg/L	0.0050 U	0.0050 U	0.0050 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-1		PFW-4	
Sample ID:		GW-12636-032515-SSH-15005		GW-12636-032615-SSH-15006	
Sample Date:		3/25/2015		3/26/2015	
Parameters		(Duplicate)			
Units					
Volatile Organic Compounds					
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	ug/L	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-1		PFW-2		PFW-4	
Sample ID:		GW-12636-032515-SSH-15005		GW-12636-032715-SSH-15016		GW-12636-032615-SSH-15006	
Sample Date:		3/25/2015		3/27/2015		3/26/2015	
Parameters		(Duplicate)					
Units							
Metals							
Aluminum	ug/L	13 J	18 J			38 J	
Aluminum (dissolved)	ug/L	50 U	50 U			12 J	
Antimony	ug/L	2.0 U	0.55 J			0.21 J	
Antimony (dissolved)	ug/L	2.0 U	2.0 U			0.17 J	
Arsenic	ug/L	62	2.9 J			5.2	
Arsenic (dissolved)	ug/L	44	5.0 U			4.3 J	
Barium	ug/L	140	47 J			24 J	
Barium (dissolved)	ug/L	140	47 J			24 J	
Beryllium	ug/L	1.0 U	1.0 U			1.0 U	
Beryllium (dissolved)	ug/L	1.0 U	1.0 U			1.0 U	
Cadmium	ug/L	0.32 J	0.19 J			1.0 U	
Cadmium (dissolved)	ug/L	0.36 J	1.0 U			1.0 U	
Chromium	ug/L	1.4 J	5.0 U			5.0 U	
Chromium (dissolved)	ug/L	1.2 J	5.0 U			5.0 U	
Cobalt	ug/L	7.0 U	7.0 U			7.0 U	
Cobalt (dissolved)	ug/L	7.0 U	0.61 J			7.0 U	
Copper	ug/L	2.0 U	2.0 U			2.3 U	
Copper (dissolved)	ug/L	2.0 U	2.0 U			2.0 U	
Iron	ug/L	2100	1100			100 U	
Iron (dissolved)	ug/L	1500	990			100 U	
Lead	ug/L	3.0 U	3.0 U			2.7 J	
Lead (dissolved)	ug/L	1.9 J	3.0 U			3.0 U	
Manganese	ug/L	28	760			46	
Manganese (dissolved)	ug/L	28	870			49	
Mercury	ug/L	0.20 U	0.20 U			0.20 U	
Mercury (dissolved)	ug/L	0.20 U	0.20 U			0.20 U	
Nickel	ug/L	20 U	20 U			20 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-1		PFW-2		PFW-4	
Sample ID:		GW-12636-032515-SSH-15005		GW-12636-032715-SSH-15016		GW-12636-032615-SSH-15006	
Sample Date:		3/25/2015		3/27/2015		3/26/2015	
Parameters		(Duplicate)					
Units							
Metals							
Nickel (dissolved)	ug/L	2.4 J		20 U		0.98 J	
Selenium	ug/L	5.0 U		5.0 U		5.0 U	
Selenium (dissolved)	ug/L	5.0 U		5.0 U		5.0 U	
Silver	ug/L	0.20 U		0.20 U		0.20 U	
Silver (dissolved)	ug/L	0.20 U		0.20 U		0.20 U	
Thallium	ug/L	1.0 U		1.0 U		1.0 U	
Thallium (dissolved)	ug/L	1.0 U		1.0 U		1.0 U	
Vanadium	ug/L	4.0 U		3.7 J		4.0 U	
Vanadium (dissolved)	ug/L	4.0 U		2.7 J		4.0 U	
Zinc	ug/L	20 U		20 U		20 U	
Zinc (dissolved)	ug/L	20 U		20 U		20 U	
General Chemistry							
Cyanide (amenable)	mg/L	0.0050 U		0.0050 U		0.0050 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-9		PFW-10		PFW-11	
Sample ID:		GW-12636-032715-SSH-15018		GW-12636-032615-SSH-15011		GW-12636-032515-SSH-15001	
Sample Date:		3/27/2015		3/26/2015		3/25/2015	
Parameters		Units					
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	1.0 U		1.0 U		1.0 U	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U		1.0 U		1.0 U	
1,1,2-Trichloroethane	ug/L	1.0 U		1.0 U		1.0 U	
1,1-Dichloroethane	ug/L	1.0 U		1.0 U		1.0 U	
1,1-Dichloroethene	ug/L	1.0 U		1.0 U		1.0 U	
1,2,4-Trichlorobenzene	ug/L	1.0 U		1.0 U		1.0 U	
1,2,4-Trimethylbenzene	ug/L	1.0 U		1.0 U		1.0 U	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U		1.0 U		1.0 U	
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U		1.0 U		1.0 U	
1,2-Dichlorobenzene	ug/L	1.0 U		1.0 U		1.0 U	
1,2-Dichloroethane	ug/L	1.0 U		1.0 U		1.0 U	
1,2-Dichloropropane	ug/L	1.0 U		1.0 U		1.0 U	
1,3,5-Trimethylbenzene	ug/L	1.0 U		1.0 U		1.0 U	
1,3-Dichlorobenzene	ug/L	1.0 U		1.0 U		1.0 U	
1,4-Dichlorobenzene	ug/L	1.0 U		1.0 U		1.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U		10 U		10 U	
2-Hexanone	ug/L	10 U		10 U		10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U		10 U		10 U	
Acetone	ug/L	1.7 J		10 U		10 U	
Benzene	ug/L	1.0 U		1.0 U		1.0 U	
Bromodichloromethane	ug/L	1.0 U		1.0 U		1.0 U	
Bromoform	ug/L	1.0 U		1.0 U		1.0 U	
Bromomethane (Methyl bromide)	ug/L	1.0 U		1.0 U		1.0 U	
Carbon disulfide	ug/L	5.0 U		5.0 U		5.0 U	
Carbon tetrachloride	ug/L	1.0 U		1.0 U		1.0 U	
Chlorobenzene	ug/L	1.0 U		1.0 U		1.0 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-9		PFW-10		PFW-11	
Sample ID:		GW-12636-032715-SSH-15018		GW-12636-032615-SSH-15011		GW-12636-032515-SSH-15001	
Sample Date:		3/27/2015		3/26/2015		3/25/2015	
Parameters		Units					
Volatile Organic Compounds							
Chloroethane	ug/L	1.0 U		1.0 U		1.0 U	
Chloroform (Trichloromethane)	ug/L	1.0 U		1.0 U		1.0 U	
Chloromethane (Methyl chloride)	ug/L	1.0 U		1.0 U		1.0 U	
cis-1,2-Dichloroethene	ug/L	1.0 U		1.0 U		1.0 U	
cis-1,3-Dichloropropene	ug/L	1.0 U		1.0 U		1.0 U	
Cyclohexane	ug/L	1.0 U		1.0 U		1.0 U	
Dibromochloromethane	ug/L	1.0 U		1.0 U		1.0 U	
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U		1.0 U		1.0 U	
Ethylbenzene	ug/L	1.0 U		1.0 U		1.0 U	
Isopropyl benzene	ug/L	1.0 U		1.0 U		1.0 U	
Methyl acetate	ug/L	10 U		10 U		10 U	
Methyl cyclohexane	ug/L	1.0 U		1.0 U		1.0 U	
Methyl tert butyl ether (MTBE)	ug/L	1.0 U		1.0 U		1.0 U	
Methylene chloride	ug/L	5.0 U		5.0 U		5.0 U	
Styrene	ug/L	1.0 U		1.0 U		1.0 U	
Tetrachloroethene	ug/L	1.0 U		1.0 U		1.0 U	
Toluene	ug/L	1.0 U		1.0 U		1.0 U	
trans-1,2-Dichloroethene	ug/L	1.0 U		1.0 U		1.0 U	
trans-1,3-Dichloropropene	ug/L	1.0 U		1.0 U		1.0 U	
Trichloroethene	ug/L	1.0 U		1.0 U		1.0 U	
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U		1.0 U		1.0 U	
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U		1.0 U		1.0 U	
Vinyl chloride	ug/L	1.0 U		1.0 U		1.0 U	
Xylenes (total)	ug/L	2.0 U		2.0 U		2.0 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-9		PFW-10		PFW-11	
Sample ID:		GW-12636-032715-SSH-15018		GW-12636-032615-SSH-15011		GW-12636-032515-SSH-15001	
Sample Date:		3/27/2015		3/26/2015		3/25/2015	
		-		-		-	
Parameters		Units					
Metals							
Aluminum	ug/L	50 U	-	-	-	59	
Aluminum (dissolved)	ug/L	50 U	50 U	-	-	50 U	
Antimony	ug/L	0.23 J	-	-	-	2.0 U	
Antimony (dissolved)	ug/L	0.16 J	0.33 J	-	-	2.0 U	
Arsenic	ug/L	5.0 U	-	-	-	4.3 J	
Arsenic (dissolved)	ug/L	5.0 U	5.0 U	-	-	3.9 J	
Barium	ug/L	36 J	-	-	-	44 J	
Barium (dissolved)	ug/L	36 J	34 J	-	-	42 J	
Beryllium	ug/L	1.0 U	-	-	-	1.0 U	
Beryllium (dissolved)	ug/L	1.0 U	1.0 U	-	-	1.0 U	
Cadmium	ug/L	1.0 U	-	-	-	1.0 U	
Cadmium (dissolved)	ug/L	1.0 U	0.45 J	-	-	1.0 U	
Chromium	ug/L	5.0 U	-	-	-	1.2 J	
Chromium (dissolved)	ug/L	5.0 U	5.0 U	-	-	1.1 J	
Cobalt	ug/L	7.0 U	-	-	-	7.0 U	
Cobalt (dissolved)	ug/L	7.0 U	7.0 U	-	-	0.98 J	
Copper	ug/L	0.81 J	-	-	-	1.9 J	
Copper (dissolved)	ug/L	1.1 J	6.9	-	-	1.7 J	
Iron	ug/L	100 U	-	-	-	67 J	
Iron (dissolved)	ug/L	100 U	100 U	-	-	100 U	
Lead	ug/L	3.0 U	-	-	-	3.0 U	
Lead (dissolved)	ug/L	3.0 U	3.0 U	-	-	2.3 J	
Manganese	ug/L	15 U	-	-	-	15	
Manganese (dissolved)	ug/L	15 U	23	-	-	8.5 J	
Mercury	ug/L	0.20 U	-	-	-	0.20 U	
Mercury (dissolved)	ug/L	0.20 U	0.20 U	-	-	0.20 U	
Nickel	ug/L	20 U	-	-	-	20 U	

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:		PFW-9		PFW-10		PFW-11	
Sample ID:		GW-12636-032715-SSH-15018		GW-12636-032615-SSH-15011		GW-12636-032515-SSH-15001	
Sample Date:		3/27/2015		3/26/2015		3/25/2015	
Parameters	Units						
Metals							
Nickel (dissolved)	ug/L	0.80 J	3.7 J	2.3 J			
Selenium	ug/L	5.0 U	-	5.0 U			
Selenium (dissolved)	ug/L	5.0 U	5.0 U	5.0 U			
Silver	ug/L	0.20 U	-	0.20 U			
Silver (dissolved)	ug/L	0.20 U	0.20 U	0.20 U			
Thallium	ug/L	1.0 U	-	0.18 J			
Thallium (dissolved)	ug/L	1.0 U	1.0 U	0.24 J			
Vanadium	ug/L	3.1 J	-	4.0 U			
Vanadium (dissolved)	ug/L	5.5	4.0 U	4.0 U			
Zinc	ug/L	20 U	-	13 J			
Zinc (dissolved)	ug/L	20 U	32	20 U			
General Chemistry							
Cyanide (amenable)	mg/L	0.0050 U	0.0050 U	0.0050 U			

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	Trip Blank	Trip Blank	Trip Blank
Sample ID:	TB-12636-032515-SSH-15006	TB-12636-032615-SSH-15010	TB-12636-032715-SSH-15015
Sample Date:	3/25/2015	3/26/2015	3/27/2015
Parameters	(other)	(other)	(other)
Units			
Volatile Organic Compounds			
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	1.0 U	1.0 U	1.0 U
2-Hexanone	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	10 U	10 U	10 U
Acetone	10 U	10 U	10 U
Benzene	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	1.0 U	1.0 U	1.0 U
Carbon disulfide	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	Trip Blank	Trip Blank	Trip Blank
Sample ID:	TB-12636-032515-SSH-15006	TB-12636-032615-SSH-15010	TB-12636-032715-SSH-15015
Sample Date:	3/25/2015	3/26/2015	3/27/2015
Parameters	(other)	(other)	(other)
Units			
Volatile Organic Compounds			
Chloroethane	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Cyclohexane	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U
Isopropyl benzene	1.0 U	1.0 U	1.0 U
Methyl acetate	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	1.0 U	1.0 U	1.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U
Styrene	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U
Xylenes (total)	2.0 U	2.0 U	2.0 U

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:	Trip Blank	Trip Blank	Trip Blank
Sample ID:	TB-12636-032515-SSH-15006	TB-12636-032615-SSH-15010	TB-12636-032715-SSH-15015
Sample Date:	3/25/2015	3/26/2015	3/27/2015
Parameters	(other)	(other)	(other)
Units			
Metals			
Aluminum	ug/L	-	-
Aluminum (dissolved)	ug/L	-	-
Antimony	ug/L	-	-
Antimony (dissolved)	ug/L	-	-
Arsenic	ug/L	-	-
Arsenic (dissolved)	ug/L	-	-
Barium	ug/L	-	-
Barium (dissolved)	ug/L	-	-
Beryllium	ug/L	-	-
Beryllium (dissolved)	ug/L	-	-
Cadmium	ug/L	-	-
Cadmium (dissolved)	ug/L	-	-
Chromium	ug/L	-	-
Chromium (dissolved)	ug/L	-	-
Cobalt	ug/L	-	-
Cobalt (dissolved)	ug/L	-	-
Copper	ug/L	-	-
Copper (dissolved)	ug/L	-	-
Iron	ug/L	-	-
Iron (dissolved)	ug/L	-	-
Lead	ug/L	-	-
Lead (dissolved)	ug/L	-	-
Manganese	ug/L	-	-
Manganese (dissolved)	ug/L	-	-
Mercury	ug/L	-	-
Mercury (dissolved)	ug/L	-	-
Nickel	ug/L	-	-

TABLE 2

VALIDATED ANALYTICAL SUMMARY RESULTS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

Sample Location:					
Sample ID:					
Sample Date:					
Parameters	Units	Trip Blank	Trip Blank	Trip Blank	Trip Blank
		TB-12636-032515-SSH-15006	TB-12636-032615-SSH-15010	TB-12636-032715-SSH-15015	
		3/25/2015	3/26/2015	3/27/2015	
		(other)	(other)	(other)	
Metals					
Nickel (dissolved)	ug/L	-	-	-	-
Selenium	ug/L	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-
Silver	ug/L	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-
Thallium	ug/L	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-
Vanadium	ug/L	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-
Zinc	ug/L	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-
General Chemistry					
Cyanide (amenable)	mg/L	-	-	-	-

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (Days)</i>	<i>Collection or Extraction to Analysis (Days)</i>
TCL VOC	SW-846 8260	Water	-	14
Total and Dissolved Site TAL Metals (except Mercury)	SW-846 6010B/6020	Water	-	180
Total and Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide (Amenable)	SW-846 9012	Water	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
TCL VOC - Target Compound List Volatile Organic Compounds
TAL - Target Analyte List

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
Total Site TAL Metals	Antimony	3/30/2015	0.180 J	GW-12636-032515-SSH-15001	0.76 JB	2.0 U	µg/L
				GW-12636-032515-SSH-15002	0.28 JB	2.0 U	µg/L
				GW-12636-032515-SSH-15003	0.24 JB	2.0 U	µg/L
				GW-12636-032515-SSH-15004	0.22 JB	2.0 U	µg/L
				GW-12636-032515-SSH-15005	0.22 JB	2.0 U	µg/L
Dissolved Site TAL Metals	Antimony	3/30/2015	0.180 J	GW-12636-032515-SSH-15001	0.73 JB	2.0 U	µg/L
				GW-12636-032515-SSH-15002	0.26 JB	2.0 U	µg/L
Total Site TAL Metals	Chromium	3/31/2015	0.663 J	GW-12636-032615-SSH-15006	0.67 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15007	1.0 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15009	1.5 JB	5.0 U	µg/L
Dissolved Site TAL Metals	Chromium	3/31/2015	0.663 J	GW-12636-032615-SSH-15006	0.60 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15007	1.5 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15008	0.89 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15009	1.6 JB	5.0 U	µg/L
				GW-12636-032615-SSH-15011	1.9 JB	5.0 U	µg/L
Total Site TAL Metals	Chromium	3/31/2015	1.60 J	GW-12636-032615-SSH-15012	1.5 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15016	0.72 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15018	1.3 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15019	1.8 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15020	2.0 JB	5.0 U	µg/L
Dissolved Site TAL Metals	Chromium	3/31/2015	1.60 J	GW-12636-032715-SSH-15013	1.0 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15014	1.5 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15016	1.6 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15018	1.0 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15019	1.8 JB	5.0 U	µg/L
				GW-12636-032715-SSH-15020	1.3 JB	5.0 U	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING
RACER - PEREGRINE SITE
GENESEE COUNTY, MICHIGAN
MARCH 2015

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
Total Site TAL Metals	Copper	3/31/2015	0.851 J	GW-12636-032615-SSH-15006	2.3 B	2.0 U	µg/L
Dissolved Site TAL Metals	Copper	3/31/2015	0.851 J	GW-12636-032615-SSH-15006	1.2 JB	2.0 U	µg/L
				GW-12636-032615-SSH-15007	0.80 JB	2.0 U	µg/L
				GW-12636-032615-SSH-15012	1.2 JB	2.0 U	µg/L
Total Site TAL Metals	Iron	3/31/2015	14.7 J	GW-12636-032615-SSH-15006	42 JB	100 U	µg/L
				GW-12636-032615-SSH-15007	17 JB	100 U	µg/L
Total Site TAL Metals	Iron	3/31/2015	22.2 J	GW-12636-032715-SSH-15018	27 JB	100 U	µg/L
Total Site TAL Metals	Manganese	3/31/2015	22.2 J	GW-12636-032715-SSH-15018	0.974 JB	15 U	µg/L
Total Site TAL Metals	Vanadium	3/31/2015	3.10 J	GW-12636-032515-SSH-15003	2.9 JB	4.0 U	µg/L
				GW-12636-032515-SSH-15005	4.0 B	4.0 U	µg/L
Dissolved Site TAL Metals	Vanadium	3/31/2015	3.10 J	GW-12636-032515-SSH-15002	3.5 JB	4.0 U	µg/L
				GW-12636-032515-SSH-15005	2.8 JB	4.0 U	µg/L
Total Site TAL Metals	Vanadium	3/31/2015	4.48 J	GW-12636-032615-SSH-15007	3.8 JB	4.0 U	µg/L
Dissolved Site TAL Metals	Vanadium	3/31/2015	4.48 J	GW-12636-032615-SSH-15006	2.5 JB	4.0 U	µg/L
				GW-12636-032615-SSH-15007	3.7 JB	4.0 U	µg/L
				GW-12636-032615-SSH-15012	2.4 JB	4.0 U	µg/L

Notes:

U - Not detected at the associated reporting limit

J - Estimated concentration

B - Laboratory qualifier - result detected in associated method blank

TAL - Target Analyte List

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: 240-48694-1

Client Project/Site: 12636-T09-008, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

4/6/2015 8:51:00 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Job ID: 240-48694-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-008, RACER Peregrine

Report Number: 240-48694-1

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 03/27/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.5 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2), GW-12636-032615-SSH-15008 (240-48694-3), GW-12636-032615-SSH-15009 (240-48694-4), TB-12636-032615-SSH-15010 (240-48694-5), GW-12636-032615-SSH-15011 (240-48694-6) and GW-12636-032615-SSH-15012 (240-48694-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/02/2015.

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

DISSOLVED METALS (ICP)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2), GW-12636-032615-SSH-15008 (240-48694-3), GW-12636-032615-SSH-15009 (240-48694-4), GW-12636-032615-SSH-15011 (240-48694-6) and GW-12636-032615-SSH-15012 (240-48694-7) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Job ID: 240-48694-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2) and GW-12636-032615-SSH-15009 (240-48694-4) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

Vanadium was detected in method blank MB 240-174257/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Barium, Chromium and Iron were detected in method blank MB 240-174257/1-A 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.

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

DISSOLVED METALS (ICPMS)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2), GW-12636-032615-SSH-15008 (240-48694-3), GW-12636-032615-SSH-15009 (240-48694-4), GW-12636-032615-SSH-15011 (240-48694-6) and GW-12636-032615-SSH-15012 (240-48694-7) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2) and GW-12636-032615-SSH-15009 (240-48694-4) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Copper was detected in method blank MB 240-174257/1-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.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

DISSOLVED MERCURY (CVAA)

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2), GW-12636-032615-SSH-15008 (240-48694-3), GW-12636-032615-SSH-15009 (240-48694-4), GW-12636-032615-SSH-15011 (240-48694-6) and GW-12636-032615-SSH-15012 (240-48694-7) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/31/2015.

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

TOTAL MERCURY

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2) and

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Job ID: 240-48694-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-12636-032615-SSH-15009 (240-48694-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/31/2015.

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

AMENABLE CYANIDE

Samples GW-12636-032615-SSH-15006 (240-48694-1), GW-12636-032615-SSH-15007 (240-48694-2), GW-12636-032615-SSH-15008 (240-48694-3), GW-12636-032615-SSH-15009 (240-48694-4), GW-12636-032615-SSH-15011 (240-48694-6) and GW-12636-032615-SSH-15012 (240-48694-7) were analyzed for amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were analyzed on 03/27/2015.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48694-1	GW-12636-032615-SSH-15006	Water	03/26/15 10:01	03/27/15 09:30
240-48694-2	GW-12636-032615-SSH-15007	Water	03/26/15 11:21	03/27/15 09:30
240-48694-3	GW-12636-032615-SSH-15008	Water	03/26/15 12:11	03/27/15 09:30
240-48694-4	GW-12636-032615-SSH-15009	Water	03/26/15 13:26	03/27/15 09:30
240-48694-5	TB-12636-032615-SSH-15010	Water	03/26/15 14:00	03/27/15 09:30
240-48694-6	GW-12636-032615-SSH-15011	Water	03/26/15 14:51	03/27/15 09:30
240-48694-7	GW-12636-032615-SSH-15012	Water	03/26/15 16:21	03/27/15 09:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15006

Lab Sample ID: 240-48694-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		5.0	2.9	ug/L	1		6010B	Total
Barium	24	J B	100	1.0	ug/L	1		6010B	Recoverable
Chromium	0.67	J B	5.0	0.55	ug/L	1		6010B	Total
Iron	42	J B	100	13	ug/L	1		6010B	Recoverable
Manganese	46		15	0.46	ug/L	1		6010B	Total
Lead	2.7	J	3.0	1.9	ug/L	1		6010B	Recoverable
Arsenic	4.3	J	5.0	2.9	ug/L	1		6010B	Total
Barium	24	J B	100	1.0	ug/L	1		6010B	Dissolved
Chromium	0.60	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	49		15	0.46	ug/L	1		6010B	Dissolved
Nickel	0.98	J	20	0.76	ug/L	1		6010B	Dissolved
Vanadium	2.5	J B ^	4.0	2.4	ug/L	1		6010B	Dissolved
Aluminum	38	J	50	9.0	ug/L	1		6020	Total
Antimony	0.21	J	2.0	0.16	ug/L	1		6020	Recoverable
Copper	2.3	B	2.0	0.75	ug/L	1		6020	Total
Aluminum	12	J	50	9.0	ug/L	1		6020	Recoverable
Antimony	0.17	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	1.2	J B	2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032615-SSH-15007

Lab Sample ID: 240-48694-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6	J	5.0	2.9	ug/L	1		6010B	Total
Barium	170	B	100	1.0	ug/L	1		6010B	Recoverable
Cadmium	0.32	J	1.0	0.14	ug/L	1		6010B	Total
Chromium	1.0	J B	5.0	0.55	ug/L	1		6010B	Recoverable
Iron	17	J B	100	13	ug/L	1		6010B	Total
Manganese	260		15	0.46	ug/L	1		6010B	Recoverable
Nickel	1.7	J	20	0.76	ug/L	1		6010B	Total
Vanadium	3.8	J B ^	4.0	2.4	ug/L	1		6010B	Recoverable
Arsenic	4.2	J	5.0	2.9	ug/L	1		6010B	Total
Barium	180	B	100	1.0	ug/L	1		6010B	Dissolved
Cadmium	0.24	J	1.0	0.14	ug/L	1		6010B	Dissolved
Chromium	1.5	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	270		15	0.46	ug/L	1		6010B	Dissolved
Nickel	2.5	J	20	0.76	ug/L	1		6010B	Dissolved
Vanadium	3.7	J B ^	4.0	2.4	ug/L	1		6010B	Dissolved
Copper	0.80	J B	2.0	0.75	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15008

Lab Sample ID: 240-48694-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	16		5.0	2.9	ug/L	1			6010B	Dissolved
Barium	480	B	100	1.0	ug/L	1			6010B	Dissolved
Chromium	0.89	J B	5.0	0.55	ug/L	1			6010B	Dissolved
Iron	230	B	100	13	ug/L	1			6010B	Dissolved
Manganese	94		15	0.46	ug/L	1			6010B	Dissolved
Nickel	3.0	J	20	0.76	ug/L	1			6010B	Dissolved
Antimony	0.71	J	2.0	0.16	ug/L	1			6020	Dissolved
Thallium	0.26	J	1.0	0.074	ug/L	1			6020	Dissolved

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	15		5.0	2.9	ug/L	1			6010B	Total
Barium	160	B	100	1.0	ug/L	1			6010B	Recoverable
Cadmium	0.18	J	1.0	0.14	ug/L	1			6010B	Total
Cobalt	1.1	J	7.0	0.56	ug/L	1			6010B	Recoverable
Chromium	1.5	J B	5.0	0.55	ug/L	1			6010B	Total
Iron	9200	B	100	13	ug/L	1			6010B	Recoverable
Manganese	370		15	0.46	ug/L	1			6010B	Total
Nickel	1.7	J	20	0.76	ug/L	1			6010B	Recoverable
Arsenic	14		5.0	2.9	ug/L	1			6010B	Dissolved
Barium	160	B	100	1.0	ug/L	1			6010B	Dissolved
Cobalt	0.89	J	7.0	0.56	ug/L	1			6010B	Dissolved
Chromium	1.6	J B	5.0	0.55	ug/L	1			6010B	Dissolved
Iron	9200	B	100	13	ug/L	1			6010B	Dissolved
Manganese	390		15	0.46	ug/L	1			6010B	Dissolved
Nickel	2.0	J	20	0.76	ug/L	1			6010B	Dissolved
Aluminum	11	J	50	9.0	ug/L	1			6020	Total
Antimony	0.24	J	2.0	0.16	ug/L	1			6020	Recoverable

Client Sample ID: TB-12636-032615-SSH-15010

Lab Sample ID: 240-48694-5

No Detections.

Client Sample ID: GW-12636-032615-SSH-15011

Lab Sample ID: 240-48694-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	34	J B	100	1.0	ug/L	1			6010B	Dissolved
Cadmium	0.45	J	1.0	0.14	ug/L	1			6010B	Dissolved
Chromium	1.9	J B	5.0	0.55	ug/L	1			6010B	Dissolved
Manganese	23		15	0.46	ug/L	1			6010B	Dissolved
Nickel	3.7	J	20	0.76	ug/L	1			6010B	Dissolved
Zinc	32		20	9.6	ug/L	1			6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15011 (Continued)

Lab Sample ID: 240-48694-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.33	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	6.9	B	2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032615-SSH-15012

Lab Sample ID: 240-48694-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2	J	5.0	2.9	ug/L	1		6010B	Dissolved
Barium	120	B	100	1.0	ug/L	1		6010B	Dissolved
Chromium	1.5	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	140		15	0.46	ug/L	1		6010B	Dissolved
Nickel	13	J	20	0.76	ug/L	1		6010B	Dissolved
Vanadium	2.4	J B ^	4.0	2.4	ug/L	1		6010B	Dissolved
Zinc	16	J	20	9.6	ug/L	1		6010B	Dissolved
Antimony	0.24	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	1.2	J B	2.0	0.75	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Amenable	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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15006

Lab Sample ID: 240-48694-1

Date Collected: 03/26/15 10:01

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 18:42	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 18:42	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 18:42	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 18:42	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 18:42	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 18:42	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 18:42	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 18:42	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 18:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 18:42	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 18:42	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 18:42	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 18:42	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 18:42	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 18:42	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 18:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 18:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 18:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 18:42	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 18:42	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 18:42	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 18:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 18:42	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 18:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 18:42	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 18:42	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 18:42	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 18:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 18:42	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 18:42	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 18:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 18:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 18:42	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 18:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 18:42	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 18:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 18:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 18:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 18:42	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 18:42	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 18:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 18:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 18:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 18:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 18:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 18:42	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 18:42	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 18:42	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15006

Lab Sample ID: 240-48694-1

Date Collected: 03/26/15 10:01

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 129					04/02/15 18:42	1
4-Bromofluorobenzene (Surr)	78		66 - 120					04/02/15 18:42	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 18:42	1
Dibromofluoromethane (Surr)	89		75 - 121					04/02/15 18:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 19:05	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:05	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 19:05	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 19:05	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:05	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 19:05	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 19:05	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 19:05	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:05	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 19:05	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:05	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 19:05	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 19:05	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 19:05	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 19:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 19:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 19:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 19:05	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:05	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 19:05	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 19:05	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 19:05	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 19:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 19:05	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 19:05	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 19:05	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 19:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 19:05	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 19:05	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 19:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 19:05	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 19:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 19:05	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 19:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 19:05	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:05	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 19:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 19:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 19:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 19:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 19:05	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 19:05	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 19:05	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15007

Lab Sample ID: 240-48694-2

Date Collected: 03/26/15 11:21

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 129					04/02/15 19:05	1
4-Bromofluorobenzene (Surr)	80		66 - 120					04/02/15 19:05	1
Toluene-d8 (Surr)	90		74 - 120					04/02/15 19:05	1
Dibromofluoromethane (Surr)	91		75 - 121					04/02/15 19:05	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15008

Date Collected: 03/26/15 12:11

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 19:27	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:27	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 19:27	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 19:27	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:27	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 19:27	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 19:27	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 19:27	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:27	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 19:27	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:27	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 19:27	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 19:27	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 19:27	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 19:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 19:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 19:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 19:27	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:27	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 19:27	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 19:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 19:27	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 19:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 19:27	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 19:27	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 19:27	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 19:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 19:27	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 19:27	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 19:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 19:27	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 19:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 19:27	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 19:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 19:27	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:27	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 19:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 19:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 19:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 19:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 19:27	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 19:27	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 19:27	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15008

Lab Sample ID: 240-48694-3

Date Collected: 03/26/15 12:11

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/02/15 19:27	1
4-Bromofluorobenzene (Surr)	78		66 - 120					04/02/15 19:27	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 19:27	1
Dibromofluoromethane (Surr)	90		75 - 121					04/02/15 19:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 19:49	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:49	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 19:49	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 19:49	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:49	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 19:49	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 19:49	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 19:49	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:49	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 19:49	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:49	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 19:49	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 19:49	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 19:49	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 19:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 19:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 19:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 19:49	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:49	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 19:49	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 19:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 19:49	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 19:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 19:49	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 19:49	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 19:49	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 19:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 19:49	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 19:49	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 19:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 19:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 19:49	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 19:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 19:49	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 19:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 19:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 19:49	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 19:49	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 19:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 19:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 19:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 19:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 19:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 19:49	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 19:49	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 19:49	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/02/15 19:49	1
4-Bromofluorobenzene (Surr)	74		66 - 120					04/02/15 19:49	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 19:49	1
Dibromofluoromethane (Surr)	92		75 - 121					04/02/15 19:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: TB-12636-032615-SSH-15010

Date Collected: 03/26/15 14:00

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 20:12	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:12	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 20:12	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 20:12	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:12	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 20:12	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 20:12	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 20:12	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:12	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 20:12	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:12	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 20:12	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 20:12	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 20:12	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 20:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 20:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 20:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 20:12	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:12	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 20:12	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 20:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 20:12	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 20:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 20:12	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 20:12	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 20:12	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 20:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 20:12	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 20:12	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 20:12	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 20:12	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 20:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 20:12	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 20:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 20:12	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:12	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 20:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 20:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 20:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 20:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 20:12	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 20:12	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 20:12	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: TB-12636-032615-SSH-15010

Lab Sample ID: 240-48694-5

Date Collected: 03/26/15 14:00

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/02/15 20:12	1
4-Bromofluorobenzene (Surr)	77		66 - 120					04/02/15 20:12	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 20:12	1
Dibromofluoromethane (Surr)	90		75 - 121					04/02/15 20:12	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15011

Date Collected: 03/26/15 14:51

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 20:35	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:35	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 20:35	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 20:35	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:35	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 20:35	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 20:35	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 20:35	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:35	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 20:35	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:35	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 20:35	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 20:35	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 20:35	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 20:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 20:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 20:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 20:35	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:35	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 20:35	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 20:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 20:35	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 20:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 20:35	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 20:35	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 20:35	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 20:35	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 20:35	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 20:35	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 20:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 20:35	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 20:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 20:35	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 20:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 20:35	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:35	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 20:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 20:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 20:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 20:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 20:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 20:35	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 20:35	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 20:35	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15011

Lab Sample ID: 240-48694-6

Date Collected: 03/26/15 14:51

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 129					04/02/15 20:35	1
4-Bromofluorobenzene (Surr)	76		66 - 120					04/02/15 20:35	1
Toluene-d8 (Surr)	88		74 - 120					04/02/15 20:35	1
Dibromofluoromethane (Surr)	93		75 - 121					04/02/15 20:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15012

Date Collected: 03/26/15 16:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 20:57	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:57	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 20:57	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 20:57	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:57	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 20:57	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 20:57	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 20:57	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:57	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 20:57	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:57	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 20:57	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 20:57	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 20:57	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 20:57	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 20:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 20:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 20:57	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:57	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 20:57	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 20:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 20:57	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 20:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 20:57	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 20:57	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 20:57	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 20:57	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 20:57	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 20:57	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 20:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 20:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 20:57	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 20:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 20:57	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 20:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 20:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 20:57	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 20:57	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 20:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 20:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 20:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 20:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 20:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 20:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 20:57	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 20:57	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 20:57	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15012

Lab Sample ID: 240-48694-7

Date Collected: 03/26/15 16:21

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/02/15 20:57	1
4-Bromofluorobenzene (Surr)	76		66 - 120					04/02/15 20:57	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 20:57	1
Dibromofluoromethane (Surr)	94		75 - 121					04/02/15 20:57	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		5.0	2.9	ug/L		03/30/15 09:50	03/31/15 15:55	1
Barium	24	J B	100	1.0	ug/L		03/30/15 09:50	03/31/15 15:55	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 15:55	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 15:55	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 15:55	1
Chromium	0.67	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 15:55	1
Iron	42	J B	100	13	ug/L		03/30/15 09:50	03/31/15 15:55	1
Manganese	46		15	0.46	ug/L		03/30/15 09:50	03/31/15 15:55	1
Nickel	20	U	20	0.76	ug/L		03/30/15 09:50	03/31/15 15:55	1
Lead	2.7	J	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 15:55	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 15:55	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 15:55	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 15:55	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15007

Lab Sample ID: 240-48694-2

Date Collected: 03/26/15 11:21

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6	J	5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:04	1
Barium	170	B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:04	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:04	1
Cadmium	0.32	J	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:04	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:04	1
Chromium	1.0	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:04	1
Iron	17	J B	100	13	ug/L		03/30/15 09:50	03/31/15 16:04	1
Manganese	260		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:04	1
Nickel	1.7	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:04	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:04	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:04	1
Vanadium	3.8	J B ^	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:04	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 16:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:12	1
Barium	160	B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:12	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:12	1
Cadmium	0.18	J	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:12	1
Cobalt	1.1	J	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:12	1
Chromium	1.5	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:12	1
Iron	9200	B	100	13	ug/L		03/30/15 09:50	03/31/15 16:12	1
Manganese	370		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:12	1
Nickel	1.7	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:12	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:12	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:12	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:12	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 16:12	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3	J	5.0	2.9	ug/L		03/30/15 09:50	03/31/15 15:59	1
Barium	24	J B	100	1.0	ug/L		03/30/15 09:50	03/31/15 15:59	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 15:59	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 15:59	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 15:59	1
Chromium	0.60	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 15:59	1
Iron	100	U	100	13	ug/L		03/30/15 09:50	03/31/15 15:59	1
Manganese	49		15	0.46	ug/L		03/30/15 09:50	03/31/15 15:59	1
Nickel	0.98	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 15:59	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 15:59	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 15:59	1
Vanadium	2.5	J B ^	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 15:59	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 15:59	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15007

Lab Sample ID: 240-48694-2

Date Collected: 03/26/15 11:21

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:08	1
Barium	180	B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:08	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:08	1
Cadmium	0.24	J	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:08	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:08	1
Chromium	1.5	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:08	1
Iron	100	U	100	13	ug/L		03/30/15 09:50	03/31/15 16:08	1
Manganese	270		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:08	1
Nickel	2.5	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:08	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:08	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:08	1
Vanadium	3.7	J B ^	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:08	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 16:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15008

Lab Sample ID: 240-48694-3

Date Collected: 03/26/15 12:11

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		5.0	2.9	ug/L		03/30/15 09:49	03/31/15 15:24	1
Barium	480	B	100	1.0	ug/L		03/30/15 09:49	03/31/15 15:24	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:49	03/31/15 15:24	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:49	03/31/15 15:24	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:49	03/31/15 15:24	1
Chromium	0.89	J B	5.0	0.55	ug/L		03/30/15 09:49	03/31/15 15:24	1
Iron	230	B	100	13	ug/L		03/30/15 09:49	03/31/15 15:24	1
Manganese	94		15	0.46	ug/L		03/30/15 09:49	03/31/15 15:24	1
Nickel	3.0	J	20	0.76	ug/L		03/30/15 09:49	03/31/15 15:24	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:49	03/31/15 15:24	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:49	03/31/15 15:24	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 09:49	03/31/15 15:24	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:49	03/31/15 15:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:16	1
Barium	160	B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:16	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:16	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:16	1
Cobalt	0.89	J	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:16	1
Chromium	1.6	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:16	1
Iron	9200	B	100	13	ug/L		03/30/15 09:50	03/31/15 16:16	1
Manganese	390		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:16	1
Nickel	2.0	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:16	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:16	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:16	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:16	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:50	03/31/15 16:16	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15011

Lab Sample ID: 240-48694-6

Date Collected: 03/26/15 14:51

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:20	1
Barium	34	J B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:20	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:20	1
Cadmium	0.45	J	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:20	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:20	1
Chromium	1.9	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:20	1
Iron	100	U	100	13	ug/L		03/30/15 09:50	03/31/15 16:20	1
Manganese	23		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:20	1
Nickel	3.7	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:20	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:20	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:20	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:20	1
Zinc	32		20	9.6	ug/L		03/30/15 09:50	03/31/15 16:20	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15012

Lab Sample ID: 240-48694-7

Date Collected: 03/26/15 16:21

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.0	2.9	ug/L		03/30/15 09:50	03/31/15 16:24	1
Barium	120	B	100	1.0	ug/L		03/30/15 09:50	03/31/15 16:24	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:50	03/31/15 16:24	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:50	03/31/15 16:24	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:50	03/31/15 16:24	1
Chromium	1.5	J B	5.0	0.55	ug/L		03/30/15 09:50	03/31/15 16:24	1
Iron	100	U	100	13	ug/L		03/30/15 09:50	03/31/15 16:24	1
Manganese	140		15	0.46	ug/L		03/30/15 09:50	03/31/15 16:24	1
Nickel	13	J	20	0.76	ug/L		03/30/15 09:50	03/31/15 16:24	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:50	03/31/15 16:24	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:50	03/31/15 16:24	1
Vanadium	2.4	J B ^	4.0	2.4	ug/L		03/30/15 09:50	03/31/15 16:24	1
Zinc	16	J	20	9.6	ug/L		03/30/15 09:50	03/31/15 16:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	38	J	50	9.0	ug/L		03/30/15 09:50	03/31/15 11:33	1
Antimony	0.21	J	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 11:33	1
Copper	2.3	B	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 11:33	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 11:33	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 11:33	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:50	03/31/15 11:41	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 11:41	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 11:41	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 11:41	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 11:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11	J	50	9.0	ug/L		03/30/15 09:50	03/31/15 11:56	1
Antimony	0.24	J	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 11:56	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 11:56	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 11:56	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 11:56	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12	J	50	9.0	ug/L		03/30/15 09:50	03/31/15 11:37	1
Antimony	0.17	J	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 11:37	1
Copper	1.2	J B	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 11:37	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 11:37	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 11:37	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:50	03/31/15 11:45	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 11:45	1
Copper	0.80	J B	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 11:45	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 11:45	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 11:45	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15008

Date Collected: 03/26/15 12:11

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:49	03/31/15 10:56	1
Antimony	0.71	J	2.0	0.16	ug/L		03/30/15 09:49	03/31/15 10:56	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 09:49	03/31/15 10:56	1
Thallium	0.26	J	1.0	0.074	ug/L		03/30/15 09:49	03/31/15 10:56	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:49	03/31/15 10:56	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15009

Date Collected: 03/26/15 13:26

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:50	03/31/15 12:00	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 12:00	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 12:00	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 12:00	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 12:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15011

Date Collected: 03/26/15 14:51

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:50	03/31/15 12:04	1
Antimony	0.33	J	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 12:04	1
Copper	6.9	B	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 12:04	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 12:04	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 12:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Client Sample ID: GW-12636-032615-SSH-15012

Date Collected: 03/26/15 16:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:50	03/31/15 12:08	1
Antimony	0.24	J	2.0	0.16	ug/L		03/30/15 09:50	03/31/15 12:08	1
Copper	1.2	J B	2.0	0.75	ug/L		03/30/15 09:50	03/31/15 12:08	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:50	03/31/15 12:08	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:50	03/31/15 12:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 11:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:32	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 11:31	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:34	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15008

Date Collected: 03/26/15 12:11

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:07	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:36	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15011

Date Collected: 03/26/15 14:51

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032615-SSH-15012

Date Collected: 03/26/15 16:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 11:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15006

Date Collected: 03/26/15 10:01

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	-		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15007

Date Collected: 03/26/15 11:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15008

Date Collected: 03/26/15 12:11

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15009

Date Collected: 03/26/15 13:26

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15011

Date Collected: 03/26/15 14:51

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

General Chemistry

Client Sample ID: GW-12636-032615-SSH-15012

Date Collected: 03/26/15 16:21

Date Received: 03/27/15 09:30

Lab Sample ID: 240-48694-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:53	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

GC/MS VOA

Analysis Batch: 174828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Total/NA	Water	8260B	
240-48694-2	GW-12636-032615-SSH-15007	Total/NA	Water	8260B	
240-48694-3	GW-12636-032615-SSH-15008	Total/NA	Water	8260B	
240-48694-4	GW-12636-032615-SSH-15009	Total/NA	Water	8260B	
240-48694-5	TB-12636-032615-SSH-15010	Total/NA	Water	8260B	
240-48694-6	GW-12636-032615-SSH-15011	Total/NA	Water	8260B	
240-48694-7	GW-12636-032615-SSH-15012	Total/NA	Water	8260B	
LCS 240-174828/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-174828/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 174257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Dissolved	Water	3005A	
240-48694-1	GW-12636-032615-SSH-15006	Total Recoverable	Water	3005A	
240-48694-2	GW-12636-032615-SSH-15007	Dissolved	Water	3005A	
240-48694-2	GW-12636-032615-SSH-15007	Total Recoverable	Water	3005A	
240-48694-3	GW-12636-032615-SSH-15008	Dissolved	Water	3005A	
240-48694-3 MS	GW-12636-032615-SSH-15008	Dissolved	Water	3005A	
240-48694-3 MSD	GW-12636-032615-SSH-15008	Dissolved	Water	3005A	
240-48694-4	GW-12636-032615-SSH-15009	Dissolved	Water	3005A	
240-48694-4	GW-12636-032615-SSH-15009	Total Recoverable	Water	3005A	
240-48694-6	GW-12636-032615-SSH-15011	Dissolved	Water	3005A	
240-48694-7	GW-12636-032615-SSH-15012	Dissolved	Water	3005A	
LCS 240-174257/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-174257/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-174257/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 174266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Dissolved	Water	7470A	
240-48694-1	GW-12636-032615-SSH-15006	Total/NA	Water	7470A	
240-48694-2	GW-12636-032615-SSH-15007	Dissolved	Water	7470A	
240-48694-2	GW-12636-032615-SSH-15007	Total/NA	Water	7470A	
240-48694-3	GW-12636-032615-SSH-15008	Dissolved	Water	7470A	
240-48694-4	GW-12636-032615-SSH-15009	Dissolved	Water	7470A	
240-48694-4	GW-12636-032615-SSH-15009	Total/NA	Water	7470A	
240-48694-6	GW-12636-032615-SSH-15011	Dissolved	Water	7470A	
240-48694-7	GW-12636-032615-SSH-15012	Dissolved	Water	7470A	
LCS 240-174266/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-174266/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 174569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Dissolved	Water	6010B	174257
240-48694-1	GW-12636-032615-SSH-15006	Total Recoverable	Water	6010B	174257
240-48694-2	GW-12636-032615-SSH-15007	Dissolved	Water	6010B	174257
240-48694-2	GW-12636-032615-SSH-15007	Total Recoverable	Water	6010B	174257
240-48694-3	GW-12636-032615-SSH-15008	Dissolved	Water	6010B	174257

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Metals (Continued)

Analysis Batch: 174569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-3 MS	GW-12636-032615-SSH-15008	Dissolved	Water	6010B	174257
240-48694-3 MSD	GW-12636-032615-SSH-15008	Dissolved	Water	6010B	174257
240-48694-4	GW-12636-032615-SSH-15009	Dissolved	Water	6010B	174257
240-48694-4	GW-12636-032615-SSH-15009	Total Recoverable	Water	6010B	174257
240-48694-6	GW-12636-032615-SSH-15011	Dissolved	Water	6010B	174257
240-48694-7	GW-12636-032615-SSH-15012	Dissolved	Water	6010B	174257
LCS 240-174257/2-A	Lab Control Sample	Total Recoverable	Water	6010B	174257
MB 240-174257/1-A	Method Blank	Total Recoverable	Water	6010B	174257

Analysis Batch: 174588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Dissolved	Water	7470A	174266
240-48694-1	GW-12636-032615-SSH-15006	Total/NA	Water	7470A	174266
240-48694-2	GW-12636-032615-SSH-15007	Dissolved	Water	7470A	174266
240-48694-2	GW-12636-032615-SSH-15007	Total/NA	Water	7470A	174266
240-48694-3	GW-12636-032615-SSH-15008	Dissolved	Water	7470A	174266
240-48694-4	GW-12636-032615-SSH-15009	Dissolved	Water	7470A	174266
240-48694-4	GW-12636-032615-SSH-15009	Total/NA	Water	7470A	174266
240-48694-6	GW-12636-032615-SSH-15011	Dissolved	Water	7470A	174266
240-48694-7	GW-12636-032615-SSH-15012	Dissolved	Water	7470A	174266
LCS 240-174266/2-A	Lab Control Sample	Total/NA	Water	7470A	174266
MB 240-174266/1-A	Method Blank	Total/NA	Water	7470A	174266

Analysis Batch: 174605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Dissolved	Water	6020	174257
240-48694-1	GW-12636-032615-SSH-15006	Total Recoverable	Water	6020	174257
240-48694-2	GW-12636-032615-SSH-15007	Dissolved	Water	6020	174257
240-48694-2	GW-12636-032615-SSH-15007	Total Recoverable	Water	6020	174257
240-48694-3	GW-12636-032615-SSH-15008	Dissolved	Water	6020	174257
240-48694-4	GW-12636-032615-SSH-15009	Dissolved	Water	6020	174257
240-48694-4	GW-12636-032615-SSH-15009	Total Recoverable	Water	6020	174257
240-48694-6	GW-12636-032615-SSH-15011	Dissolved	Water	6020	174257
240-48694-7	GW-12636-032615-SSH-15012	Dissolved	Water	6020	174257
LCS 240-174257/3-A	Lab Control Sample	Total Recoverable	Water	6020	174257
MB 240-174257/1-A	Method Blank	Total Recoverable	Water	6020	174257

General Chemistry

Analysis Batch: 174133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48694-1	GW-12636-032615-SSH-15006	Total/NA	Water	9012A	
240-48694-2	GW-12636-032615-SSH-15007	Total/NA	Water	9012A	
240-48694-3	GW-12636-032615-SSH-15008	Total/NA	Water	9012A	
240-48694-4	GW-12636-032615-SSH-15009	Total/NA	Water	9012A	
240-48694-6	GW-12636-032615-SSH-15011	Total/NA	Water	9012A	
240-48694-7	GW-12636-032615-SSH-15012	Total/NA	Water	9012A	

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Lab Sample ID: MB 240-174828/6

Matrix: Water

Analysis Batch: 174828

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			04/02/15 12:02	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 12:02	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 12:02	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 12:02	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 12:02	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 12:02	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 12:02	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 12:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 12:02	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 12:02	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 12:02	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 12:02	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 12:02	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 12:02	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 12:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 12:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 12:02	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 12:02	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 12:02	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 12:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 12:02	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 12:02	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 12:02	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 12:02	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 12:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 12:02	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 12:02	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 12:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 12:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 12:02	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 12:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 12:02	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 12:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 12:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 12:02	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 12:02	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 12:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 12:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 12:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 12:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 12:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 12:02	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 12:02	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Lab Sample ID: MB 240-174828/6

Matrix: Water

Analysis Batch: 174828

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 12:02	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 12:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129					04/02/15 12:02	1
4-Bromofluorobenzene (Surr)	77		66 - 120					04/02/15 12:02	1
Toluene-d8 (Surr)	92		74 - 120					04/02/15 12:02	1
Dibromofluoromethane (Surr)	88		75 - 121					04/02/15 12:02	1

Lab Sample ID: LCS 240-174828/4

Matrix: Water

Analysis Batch: 174828

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	22.2		ug/L		111	43 - 136
Benzene	10.0	9.40		ug/L		94	80 - 120
Bromodichloromethane	10.0	9.89		ug/L		99	72 - 121
Bromoform	10.0	9.74		ug/L		97	40 - 131
Bromomethane	10.0	9.38		ug/L		94	11 - 185
2-Butanone (MEK)	20.0	22.5		ug/L		113	60 - 126
Carbon disulfide	10.0	10.2		ug/L		102	62 - 142
Carbon tetrachloride	10.0	10.5		ug/L		105	66 - 128
Chlorobenzene	10.0	9.88		ug/L		99	80 - 120
Chloroethane	10.0	10.1		ug/L		101	25 - 153
Chloroform	10.0	9.68		ug/L		97	79 - 120
Chloromethane	10.0	8.59		ug/L		86	44 - 126
1,1-Dichloroethane	10.0	9.72		ug/L		97	80 - 120
1,2-Dichloroethane	10.0	10.2		ug/L		102	71 - 127
1,1-Dichloroethene	10.0	9.74		ug/L		97	78 - 131
1,2-Dichloropropane	10.0	9.71		ug/L		97	80 - 120
1,2,4-Trimethylbenzene	10.0	10.6		ug/L		106	76 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 120
trans-1,3-Dichloropropene	10.0	11.4		ug/L		114	58 - 120
Ethylbenzene	10.0	9.98		ug/L		100	80 - 120
2-Hexanone	20.0	22.2		ug/L		111	55 - 133
Methylene Chloride	10.0	10.2		ug/L		102	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	22.1		ug/L		111	63 - 128
Styrene	10.0	9.84		ug/L		98	79 - 120
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	68 - 120
Tetrachloroethene	10.0	10.3		ug/L		103	79 - 120
Toluene	10.0	10.7		ug/L		107	80 - 120
Trichloroethene	10.0	9.87		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	10.0	10.7		ug/L		107	72 - 120
Vinyl chloride	10.0	9.32		ug/L		93	53 - 127
Xylenes, Total	20.0	20.6		ug/L		103	80 - 120
1,1,1-Trichloroethane	10.0	9.95		ug/L		99	74 - 120
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 120
Cyclohexane	10.0	10.1		ug/L		101	54 - 121

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Lab Sample ID: LCS 240-174828/4

Matrix: Water

Analysis Batch: 174828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	11.2		ug/L		112	42 - 136
1,2-Dibromoethane	10.0	10.2		ug/L		102	79 - 120
Dichlorodifluoromethane	10.0	9.89		ug/L		99	19 - 129
cis-1,2-Dichloroethene	10.0	8.87		ug/L		89	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	10.1		ug/L		101	75 - 120
Methyl acetate	50.0	54.0		ug/L		108	58 - 131
Methyl tert-butyl ether	10.0	10.2		ug/L		102	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.7		ug/L		107	74 - 151
1,2,4-Trichlorobenzene	10.0	9.75		ug/L		97	48 - 135
1,2-Dichlorobenzene	10.0	9.90		ug/L		99	80 - 120
1,3-Dichlorobenzene	10.0	9.67		ug/L		97	80 - 120
1,4-Dichlorobenzene	10.0	9.78		ug/L		98	80 - 120
Trichlorofluoromethane	10.0	10.2		ug/L		102	49 - 157
Dibromochloromethane	10.0	10.5		ug/L		105	64 - 120
Methylcyclohexane	10.0	10.2		ug/L		102	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	93		66 - 120
Toluene-d8 (Surr)	97		74 - 120
Dibromofluoromethane (Surr)	84		75 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-174257/1-A

Matrix: Water

Analysis Batch: 174569

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 09:49	03/31/15 15:16	1
Barium	1.03	J	100	1.0	ug/L		03/30/15 09:49	03/31/15 15:16	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 09:49	03/31/15 15:16	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 09:49	03/31/15 15:16	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 09:49	03/31/15 15:16	1
Chromium	0.663	J	5.0	0.55	ug/L		03/30/15 09:49	03/31/15 15:16	1
Iron	14.7	J	100	13	ug/L		03/30/15 09:49	03/31/15 15:16	1
Manganese	15	U	15	0.46	ug/L		03/30/15 09:49	03/31/15 15:16	1
Nickel	20	U	20	0.76	ug/L		03/30/15 09:49	03/31/15 15:16	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 09:49	03/31/15 15:16	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 09:49	03/31/15 15:16	1
Vanadium	4.48		4.0	2.4	ug/L		03/30/15 09:49	03/31/15 15:16	1
Zinc	20	U	20	9.6	ug/L		03/30/15 09:49	03/31/15 15:16	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Lab Sample ID: LCS 240-174257/2-A

Matrix: Water

Analysis Batch: 174569

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	2040		ug/L		102	80 - 120
Barium	2000	1950		ug/L		97	80 - 120
Beryllium	50.0	49.2		ug/L		98	80 - 120
Cadmium	50.0	51.7		ug/L		103	80 - 120
Cobalt	500	489		ug/L		98	80 - 120
Chromium	200	197		ug/L		99	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Manganese	500	495		ug/L		99	80 - 120
Nickel	500	493		ug/L		99	80 - 120
Lead	500	486		ug/L		97	80 - 120
Selenium	2000	2150		ug/L		107	80 - 120
Vanadium	500	500		ug/L		100	80 - 120
Zinc	500	494		ug/L		99	80 - 120

Lab Sample ID: 240-48694-3 MS

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032615-SSH-15008

Prep Type: Dissolved

Prep Batch: 174257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	16		2000	2090		ug/L		104	75 - 125
Barium	480	B	2000	2480		ug/L		100	75 - 125
Beryllium	1.0	U	50.0	50.1		ug/L		100	75 - 125
Cadmium	1.0	U	50.0	52.6		ug/L		105	75 - 125
Cobalt	7.0	U	500	496		ug/L		99	75 - 125
Chromium	0.89	J B	200	201		ug/L		100	75 - 125
Iron	230	B	1000	1260		ug/L		103	75 - 125
Manganese	94		500	595		ug/L		100	75 - 125
Nickel	3.0	J	500	502		ug/L		100	75 - 125
Lead	3.0	U	500	493		ug/L		99	75 - 125
Selenium	5.0	U	2000	2150		ug/L		108	75 - 125
Vanadium	4.0	U	500	508		ug/L		102	75 - 125
Zinc	20	U	500	498		ug/L		100	75 - 125

Lab Sample ID: 240-48694-3 MSD

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032615-SSH-15008

Prep Type: Dissolved

Prep Batch: 174257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	16		2000	2100		ug/L		104	75 - 125	0	20
Barium	480	B	2000	2450		ug/L		98	75 - 125	1	20
Beryllium	1.0	U	50.0	49.4		ug/L		99	75 - 125	1	20
Cadmium	1.0	U	50.0	52.7		ug/L		105	75 - 125	0	20
Cobalt	7.0	U	500	498		ug/L		100	75 - 125	0	20
Chromium	0.89	J B	200	201		ug/L		100	75 - 125	0	20
Iron	230	B	1000	1250		ug/L		102	75 - 125	1	20
Manganese	94		500	597		ug/L		101	75 - 125	0	20
Nickel	3.0	J	500	501		ug/L		100	75 - 125	0	20
Lead	3.0	U	500	494		ug/L		99	75 - 125	0	20

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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

Lab Sample ID: 240-48694-3 MSD

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032615-SSH-15008

Prep Type: Dissolved

Prep Batch: 174257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	5.0	U	2000	2170		ug/L		109	75 - 125	1	20
Vanadium	4.0	U	500	508		ug/L		102	75 - 125	0	20
Zinc	20	U	500	499		ug/L		100	75 - 125	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-174257/1-A

Matrix: Water

Analysis Batch: 174605

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 09:49	03/31/15 10:41	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 09:49	03/31/15 10:41	1
Copper	0.851	J	2.0	0.75	ug/L		03/30/15 09:49	03/31/15 10:41	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 09:49	03/31/15 10:41	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 09:49	03/31/15 10:41	1

Lab Sample ID: LCS 240-174257/3-A

Matrix: Water

Analysis Batch: 174605

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9970		ug/L		100	80 - 120
Antimony	100	108		ug/L		108	80 - 120
Copper	1000	1080		ug/L		108	80 - 120
Thallium	250	255		ug/L		102	80 - 120
Silver	100	104		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-174266/1-A

Matrix: Water

Analysis Batch: 174588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 11:02	1

Lab Sample ID: LCS 240-174266/2-A

Matrix: Water

Analysis Batch: 174588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.36		ug/L		107	80 - 120

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

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 (63-129)	BFB (66-120)	TOL (74-120)	DBFM (75-121)
240-48694-1	GW-12636-032615-SSH-15006	103	78	89	89
240-48694-2	GW-12636-032615-SSH-15007	106	80	90	91
240-48694-3	GW-12636-032615-SSH-15008	105	78	89	90
240-48694-4	GW-12636-032615-SSH-15009	105	74	89	92
240-48694-5	TB-12636-032615-SSH-15010	105	77	89	90
240-48694-6	GW-12636-032615-SSH-15011	106	76	88	93
240-48694-7	GW-12636-032615-SSH-15012	105	76	89	94
LCS 240-174828/4	Lab Control Sample	93	93	97	84
MB 240-174828/6	Method Blank	101	77	92	88

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15006

Lab Sample ID: 240-48694-1

Date Collected: 03/26/15 10:01

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 18:42	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 15:59	KLC	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 15:55	KLC	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 11:37	AS1	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 11:33	AS1	TAL CAN
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:31	BW	TAL CAN
Total/NA	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 11:29	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032615-SSH-15007

Lab Sample ID: 240-48694-2

Date Collected: 03/26/15 11:21

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 19:05	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 16:08	KLC	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 16:04	KLC	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 11:45	AS1	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 11:41	AS1	TAL CAN
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:34	BW	TAL CAN
Total/NA	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 11:32	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032615-SSH-15008

Lab Sample ID: 240-48694-3

Date Collected: 03/26/15 12:11

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 19:27	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:49	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 15:24	KLC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15008

Lab Sample ID: 240-48694-3

Date Collected: 03/26/15 12:11

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			174257	03/30/15 09:49	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 10:56	AS1	TAL CAN
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:07	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032615-SSH-15009

Lab Sample ID: 240-48694-4

Date Collected: 03/26/15 13:26

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 19:49	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 16:16	KLC	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 16:12	KLC	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 12:00	AS1	TAL CAN
Total Recoverable	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 11:56	AS1	TAL CAN
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:36	BW	TAL CAN
Total/NA	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 11:35	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: TB-12636-032615-SSH-15010

Lab Sample ID: 240-48694-5

Date Collected: 03/26/15 14:00

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 20:12	RJQ	TAL CAN

Client Sample ID: GW-12636-032615-SSH-15011

Lab Sample ID: 240-48694-6

Date Collected: 03/26/15 14:51

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 20:35	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 16:20	KLC	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 12:04	AS1	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Client Sample ID: GW-12636-032615-SSH-15011

Lab Sample ID: 240-48694-6

Date Collected: 03/26/15 14:51

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:41	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032615-SSH-15012

Lab Sample ID: 240-48694-7

Date Collected: 03/26/15 16:21

Matrix: Water

Date Received: 03/27/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174828	04/02/15 20:57	RJQ	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 16:24	KLC	TAL CAN
Dissolved	Prep	3005A			174257	03/30/15 09:50	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 12:08	AS1	TAL CAN
Dissolved	Prep	7470A			174266	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:43	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:53	SEM	TAL CAN

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48694-1

Laboratory: TestAmerica Canton

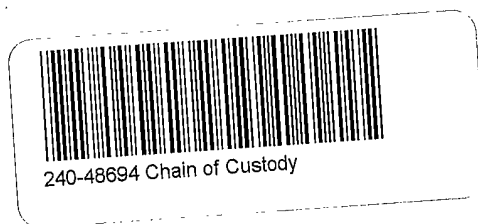
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS





**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

COC NO. **PL- 08097**
PAGE **1** OF **1**
(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 12636-TO9-001415		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 12636-TO9-0008	
Project Name: Roller Coldwater Rd / Purgine		Lab Contact: A. Heckler		Lab Quote No: 24005826		Cooler No:	
Project Location: Genesee Twp. MI		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: FedEx	
Chemistry Contact: R. Fleisher		SAMPLE TYPE		Unpreserved		Airbill No: 87512123070	
Sampler(s): S. Hoyer		Matrix Code		Grab (G) or Comp (C)		Date Shipped: 3/26/15	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yy)		TIME (hh:mm)		COMMENTS/ SPECIAL INSTRUCTIONS:	
1 GW-12636-032615-SSA-15006		3/26/15		1001		no t. metal	
2 1-15007				1121			
3 1-15008				1211			
4 GW-12636-032615-SSA-15009				1326			
5 TB-12636-032615-SSA-15010				1700			
6 GW-12636-032615-SSA-15011				1451			
7 1-15012				1621			
8							
9							
10							
11							
12							
13							
14							
15							
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:		RELINQUISHED BY Adh Mann		DATE 3/26/15		COMPANY CRA	
1. Adh Mann		DATE 3/26/15		TIME 1730		RECEIVED BY [Signature]	
2.						COMPANY TA	
3.						DATE 327.15	
TIME 430							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

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-12636-032615-SSH-15006	240-48694-D-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15006	240-48694-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032615-SSH-15006	240-48694-F-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032615-SSH-15007	240-48694-D-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15007	240-48694-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032615-SSH-15007	240-48694-F-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032615-SSH-15008	240-48694-D-3	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15008	240-48694-E-3	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032615-SSH-15009	240-48694-D-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15009	240-48694-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032615-SSH-15009	240-48694-F-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032615-SSH-15011	240-48694-D-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15011	240-48694-E-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032615-SSH-15012	240-48694-D-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032615-SSH-15012	240-48694-E-7	Plastic 500ml - w/ Nitric - Dis.	<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: 240-48672-1

Client Project/Site: 12636-T09-008, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

4/6/2015 3:46:28 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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www.testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Job ID: 240-48672-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-008, RACER Peregrine

Report Number: 240-48672-1

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 03/26/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.3 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4), GW-12636-032515-SSH-15005 (240-48672-5) and TB-12636-032515-SSH-15006 (240-48672-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/02/2015.

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

DISSOLVED METALS (ICP)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/27/2015 and analyzed on 03/30/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Job ID: 240-48672-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/27/2015 and analyzed on 03/30/2015.

Vanadium was detected in method blank MB 240-174047/1-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.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL

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

DISSOLVED METALS (ICPMS)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/27/2015 and analyzed on 03/30/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/27/2015 and analyzed on 03/30/2015.

Antimony was detected in method blank MB 240-174047/1-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.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL

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

DISSOLVED MERCURY (CVAA)

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/31/2015 and analyzed on 04/01/2015.

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

TOTAL MERCURY

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for total

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Job ID: 240-48672-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/31/2015 and analyzed on 04/01/2015.

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

AMENABLE CYANIDE

Samples GW-12636-032515-SSH-15001 (240-48672-1), GW-12636-032515-SSH-15002 (240-48672-2), GW-12636-032515-SSH-15003 (240-48672-3), GW-12636-032515-SSH-15004 (240-48672-4) and GW-12636-032515-SSH-15005 (240-48672-5) were analyzed for amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were analyzed on 03/27/2015.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48672-1	GW-12636-032515-SSH-15001	Water	03/25/15 12:41	03/26/15 10:30
240-48672-2	GW-12636-032515-SSH-15002	Water	03/25/15 13:46	03/26/15 10:30
240-48672-3	GW-12636-032515-SSH-15003	Water	03/25/15 14:56	03/26/15 10:30
240-48672-4	GW-12636-032515-SSH-15004	Water	03/25/15 16:01	03/26/15 10:30
240-48672-5	GW-12636-032515-SSH-15005	Water	03/25/15 16:02	03/26/15 10:30
240-48672-6	TB-12636-032515-SSH-15006	Water	03/25/15 15:00	03/26/15 10:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15001

Lab Sample ID: 240-48672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3	J	5.0	2.9	ug/L	1		6010B	Total
									Recoverable
Barium	44	J	100	1.0	ug/L	1		6010B	Total
									Recoverable
Chromium	1.2	J	5.0	0.55	ug/L	1		6010B	Total
									Recoverable
Iron	67	J	100	13	ug/L	1		6010B	Total
									Recoverable
Manganese	15		15	0.46	ug/L	1		6010B	Total
									Recoverable
Zinc	13	J	20	9.6	ug/L	1		6010B	Total
									Recoverable
Arsenic	3.9	J	5.0	2.9	ug/L	1		6010B	Dissolved
Barium	42	J	100	1.0	ug/L	1		6010B	Dissolved
Cobalt	0.98	J	7.0	0.56	ug/L	1		6010B	Dissolved
Chromium	1.1	J	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	8.5	J	15	0.46	ug/L	1		6010B	Dissolved
Nickel	2.3	J	20	0.76	ug/L	1		6010B	Dissolved
Lead	2.3	J	3.0	1.9	ug/L	1		6010B	Dissolved
Aluminum	59		50	9.0	ug/L	1		6020	Total
									Recoverable
Antimony	0.76	J B	2.0	0.16	ug/L	1		6020	Total
									Recoverable
Copper	1.9	J	2.0	0.75	ug/L	1		6020	Total
									Recoverable
Thallium	0.18	J	1.0	0.074	ug/L	1		6020	Total
									Recoverable
Antimony	0.73	J B	2.0	0.16	ug/L	1		6020	Dissolved
Copper	1.7	J	2.0	0.75	ug/L	1		6020	Dissolved
Thallium	0.24	J	1.0	0.074	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032515-SSH-15002

Lab Sample ID: 240-48672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2	J	5.0	2.9	ug/L	1		6010B	Total
									Recoverable
Barium	130		100	1.0	ug/L	1		6010B	Total
									Recoverable
Beryllium	0.14	J	1.0	0.13	ug/L	1		6010B	Total
									Recoverable
Chromium	2.1	J	5.0	0.55	ug/L	1		6010B	Total
									Recoverable
Iron	18	J	100	13	ug/L	1		6010B	Total
									Recoverable
Manganese	4.0	J	15	0.46	ug/L	1		6010B	Total
									Recoverable
Nickel	0.93	J	20	0.76	ug/L	1		6010B	Total
									Recoverable
Lead	2.5	J	3.0	1.9	ug/L	1		6010B	Total
									Recoverable
Arsenic	3.5	J	5.0	2.9	ug/L	1		6010B	Dissolved
Barium	120		100	1.0	ug/L	1		6010B	Dissolved
Chromium	1.6	J	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	1.1	J	15	0.46	ug/L	1		6010B	Dissolved
Nickel	1.7	J	20	0.76	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15002 (Continued)

Lab Sample ID: 240-48672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	3.5	J B ^	4.0	2.4	ug/L	1		6010B	Dissolved
Aluminum	11	J	50	9.0	ug/L	1		6020	Total
Antimony	0.28	J B	2.0	0.16	ug/L	1		6020	Recoverable Total
Antimony	0.26	J B	2.0	0.16	ug/L	1		6020	Recoverable Dissolved
Copper	0.82	J	2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032515-SSH-15003

Lab Sample ID: 240-48672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	77	J	100	1.0	ug/L	1		6010B	Total
Cadmium	0.35	J	1.0	0.14	ug/L	1		6010B	Recoverable Total
Chromium	1.6	J	5.0	0.55	ug/L	1		6010B	Recoverable Total
Iron	37	J	100	13	ug/L	1		6010B	Recoverable Total
Manganese	2.6	J	15	0.46	ug/L	1		6010B	Recoverable Total
Vanadium	2.9	J B ^	4.0	2.4	ug/L	1		6010B	Recoverable Total
Barium	77	J	100	1.0	ug/L	1		6010B	Dissolved
Cadmium	0.40	J	1.0	0.14	ug/L	1		6010B	Dissolved
Chromium	1.4	J	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	0.99	J	15	0.46	ug/L	1		6010B	Dissolved
Nickel	2.5	J	20	0.76	ug/L	1		6010B	Dissolved
Aluminum	23	J	50	9.0	ug/L	1		6020	Total
Antimony	0.24	J B	2.0	0.16	ug/L	1		6020	Recoverable Total

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	64		5.0	2.9	ug/L	1		6010B	Total
Barium	150		100	1.0	ug/L	1		6010B	Recoverable Total
Cadmium	0.27	J	1.0	0.14	ug/L	1		6010B	Recoverable Total
Chromium	0.71	J	5.0	0.55	ug/L	1		6010B	Recoverable Total
Iron	2100		100	13	ug/L	1		6010B	Recoverable Total
Manganese	29		15	0.46	ug/L	1		6010B	Recoverable Total
Lead	2.3	J	3.0	1.9	ug/L	1		6010B	Recoverable Total
Arsenic	43		5.0	2.9	ug/L	1		6010B	Dissolved
Barium	140		100	1.0	ug/L	1		6010B	Dissolved
Cadmium	0.44	J	1.0	0.14	ug/L	1		6010B	Dissolved
Chromium	0.81	J	5.0	0.55	ug/L	1		6010B	Dissolved
Iron	1500		100	13	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15004 (Continued)

Lab Sample ID: 240-48672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	27		15	0.46	ug/L	1		6010B	Dissolved
Aluminum	11	J	50	9.0	ug/L	1		6020	Total Recoverable
Antimony	0.22	J B	2.0	0.16	ug/L	1		6020	Total Recoverable

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	62		5.0	2.9	ug/L	1		6010B	Total Recoverable
Barium	140		100	1.0	ug/L	1		6010B	Total Recoverable
Cadmium	0.32	J	1.0	0.14	ug/L	1		6010B	Total Recoverable
Chromium	1.4	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	2100		100	13	ug/L	1		6010B	Total Recoverable
Manganese	28		15	0.46	ug/L	1		6010B	Total Recoverable
Vanadium	4.0	B ^	4.0	2.4	ug/L	1		6010B	Total Recoverable
Arsenic	44		5.0	2.9	ug/L	1		6010B	Dissolved
Barium	140		100	1.0	ug/L	1		6010B	Dissolved
Cadmium	0.36	J	1.0	0.14	ug/L	1		6010B	Dissolved
Chromium	1.2	J	5.0	0.55	ug/L	1		6010B	Dissolved
Iron	1500		100	13	ug/L	1		6010B	Dissolved
Manganese	28		15	0.46	ug/L	1		6010B	Dissolved
Nickel	2.4	J	20	0.76	ug/L	1		6010B	Dissolved
Lead	1.9	J	3.0	1.9	ug/L	1		6010B	Dissolved
Vanadium	2.8	J B ^	4.0	2.4	ug/L	1		6010B	Dissolved
Aluminum	13	J	50	9.0	ug/L	1		6020	Total Recoverable
Antimony	0.22	J B	2.0	0.16	ug/L	1		6020	Total Recoverable

Client Sample ID: TB-12636-032515-SSH-15006

Lab Sample ID: 240-48672-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Amenable	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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 06:37	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 06:37	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 06:37	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 06:37	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 06:37	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 06:37	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 06:37	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 06:37	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 06:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 06:37	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 06:37	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 06:37	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 06:37	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 06:37	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 06:37	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 06:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 06:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 06:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 06:37	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 06:37	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 06:37	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 06:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 06:37	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 06:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 06:37	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 06:37	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 06:37	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 06:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 06:37	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 06:37	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 06:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 06:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 06:37	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 06:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 06:37	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 06:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 06:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 06:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 06:37	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 06:37	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 06:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 06:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 06:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 06:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 06:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 06:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 06:37	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 06:37	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 06:37	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15001

Lab Sample ID: 240-48672-1

Date Collected: 03/25/15 12:41

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 129					04/02/15 06:37	1
4-Bromofluorobenzene (Surr)	84		66 - 120					04/02/15 06:37	1
Toluene-d8 (Surr)	91		74 - 120					04/02/15 06:37	1
Dibromofluoromethane (Surr)	101		75 - 121					04/02/15 06:37	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 07:00	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:00	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 07:00	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 07:00	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:00	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 07:00	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 07:00	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 07:00	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:00	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 07:00	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:00	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 07:00	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 07:00	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 07:00	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 07:00	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 07:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 07:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 07:00	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:00	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 07:00	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 07:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 07:00	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 07:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 07:00	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 07:00	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 07:00	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 07:00	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 07:00	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 07:00	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 07:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 07:00	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 07:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 07:00	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 07:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 07:00	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:00	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 07:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 07:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 07:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 07:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 07:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 07:00	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 07:00	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 07:00	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15002

Lab Sample ID: 240-48672-2

Date Collected: 03/25/15 13:46

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 07:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 129					04/02/15 07:00	1
4-Bromofluorobenzene (Surr)	83		66 - 120					04/02/15 07:00	1
Toluene-d8 (Surr)	90		74 - 120					04/02/15 07:00	1
Dibromofluoromethane (Surr)	103		75 - 121					04/02/15 07:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 07:23	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:23	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 07:23	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 07:23	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:23	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 07:23	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 07:23	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 07:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:23	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:23	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 07:23	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:23	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 07:23	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 07:23	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 07:23	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 07:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 07:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 07:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 07:23	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:23	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 07:23	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 07:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 07:23	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 07:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 07:23	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 07:23	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 07:23	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 07:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 07:23	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 07:23	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 07:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 07:23	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 07:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 07:23	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 07:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 07:23	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:23	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 07:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 07:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 07:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 07:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 07:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 07:23	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 07:23	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 07:23	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15003

Lab Sample ID: 240-48672-3

Date Collected: 03/25/15 14:56

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/02/15 07:23	1
4-Bromofluorobenzene (Surr)	84		66 - 120					04/02/15 07:23	1
Toluene-d8 (Surr)	90		74 - 120					04/02/15 07:23	1
Dibromofluoromethane (Surr)	104		75 - 121					04/02/15 07:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Date Collected: 03/25/15 16:01

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 07:45	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:45	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 07:45	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 07:45	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:45	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 07:45	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 07:45	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 07:45	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:45	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 07:45	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:45	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 07:45	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 07:45	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 07:45	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 07:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 07:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 07:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 07:45	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:45	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 07:45	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 07:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 07:45	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 07:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 07:45	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 07:45	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 07:45	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 07:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 07:45	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 07:45	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 07:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 07:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 07:45	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 07:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 07:45	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 07:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 07:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 07:45	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 07:45	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 07:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 07:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 07:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 07:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 07:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 07:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 07:45	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 07:45	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 07:45	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Date Collected: 03/25/15 16:01

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 129					04/02/15 07:45	1
4-Bromofluorobenzene (Surr)	85		66 - 120					04/02/15 07:45	1
Toluene-d8 (Surr)	90		74 - 120					04/02/15 07:45	1
Dibromofluoromethane (Surr)	106		75 - 121					04/02/15 07:45	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Date Collected: 03/25/15 16:02

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 08:08	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 08:08	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 08:08	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 08:08	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:08	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 08:08	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 08:08	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 08:08	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:08	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 08:08	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:08	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 08:08	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 08:08	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 08:08	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 08:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 08:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 08:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 08:08	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:08	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 08:08	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 08:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 08:08	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 08:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 08:08	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 08:08	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 08:08	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 08:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 08:08	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 08:08	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 08:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 08:08	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 08:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 08:08	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 08:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 08:08	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 08:08	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 08:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 08:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 08:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 08:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 08:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 08:08	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 08:08	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 08:08	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Date Collected: 03/25/15 16:02

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 08:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 129					04/02/15 08:08	1
4-Bromofluorobenzene (Surr)	84		66 - 120					04/02/15 08:08	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 08:08	1
Dibromofluoromethane (Surr)	104		75 - 121					04/02/15 08:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: TB-12636-032515-SSH-15006

Lab Sample ID: 240-48672-6

Date Collected: 03/25/15 15:00

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 08:31	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 08:31	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 08:31	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 08:31	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:31	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 08:31	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 08:31	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 08:31	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:31	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 08:31	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:31	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 08:31	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 08:31	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 08:31	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 08:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 08:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 08:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 08:31	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:31	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 08:31	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 08:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 08:31	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 08:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 08:31	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 08:31	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 08:31	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 08:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 08:31	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 08:31	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 08:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 08:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 08:31	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 08:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 08:31	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 08:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 08:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 08:31	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 08:31	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 08:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 08:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 08:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 08:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 08:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 08:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 08:31	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 08:31	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 08:31	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: TB-12636-032515-SSH-15006

Lab Sample ID: 240-48672-6

Date Collected: 03/25/15 15:00

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 08:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 129					04/02/15 08:31	1
4-Bromofluorobenzene (Surr)	84		66 - 120					04/02/15 08:31	1
Toluene-d8 (Surr)	92		74 - 120					04/02/15 08:31	1
Dibromofluoromethane (Surr)	103		75 - 121					04/02/15 08:31	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3	J	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:07	1
Barium	44	J	100	1.0	ug/L		03/27/15 09:33	03/30/15 14:07	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:07	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:07	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:07	1
Chromium	1.2	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:07	1
Iron	67	J	100	13	ug/L		03/27/15 09:33	03/30/15 14:07	1
Manganese	15		15	0.46	ug/L		03/27/15 09:33	03/30/15 14:07	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:07	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:07	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:07	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:07	1
Zinc	13	J	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:07	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	J	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:39	1
Barium	130		100	1.0	ug/L		03/27/15 09:33	03/30/15 14:39	1
Beryllium	0.14	J	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:39	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:39	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:39	1
Chromium	2.1	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:39	1
Iron	18	J	100	13	ug/L		03/27/15 09:33	03/30/15 14:39	1
Manganese	4.0	J	15	0.46	ug/L		03/27/15 09:33	03/30/15 14:39	1
Nickel	0.93	J	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:39	1
Lead	2.5	J	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:39	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:39	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:39	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:39	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:48	1
Barium	77	J	100	1.0	ug/L		03/27/15 09:33	03/30/15 14:48	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:48	1
Cadmium	0.35	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:48	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:48	1
Chromium	1.6	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:48	1
Iron	37	J	100	13	ug/L		03/27/15 09:33	03/30/15 14:48	1
Manganese	2.6	J	15	0.46	ug/L		03/27/15 09:33	03/30/15 14:48	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:48	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:48	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:48	1
Vanadium	2.9	J B ^	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:48	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:48	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Date Collected: 03/25/15 16:01

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	64		5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:56	1
Barium	150		100	1.0	ug/L		03/27/15 09:33	03/30/15 14:56	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:56	1
Cadmium	0.27	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:56	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:56	1
Chromium	0.71	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:56	1
Iron	2100		100	13	ug/L		03/27/15 09:33	03/30/15 14:56	1
Manganese	29		15	0.46	ug/L		03/27/15 09:33	03/30/15 14:56	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:56	1
Lead	2.3	J	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:56	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:56	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:56	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:56	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	62		5.0	2.9	ug/L		03/27/15 09:33	03/30/15 15:04	1
Barium	140		100	1.0	ug/L		03/27/15 09:33	03/30/15 15:04	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 15:04	1
Cadmium	0.32	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 15:04	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 15:04	1
Chromium	1.4	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 15:04	1
Iron	2100		100	13	ug/L		03/27/15 09:33	03/30/15 15:04	1
Manganese	28		15	0.46	ug/L		03/27/15 09:33	03/30/15 15:04	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 15:04	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 15:04	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 15:04	1
Vanadium	4.0	B ^	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 15:04	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 15:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9	J	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:35	1
Barium	42	J	100	1.0	ug/L		03/27/15 09:33	03/30/15 14:35	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:35	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:35	1
Cobalt	0.98	J	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:35	1
Chromium	1.1	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:35	1
Iron	100	U	100	13	ug/L		03/27/15 09:33	03/30/15 14:35	1
Manganese	8.5	J	15	0.46	ug/L		03/27/15 09:33	03/30/15 14:35	1
Nickel	2.3	J	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:35	1
Lead	2.3	J	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:35	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:35	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:35	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5	J	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:43	1
Barium	120		100	1.0	ug/L		03/27/15 09:33	03/30/15 14:43	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:43	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:43	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:43	1
Chromium	1.6	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:43	1
Iron	100	U	100	13	ug/L		03/27/15 09:33	03/30/15 14:43	1
Manganese	1.1	J	15	0.46	ug/L		03/27/15 09:33	03/30/15 14:43	1
Nickel	1.7	J	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:43	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:43	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:43	1
Vanadium	3.5	J B ^	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:43	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:43	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15003

Lab Sample ID: 240-48672-3

Date Collected: 03/25/15 14:56

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 14:52	1
Barium	77	J	100	1.0	ug/L		03/27/15 09:33	03/30/15 14:52	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 14:52	1
Cadmium	0.40	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 14:52	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 14:52	1
Chromium	1.4	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 14:52	1
Iron	100	U	100	13	ug/L		03/27/15 09:33	03/30/15 14:52	1
Manganese	0.99	J	15	0.46	ug/L		03/27/15 09:33	03/30/15 14:52	1
Nickel	2.5	J	20	0.76	ug/L		03/27/15 09:33	03/30/15 14:52	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 14:52	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 14:52	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 14:52	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 14:52	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Date Collected: 03/25/15 16:01

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	43		5.0	2.9	ug/L		03/27/15 09:33	03/30/15 15:00	1
Barium	140		100	1.0	ug/L		03/27/15 09:33	03/30/15 15:00	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 15:00	1
Cadmium	0.44	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 15:00	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 15:00	1
Chromium	0.81	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 15:00	1
Iron	1500		100	13	ug/L		03/27/15 09:33	03/30/15 15:00	1
Manganese	27		15	0.46	ug/L		03/27/15 09:33	03/30/15 15:00	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 15:00	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 15:00	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 15:00	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 15:00	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 15:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Date Collected: 03/25/15 16:02

Matrix: Water

Date Received: 03/26/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	44		5.0	2.9	ug/L		03/27/15 09:33	03/30/15 15:08	1
Barium	140		100	1.0	ug/L		03/27/15 09:33	03/30/15 15:08	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 15:08	1
Cadmium	0.36	J	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 15:08	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 15:08	1
Chromium	1.2	J	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 15:08	1
Iron	1500		100	13	ug/L		03/27/15 09:33	03/30/15 15:08	1
Manganese	28		15	0.46	ug/L		03/27/15 09:33	03/30/15 15:08	1
Nickel	2.4	J	20	0.76	ug/L		03/27/15 09:33	03/30/15 15:08	1
Lead	1.9	J	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 15:08	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 15:08	1
Vanadium	2.8	J B ^	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 15:08	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 15:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	59		50	9.0	ug/L		03/27/15 09:33	03/30/15 17:00	1
Antimony	0.76	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:00	1
Copper	1.9	J	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:00	1
Thallium	0.18	J	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:00	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:00	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11	J	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:23	1
Antimony	0.28	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:23	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:23	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:23	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	23	J	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:38	1
Antimony	0.24	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:38	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:38	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:38	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15004

Date Collected: 03/25/15 16:01

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11	J	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:46	1
Antimony	0.22	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:46	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:46	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:46	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13	J	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:53	1
Antimony	0.22	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:53	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:53	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:53	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:53	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:19	1
Antimony	0.73	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:19	1
Copper	1.7	J	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:19	1
Thallium	0.24	J	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:19	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:19	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:34	1
Antimony	0.26	J B	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:34	1
Copper	0.82	J	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:34	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:34	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:34	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:42	1
Antimony	2.0	U	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:42	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:42	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:42	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15004

Date Collected: 03/25/15 16:01

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:49	1
Antimony	2.0	U	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:49	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:49	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:49	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 17:57	1
Antimony	2.0	U	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 17:57	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 17:57	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 17:57	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 17:57	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 09:40	04/01/15 10:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:36	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:40	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032515-SSH-15004

Date Collected: 03/25/15 16:01

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 09:40	04/01/15 10:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15004

Date Collected: 03/25/15 16:01

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 09:40	04/01/15 10:47	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Client Sample ID: GW-12636-032515-SSH-15001

Date Collected: 03/25/15 12:41

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	-		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Client Sample ID: GW-12636-032515-SSH-15002

Date Collected: 03/25/15 13:46

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Client Sample ID: GW-12636-032515-SSH-15003

Date Collected: 03/25/15 14:56

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Client Sample ID: GW-12636-032515-SSH-15004

Date Collected: 03/25/15 16:01

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Client Sample ID: GW-12636-032515-SSH-15005

Date Collected: 03/25/15 16:02

Date Received: 03/26/15 10:30

Lab Sample ID: 240-48672-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		03/27/15 15:49	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

GC/MS VOA

Analysis Batch: 174730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Total/NA	Water	8260B	
240-48672-2	GW-12636-032515-SSH-15002	Total/NA	Water	8260B	
240-48672-3	GW-12636-032515-SSH-15003	Total/NA	Water	8260B	
240-48672-4	GW-12636-032515-SSH-15004	Total/NA	Water	8260B	
240-48672-5	GW-12636-032515-SSH-15005	Total/NA	Water	8260B	
240-48672-6	TB-12636-032515-SSH-15006	Total/NA	Water	8260B	
LCS 240-174730/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-174730/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 174047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Dissolved	Water	3005A	
240-48672-1	GW-12636-032515-SSH-15001	Total Recoverable	Water	3005A	
240-48672-1 MS	GW-12636-032515-SSH-15001	Total Recoverable	Water	3005A	
240-48672-1 MS	GW-12636-032515-SSH-15001	Total Recoverable	Water	3005A	
240-48672-1 MSD	GW-12636-032515-SSH-15001	Total Recoverable	Water	3005A	
240-48672-1 MSD	GW-12636-032515-SSH-15001	Total Recoverable	Water	3005A	
240-48672-2	GW-12636-032515-SSH-15002	Dissolved	Water	3005A	
240-48672-2	GW-12636-032515-SSH-15002	Total Recoverable	Water	3005A	
240-48672-3	GW-12636-032515-SSH-15003	Dissolved	Water	3005A	
240-48672-3	GW-12636-032515-SSH-15003	Total Recoverable	Water	3005A	
240-48672-4	GW-12636-032515-SSH-15004	Dissolved	Water	3005A	
240-48672-4	GW-12636-032515-SSH-15004	Total Recoverable	Water	3005A	
240-48672-5	GW-12636-032515-SSH-15005	Dissolved	Water	3005A	
240-48672-5	GW-12636-032515-SSH-15005	Total Recoverable	Water	3005A	
LCS 240-174047/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-174047/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-174047/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 174241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Dissolved	Water	6010B	174047
240-48672-1	GW-12636-032515-SSH-15001	Total Recoverable	Water	6010B	174047
240-48672-1 MS	GW-12636-032515-SSH-15001	Total Recoverable	Water	6010B	174047
240-48672-1 MSD	GW-12636-032515-SSH-15001	Total Recoverable	Water	6010B	174047
240-48672-2	GW-12636-032515-SSH-15002	Dissolved	Water	6010B	174047
240-48672-2	GW-12636-032515-SSH-15002	Total Recoverable	Water	6010B	174047
240-48672-3	GW-12636-032515-SSH-15003	Dissolved	Water	6010B	174047
240-48672-3	GW-12636-032515-SSH-15003	Total Recoverable	Water	6010B	174047
240-48672-4	GW-12636-032515-SSH-15004	Dissolved	Water	6010B	174047
240-48672-4	GW-12636-032515-SSH-15004	Total Recoverable	Water	6010B	174047
240-48672-5	GW-12636-032515-SSH-15005	Dissolved	Water	6010B	174047
240-48672-5	GW-12636-032515-SSH-15005	Total Recoverable	Water	6010B	174047
LCS 240-174047/2-A	Lab Control Sample	Total Recoverable	Water	6010B	174047
MB 240-174047/1-A	Method Blank	Total Recoverable	Water	6010B	174047

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Metals (Continued)

Analysis Batch: 174327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Dissolved	Water	6020	174047
240-48672-1	GW-12636-032515-SSH-15001	Total Recoverable	Water	6020	174047
240-48672-1 MS	GW-12636-032515-SSH-15001	Total Recoverable	Water	6020	174047
240-48672-1 MSD	GW-12636-032515-SSH-15001	Total Recoverable	Water	6020	174047
240-48672-2	GW-12636-032515-SSH-15002	Dissolved	Water	6020	174047
240-48672-2	GW-12636-032515-SSH-15002	Total Recoverable	Water	6020	174047
240-48672-3	GW-12636-032515-SSH-15003	Dissolved	Water	6020	174047
240-48672-3	GW-12636-032515-SSH-15003	Total Recoverable	Water	6020	174047
240-48672-4	GW-12636-032515-SSH-15004	Dissolved	Water	6020	174047
240-48672-4	GW-12636-032515-SSH-15004	Total Recoverable	Water	6020	174047
240-48672-5	GW-12636-032515-SSH-15005	Dissolved	Water	6020	174047
240-48672-5	GW-12636-032515-SSH-15005	Total Recoverable	Water	6020	174047
LCS 240-174047/3-A	Lab Control Sample	Total Recoverable	Water	6020	174047
MB 240-174047/1-A	Method Blank	Total Recoverable	Water	6020	174047

Prep Batch: 174427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	
240-48672-1	GW-12636-032515-SSH-15001	Total/NA	Water	7470A	
240-48672-1 MS	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	
240-48672-1 MSD	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	
240-48672-2	GW-12636-032515-SSH-15002	Dissolved	Water	7470A	
240-48672-2	GW-12636-032515-SSH-15002	Total/NA	Water	7470A	
240-48672-3	GW-12636-032515-SSH-15003	Dissolved	Water	7470A	
240-48672-3	GW-12636-032515-SSH-15003	Total/NA	Water	7470A	
240-48672-4	GW-12636-032515-SSH-15004	Dissolved	Water	7470A	
240-48672-4	GW-12636-032515-SSH-15004	Total/NA	Water	7470A	
240-48672-5	GW-12636-032515-SSH-15005	Dissolved	Water	7470A	
240-48672-5	GW-12636-032515-SSH-15005	Total/NA	Water	7470A	
LCS 240-174427/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-174427/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 174659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	174427
240-48672-1	GW-12636-032515-SSH-15001	Total/NA	Water	7470A	174427
240-48672-1 MS	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	174427
240-48672-1 MSD	GW-12636-032515-SSH-15001	Dissolved	Water	7470A	174427
240-48672-2	GW-12636-032515-SSH-15002	Dissolved	Water	7470A	174427
240-48672-2	GW-12636-032515-SSH-15002	Total/NA	Water	7470A	174427
240-48672-3	GW-12636-032515-SSH-15003	Dissolved	Water	7470A	174427
240-48672-3	GW-12636-032515-SSH-15003	Total/NA	Water	7470A	174427
240-48672-4	GW-12636-032515-SSH-15004	Dissolved	Water	7470A	174427
240-48672-4	GW-12636-032515-SSH-15004	Total/NA	Water	7470A	174427
240-48672-5	GW-12636-032515-SSH-15005	Dissolved	Water	7470A	174427
240-48672-5	GW-12636-032515-SSH-15005	Total/NA	Water	7470A	174427
LCS 240-174427/2-A	Lab Control Sample	Total/NA	Water	7470A	174427
MB 240-174427/1-A	Method Blank	Total/NA	Water	7470A	174427

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

General Chemistry

Analysis Batch: 174133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48672-1	GW-12636-032515-SSH-15001	Total/NA	Water	9012A	
240-48672-2	GW-12636-032515-SSH-15002	Total/NA	Water	9012A	
240-48672-3	GW-12636-032515-SSH-15003	Total/NA	Water	9012A	
240-48672-4	GW-12636-032515-SSH-15004	Total/NA	Water	9012A	
240-48672-5	GW-12636-032515-SSH-15005	Total/NA	Water	9012A	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Lab Sample ID: MB 240-174730/6

Matrix: Water

Analysis Batch: 174730

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			04/02/15 02:07	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 02:07	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 02:07	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 02:07	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 02:07	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 02:07	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 02:07	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 02:07	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 02:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 02:07	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 02:07	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 02:07	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 02:07	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 02:07	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 02:07	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 02:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 02:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 02:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 02:07	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 02:07	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 02:07	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 02:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 02:07	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 02:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 02:07	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 02:07	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 02:07	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 02:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 02:07	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 02:07	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 02:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 02:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 02:07	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 02:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 02:07	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 02:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 02:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 02:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 02:07	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 02:07	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 02:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 02:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 02:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 02:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 02:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 02:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 02:07	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 02:07	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Lab Sample ID: MB 240-174730/6

Matrix: Water

Analysis Batch: 174730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 02:07	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 02:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 129					04/02/15 02:07	1
4-Bromofluorobenzene (Surr)	84		66 - 120					04/02/15 02:07	1
Toluene-d8 (Surr)	89		74 - 120					04/02/15 02:07	1
Dibromofluoromethane (Surr)	101		75 - 121					04/02/15 02:07	1

Lab Sample ID: LCS 240-174730/4

Matrix: Water

Analysis Batch: 174730

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	23.3		ug/L		117	43 - 136
Benzene	10.0	10.9		ug/L		109	80 - 120
Bromodichloromethane	10.0	9.89		ug/L		99	72 - 121
Bromoform	10.0	8.72		ug/L		87	40 - 131
Bromomethane	10.0	8.98		ug/L		90	11 - 185
2-Butanone (MEK)	20.0	21.1		ug/L		105	60 - 126
Carbon disulfide	10.0	11.3		ug/L		113	62 - 142
Carbon tetrachloride	10.0	10.3		ug/L		103	66 - 128
Chlorobenzene	10.0	9.84		ug/L		98	80 - 120
Chloroethane	10.0	9.36		ug/L		94	25 - 153
Chloroform	10.0	10.7		ug/L		107	79 - 120
Chloromethane	10.0	11.0		ug/L		110	44 - 126
1,1-Dichloroethane	10.0	11.1		ug/L		111	80 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	71 - 127
1,1-Dichloroethene	10.0	10.6		ug/L		106	78 - 131
1,2-Dichloropropane	10.0	10.8		ug/L		108	80 - 120
1,2,4-Trimethylbenzene	10.0	9.88		ug/L		99	76 - 120
cis-1,3-Dichloropropene	10.0	9.72		ug/L		97	61 - 120
trans-1,3-Dichloropropene	10.0	9.90		ug/L		99	58 - 120
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
2-Hexanone	20.0	22.3		ug/L		112	55 - 133
Methylene Chloride	10.0	11.5		ug/L		115	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	20.5		ug/L		102	63 - 128
Styrene	10.0	9.84		ug/L		98	79 - 120
1,1,2,2-Tetrachloroethane	10.0	10.2		ug/L		102	68 - 120
Tetrachloroethene	10.0	9.51		ug/L		95	79 - 120
Toluene	10.0	10.4		ug/L		104	80 - 120
Trichloroethene	10.0	10.1		ug/L		101	76 - 120
1,3,5-Trimethylbenzene	10.0	10.0		ug/L		100	72 - 120
Vinyl chloride	10.0	10.3		ug/L		103	53 - 127
Xylenes, Total	20.0	20.2		ug/L		101	80 - 120
1,1,1-Trichloroethane	10.0	9.88		ug/L		99	74 - 120
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 120
Cyclohexane	10.0	10.9		ug/L		109	54 - 121

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Lab Sample ID: LCS 240-174730/4

Matrix: Water

Analysis Batch: 174730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	8.30		ug/L		83	42 - 136
1,2-Dibromoethane	10.0	9.74		ug/L		97	79 - 120
Dichlorodifluoromethane	10.0	9.45		ug/L		94	19 - 129
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 120
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120
Isopropylbenzene	10.0	9.70		ug/L		97	75 - 120
Methyl acetate	50.0	57.1		ug/L		114	58 - 131
Methyl tert-butyl ether	10.0	9.18		ug/L		92	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.76		ug/L		98	74 - 151
1,2,4-Trichlorobenzene	10.0	8.39		ug/L		84	48 - 135
1,2-Dichlorobenzene	10.0	9.62		ug/L		96	80 - 120
1,3-Dichlorobenzene	10.0	9.27		ug/L		93	80 - 120
1,4-Dichlorobenzene	10.0	9.28		ug/L		93	80 - 120
Trichlorofluoromethane	10.0	9.19		ug/L		92	49 - 157
Dibromochloromethane	10.0	9.32		ug/L		93	64 - 120
Methylcyclohexane	10.0	9.97		ug/L		100	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	101		66 - 120
Toluene-d8 (Surr)	96		74 - 120
Dibromofluoromethane (Surr)	93		75 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-174047/1-A

Matrix: Water

Analysis Batch: 174241

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/27/15 09:33	03/30/15 13:59	1
Barium	100	U	100	1.0	ug/L		03/27/15 09:33	03/30/15 13:59	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/27/15 09:33	03/30/15 13:59	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/27/15 09:33	03/30/15 13:59	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/27/15 09:33	03/30/15 13:59	1
Chromium	5.0	U	5.0	0.55	ug/L		03/27/15 09:33	03/30/15 13:59	1
Iron	100	U	100	13	ug/L		03/27/15 09:33	03/30/15 13:59	1
Manganese	15	U	15	0.46	ug/L		03/27/15 09:33	03/30/15 13:59	1
Nickel	20	U	20	0.76	ug/L		03/27/15 09:33	03/30/15 13:59	1
Lead	3.0	U	3.0	1.9	ug/L		03/27/15 09:33	03/30/15 13:59	1
Selenium	5.0	U	5.0	4.0	ug/L		03/27/15 09:33	03/30/15 13:59	1
Vanadium	3.10	J	4.0	2.4	ug/L		03/27/15 09:33	03/30/15 13:59	1
Zinc	20	U	20	9.6	ug/L		03/27/15 09:33	03/30/15 13:59	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Lab Sample ID: LCS 240-174047/2-A

Matrix: Water

Analysis Batch: 174241

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	1920		ug/L		96	80 - 120
Barium	2000	1870		ug/L		94	80 - 120
Beryllium	50.0	46.2		ug/L		92	80 - 120
Cadmium	50.0	50.4		ug/L		101	80 - 120
Cobalt	500	457		ug/L		91	80 - 120
Chromium	200	185		ug/L		92	80 - 120
Iron	1000	946		ug/L		95	80 - 120
Manganese	500	475		ug/L		95	80 - 120
Nickel	500	464		ug/L		93	80 - 120
Lead	500	453		ug/L		91	80 - 120
Selenium	2000	2120		ug/L		106	80 - 120
Vanadium	500	498		ug/L		100	80 - 120
Zinc	500	468		ug/L		94	80 - 120

Lab Sample ID: 240-48672-1 MS

Matrix: Water

Analysis Batch: 174241

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.3	J	2000	2050		ug/L		102	75 - 125
Barium	44	J	2000	2030		ug/L		100	75 - 125
Beryllium	1.0	U	50.0	49.0		ug/L		98	75 - 125
Cadmium	1.0	U	50.0	53.6		ug/L		107	75 - 125
Cobalt	7.0	U	500	487		ug/L		97	75 - 125
Chromium	1.2	J	200	193		ug/L		96	75 - 125
Iron	67	J	1000	1070		ug/L		100	75 - 125
Manganese	15		500	509		ug/L		99	75 - 125
Nickel	20	U	500	491		ug/L		98	75 - 125
Lead	3.0	U	500	472		ug/L		94	75 - 125
Selenium	5.0	U	2000	2230		ug/L		112	75 - 125
Vanadium	4.0	U	500	535		ug/L		107	75 - 125
Zinc	13	J	500	501		ug/L		98	75 - 125

Lab Sample ID: 240-48672-1 MSD

Matrix: Water

Analysis Batch: 174241

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	4.3	J	2000	1950		ug/L		97	75 - 125	5	20
Barium	44	J	2000	1940		ug/L		95	75 - 125	5	20
Beryllium	1.0	U	50.0	47.1		ug/L		94	75 - 125	4	20
Cadmium	1.0	U	50.0	50.9		ug/L		102	75 - 125	5	20
Cobalt	7.0	U	500	466		ug/L		93	75 - 125	4	20
Chromium	1.2	J	200	186		ug/L		93	75 - 125	4	20
Iron	67	J	1000	1020		ug/L		95	75 - 125	4	20
Manganese	15		500	489		ug/L		95	75 - 125	4	20
Nickel	20	U	500	470		ug/L		94	75 - 125	4	20
Lead	3.0	U	500	453		ug/L		91	75 - 125	4	20

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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

Lab Sample ID: 240-48672-1 MSD

Matrix: Water

Analysis Batch: 174241

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	5.0	U	2000	2110		ug/L		106	75 - 125	5	20
Vanadium	4.0	U	500	517		ug/L		103	75 - 125	3	20
Zinc	13	J	500	482		ug/L		94	75 - 125	4	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-174047/1-A

Matrix: Water

Analysis Batch: 174327

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/27/15 09:33	03/30/15 16:53	1
Antimony	0.180	J	2.0	0.16	ug/L		03/27/15 09:33	03/30/15 16:53	1
Copper	2.0	U	2.0	0.75	ug/L		03/27/15 09:33	03/30/15 16:53	1
Thallium	1.0	U	1.0	0.074	ug/L		03/27/15 09:33	03/30/15 16:53	1
Silver	0.20	U	0.20	0.020	ug/L		03/27/15 09:33	03/30/15 16:53	1

Lab Sample ID: LCS 240-174047/3-A

Matrix: Water

Analysis Batch: 174327

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9530		ug/L		95	80 - 120
Antimony	100	103		ug/L		103	80 - 120
Copper	1000	1030		ug/L		103	80 - 120
Thallium	250	242		ug/L		97	80 - 120
Silver	100	97.1		ug/L		97	80 - 120

Lab Sample ID: 240-48672-1 MS

Matrix: Water

Analysis Batch: 174327

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	59		10000	10100		ug/L		100	75 - 125
Antimony	0.76	J B	100	111		ug/L		110	75 - 125
Copper	1.9	J	1000	1030		ug/L		103	75 - 125
Thallium	0.18	J	250	239		ug/L		96	75 - 125
Silver	0.20	U	100	101		ug/L		101	75 - 125

Lab Sample ID: 240-48672-1 MSD

Matrix: Water

Analysis Batch: 174327

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Total Recoverable

Prep Batch: 174047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	59		10000	10100		ug/L		101	75 - 125	1	20
Antimony	0.76	J B	100	109		ug/L		109	75 - 125	1	20
Copper	1.9	J	1000	1040		ug/L		103	75 - 125	1	20
Thallium	0.18	J	250	239		ug/L		96	75 - 125	0	20
Silver	0.20	U	100	99.0		ug/L		99	75 - 125	2	20

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-174427/1-A

Matrix: Water

Analysis Batch: 174659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 09:40	04/01/15 10:24	1

Lab Sample ID: LCS 240-174427/2-A

Matrix: Water

Analysis Batch: 174659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.37		ug/L		107	80 - 120

Lab Sample ID: 240-48672-1 MS

Matrix: Water

Analysis Batch: 174659

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Dissolved

Prep Batch: 174427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 240-48672-1 MSD

Matrix: Water

Analysis Batch: 174659

Client Sample ID: GW-12636-032515-SSH-15001

Prep Type: Dissolved

Prep Batch: 174427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.08		ug/L		108	80 - 120	0	20

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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 (63-129)	BFB (66-120)	TOL (74-120)	DBFM (75-121)
240-48672-1	GW-12636-032515-SSH-15001	104	84	91	101
240-48672-2	GW-12636-032515-SSH-15002	106	83	90	103
240-48672-3	GW-12636-032515-SSH-15003	105	84	90	104
240-48672-4	GW-12636-032515-SSH-15004	107	85	90	106
240-48672-5	GW-12636-032515-SSH-15005	106	84	89	104
240-48672-6	TB-12636-032515-SSH-15006	106	84	92	103
LCS 240-174730/4	Lab Control Sample	91	101	96	93
MB 240-174730/6	Method Blank	102	84	89	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15001

Lab Sample ID: 240-48672-1

Date Collected: 03/25/15 12:41

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 06:37	LRW	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174241	03/30/15 14:35	KLC	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174241	03/30/15 14:07	KLC	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6020		1	174327	03/30/15 17:19	AS1	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174327	03/30/15 17:00	AS1	TAL CAN
Dissolved	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174659	04/01/15 10:27	BW	TAL CAN
Total/NA	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174659	04/01/15 10:35	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032515-SSH-15002

Lab Sample ID: 240-48672-2

Date Collected: 03/25/15 13:46

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 07:00	LRW	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174241	03/30/15 14:43	KLC	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174241	03/30/15 14:39	KLC	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6020		1	174327	03/30/15 17:34	AS1	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174327	03/30/15 17:23	AS1	TAL CAN
Dissolved	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174659	04/01/15 10:38	BW	TAL CAN
Total/NA	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174659	04/01/15 10:36	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032515-SSH-15003

Lab Sample ID: 240-48672-3

Date Collected: 03/25/15 14:56

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 07:23	LRW	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174241	03/30/15 14:52	KLC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15003

Lab Sample ID: 240-48672-3

Date Collected: 03/25/15 14:56

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174241	03/30/15 14:48	KLC	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6020		1	174327	03/30/15 17:42	AS1	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174327	03/30/15 17:38	AS1	TAL CAN
Dissolved	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174659	04/01/15 10:41	BW	TAL CAN
Total/NA	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174659	04/01/15 10:40	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032515-SSH-15004

Lab Sample ID: 240-48672-4

Date Collected: 03/25/15 16:01

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 07:45	LRW	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174241	03/30/15 15:00	KLC	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174241	03/30/15 14:56	KLC	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6020		1	174327	03/30/15 17:49	AS1	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174327	03/30/15 17:46	AS1	TAL CAN
Dissolved	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174659	04/01/15 10:44	BW	TAL CAN
Total/NA	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174659	04/01/15 10:43	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Date Collected: 03/25/15 16:02

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 08:08	LRW	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174241	03/30/15 15:08	KLC	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174241	03/30/15 15:04	KLC	TAL CAN
Dissolved	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

Client Sample ID: GW-12636-032515-SSH-15005

Lab Sample ID: 240-48672-5

Date Collected: 03/25/15 16:02

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6020		1	174327	03/30/15 17:57	AS1	TAL CAN
Total Recoverable	Prep	3005A			174047	03/27/15 09:33	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174327	03/30/15 17:53	AS1	TAL CAN
Dissolved	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174659	04/01/15 10:47	BW	TAL CAN
Total/NA	Prep	7470A			174427	03/31/15 09:40	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174659	04/01/15 10:46	BW	TAL CAN
Total/NA	Analysis	9012A		1	174133	03/27/15 15:49	SEM	TAL CAN

Client Sample ID: TB-12636-032515-SSH-15006

Lab Sample ID: 240-48672-6

Date Collected: 03/25/15 15:00

Matrix: Water

Date Received: 03/26/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174730	04/02/15 08:31	LRW	TAL CAN

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48672-1

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	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-48672 Chain of Custody



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

4.8/CS.3

COC NO. PL- 08096

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 12636-T09-001415		Laboratory Name: TestAmerica		Lab Location: North Canton, OH		SSOW ID: 12636-T09-008	
Project Name: Racetrack Coldwater Rd.		Lab Contact: D. Heckler		Lab Quote No: 24005826		Cooler No:	
Project Location: Genesee Twp, MI		SAMPLE TYPE: Grab (G) or Comp (C)		CONTAINER QUANTITY & PRESERVATION		Carrier: FedEx	
Chemistry Contact: R. Fleisher		Matrix Code		Unpreserved		ANALYSIS REQUESTED: (See Back of COC for Definitions)	
Sampler(s): S. Hower		DATE (mm/dd/yyyy)		TIME (hh:mm)		Airbill No: 805943248340	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		Date Shipped: 3/25/15	
1 GW-12636-032515-SSA-15001		3/25/15		1241		MS/MSD Request	
2 / -15002		3/25/15		1246		COMMENTS/ SPECIAL INSTRUCTIONS:	
3 / -15003		3/25/15		1246			
4 / -15004		3/25/15		1604			
5 GW-12636-032515-SSA-15005		3/25/15		1602			
6 TB-12636-032515-SSA-15006		3/25/15		1500			
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TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>48672</u>
Canton Facility		
Client <u>ORA</u>	Site Name <u>Lochee Plant</u>	Cooler unpacked by: <u>Flather Power</u>
Cooler Received on <u>3/26/15</u>	Opened on <u>3/26/15</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 +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. <u>4.8</u> °C Corrected Cooler Temp. <u>5.3</u> °C IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		Yes No
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes No NA
-Were custody seals on the bottle(s)?		Yes No
3. Shippers' packing slip attached to the cooler(s)?		Yes No
4. Did custody papers accompany the sample(s)?		Yes No
5. Were the custody papers relinquished & signed in the appropriate place?		Yes No
6. Was/were the sampler(s) clearly identified on the COC?		Yes No
7. Did all bottles arrive in good condition (Unbroken)?		Yes No
8. Could all bottle labels be reconciled with the COC?		Yes No
9. Were correct bottle(s) used for the test(s) indicated?		Yes No
10. Sufficient quantity received to perform indicated analyses?		Yes No
11. Were sample(s) at the correct pH upon receipt?		Yes No NA
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 # <u>covered</u>		Yes No
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other Concerning _____		

☐ See Multiple Cooler Form

pH Strip Lot# HC425511

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): _____	

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: 240-48746-1

Client Project/Site: 12636-T09-008, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

4/8/2015 8:17:15 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

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results through

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www.testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Job ID: 240-48746-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09-008, RACER Peregrine

Report Number: 240-48746-1

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 03/28/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples GW-12636-032715-SSH-15013 (240-48746-1), GW-12636-032715-SSH-15014 (240-48746-2), TB-12636-032715-SSH-15015 (240-48746-3), GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/01/2015, 04/02/2015 and 04/03/2015.

Methylene Chloride was detected in method blank MB 240-174825/6 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.

2-Butanone (MEK) and Methylene Chloride were detected in method blank MB 240-174976/6 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.

2-Butanone (MEK) failed the recovery criteria high for LCS 240-174976/4. This analyte was biased high in the LCS and was not detected

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Job ID: 240-48746-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

in the associated samples; therefore, the data have been reported.

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

DISSOLVED METALS (ICP)

Samples GW-12636-032715-SSH-15013 (240-48746-1), GW-12636-032715-SSH-15014 (240-48746-2), GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

TOTAL RECOVERABLE METALS (ICP)

Samples GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Barium, Chromium, Iron and Manganese were detected in method blank MB 240-174273/1-A 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.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

DISSOLVED METALS (ICPMS)

Samples GW-12636-032715-SSH-15013 (240-48746-1), GW-12636-032715-SSH-15014 (240-48746-2), GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/30/2015 and analyzed on 03/31/2015.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

DISSOLVED MERCURY

Samples GW-12636-032715-SSH-15013 (240-48746-1), GW-12636-032715-SSH-15014 (240-48746-2), GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6),

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Job ID: 240-48746-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/31/2015.

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

TOTAL MERCURY

Samples GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 03/31/2015.

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

AMENABLE CYANIDE

Samples GW-12636-032715-SSH-15013 (240-48746-1), GW-12636-032715-SSH-15014 (240-48746-2), GW-12636-032715-SSH-15016 (240-48746-4), GW-12636-032715-SSH-15017 (240-48746-5), GW-12636-032715-SSH-15018 (240-48746-6), GW-12636-032715-SSH-15019 (240-48746-7) and GW-12636-032715-SSH-15020 (240-48746-8) were analyzed for amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were analyzed on 04/02/2015.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-48746-1	GW-12636-032715-SSH-15013	Water	03/27/15 09:06	03/28/15 09:50
240-48746-2	GW-12636-032715-SSH-15014	Water	03/27/15 10:26	03/28/15 09:50
240-48746-3	TB-12636-032715-SSH-15015	Water	03/27/15 10:00	03/28/15 09:50
240-48746-4	GW-12636-032715-SSH-15016	Water	03/27/15 11:41	03/28/15 09:50
240-48746-5	GW-12636-032715-SSH-15017	Water	03/27/15 12:16	03/28/15 09:50
240-48746-6	GW-12636-032715-SSH-15018	Water	03/27/15 13:46	03/28/15 09:50
240-48746-7	GW-12636-032715-SSH-15019	Water	03/27/15 14:46	03/28/15 09:50
240-48746-8	GW-12636-032715-SSH-15020	Water	03/27/15 14:47	03/28/15 09:50

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15013

Lab Sample ID: 240-48746-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	34		5.0	2.9	ug/L	1		6010B	Dissolved
Barium	200	B	100	1.0	ug/L	1		6010B	Dissolved
Chromium	1.0	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Iron	200	B	100	13	ug/L	1		6010B	Dissolved
Manganese	41	B	15	0.46	ug/L	1		6010B	Dissolved
Antimony	0.57	J	2.0	0.16	ug/L	1		6020	Dissolved
Thallium	0.21	J	1.0	0.074	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032715-SSH-15014

Lab Sample ID: 240-48746-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	0.94	ug/L	1		8260B	Total/NA
Arsenic	6.1		5.0	2.9	ug/L	1		6010B	Dissolved
Barium	10	J B	100	1.0	ug/L	1		6010B	Dissolved
Cadmium	0.50	J	1.0	0.14	ug/L	1		6010B	Dissolved
Chromium	1.5	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Manganese	36	B	15	0.46	ug/L	1		6010B	Dissolved
Nickel	4.0	J	20	0.76	ug/L	1		6010B	Dissolved
Antimony	0.73	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	0.89	J	2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: TB-12636-032715-SSH-15015

Lab Sample ID: 240-48746-3

No Detections.

Client Sample ID: GW-12636-032715-SSH-15016

Lab Sample ID: 240-48746-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9	J	5.0	2.9	ug/L	1		6010B	Total
Barium	47	J B	100	1.0	ug/L	1		6010B	Recoverable
Cadmium	0.19	J	1.0	0.14	ug/L	1		6010B	Total
Chromium	0.72	J B	5.0	0.55	ug/L	1		6010B	Recoverable
Iron	1100	B	100	13	ug/L	1		6010B	Total
Manganese	760	B	15	0.46	ug/L	1		6010B	Recoverable
Vanadium	3.7	J	4.0	2.4	ug/L	1		6010B	Total
Barium	47	J B	100	1.0	ug/L	1		6010B	Recoverable
Cobalt	0.61	J	7.0	0.56	ug/L	1		6010B	Dissolved
Chromium	1.6	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Iron	990	B	100	13	ug/L	1		6010B	Dissolved
Manganese	870	B	15	0.46	ug/L	1		6010B	Dissolved
Vanadium	2.7	J	4.0	2.4	ug/L	1		6010B	Dissolved
Aluminum	18	J	50	9.0	ug/L	1		6020	Total
Antimony	0.55	J	2.0	0.16	ug/L	1		6020	Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.43	J	1.0	0.26	ug/L	1		8260B	Total/NA
Barium	20	J B	100	1.0	ug/L	1		6010B	Total Recoverable
Iron	200	B	100	13	ug/L	1		6010B	Total Recoverable
Manganese	100	B	15	0.46	ug/L	1		6010B	Total Recoverable
Nickel	1.4	J	20	0.76	ug/L	1		6010B	Total Recoverable
Vanadium	6.2		4.0	2.4	ug/L	1		6010B	Total Recoverable
Zinc	16	J	20	9.6	ug/L	1		6010B	Total Recoverable
Barium	21	J B	100	1.0	ug/L	1		6010B	Dissolved
Manganese	18	B	15	0.46	ug/L	1		6010B	Dissolved
Vanadium	4.0		4.0	2.4	ug/L	1		6010B	Dissolved
Aluminum	160		50	9.0	ug/L	1		6020	Total Recoverable
Antimony	0.49	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Copper	3.0		2.0	0.75	ug/L	1		6020	Total Recoverable
Antimony	0.24	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	2.7		2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	10	0.94	ug/L	1		8260B	Total/NA
Barium	36	J B	100	1.0	ug/L	1		6010B	Total Recoverable
Chromium	1.3	J B	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	27	J B	100	13	ug/L	1		6010B	Total Recoverable
Manganese	2.2	J B	15	0.46	ug/L	1		6010B	Total Recoverable
Vanadium	3.1	J	4.0	2.4	ug/L	1		6010B	Total Recoverable
Barium	36	J B	100	1.0	ug/L	1		6010B	Dissolved
Chromium	1.0	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Nickel	0.80	J	20	0.76	ug/L	1		6010B	Dissolved
Vanadium	5.5		4.0	2.4	ug/L	1		6010B	Dissolved
Antimony	0.23	J	2.0	0.16	ug/L	1		6020	Total Recoverable
Copper	0.81	J	2.0	0.75	ug/L	1		6020	Total Recoverable
Antimony	0.16	J	2.0	0.16	ug/L	1		6020	Dissolved
Copper	1.1	J	2.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: GW-12636-032715-SSH-15019

Lab Sample ID: 240-48746-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		5.0	2.9	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15019 (Continued)

Lab Sample ID: 240-48746-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Barium	230	B	100	1.0	ug/L	1			6010B	Total
										Recoverable
Cadmium	0.39	J	1.0	0.14	ug/L	1			6010B	Total
										Recoverable
Cobalt	8.8		7.0	0.56	ug/L	1			6010B	Total
										Recoverable
Chromium	1.8	J B	5.0	0.55	ug/L	1			6010B	Total
										Recoverable
Iron	2100	B	100	13	ug/L	1			6010B	Total
										Recoverable
Manganese	1500	B	15	0.46	ug/L	1			6010B	Total
										Recoverable
Nickel	6.7	J	20	0.76	ug/L	1			6010B	Total
										Recoverable
Zinc	27		20	9.6	ug/L	1			6010B	Total
										Recoverable
Arsenic	7.6		5.0	2.9	ug/L	1			6010B	Dissolved
Barium	220	B	100	1.0	ug/L	1			6010B	Dissolved
Cadmium	0.33	J	1.0	0.14	ug/L	1			6010B	Dissolved
Cobalt	9.3		7.0	0.56	ug/L	1			6010B	Dissolved
Chromium	1.8	J B	5.0	0.55	ug/L	1			6010B	Dissolved
Iron	1900	B	100	13	ug/L	1			6010B	Dissolved
Manganese	1500	B	15	0.46	ug/L	1			6010B	Dissolved
Nickel	6.6	J	20	0.76	ug/L	1			6010B	Dissolved
Zinc	24		20	9.6	ug/L	1			6010B	Dissolved
Aluminum	36	J	50	9.0	ug/L	1			6020	Total
										Recoverable
Antimony	0.62	J	2.0	0.16	ug/L	1			6020	Total
										Recoverable
Copper	3.1		2.0	0.75	ug/L	1			6020	Total
										Recoverable
Thallium	0.25	J	1.0	0.074	ug/L	1			6020	Total
										Recoverable
Antimony	0.55	J	2.0	0.16	ug/L	1			6020	Dissolved
Copper	1.9	J	2.0	0.75	ug/L	1			6020	Dissolved
Thallium	0.23	J	1.0	0.074	ug/L	1			6020	Dissolved

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	7.7		5.0	2.9	ug/L	1			6010B	Total
										Recoverable
Barium	220	B	100	1.0	ug/L	1			6010B	Total
										Recoverable
Cadmium	0.50	J	1.0	0.14	ug/L	1			6010B	Total
										Recoverable
Cobalt	8.6		7.0	0.56	ug/L	1			6010B	Total
										Recoverable
Chromium	2.0	J B	5.0	0.55	ug/L	1			6010B	Total
										Recoverable
Iron	2100	B	100	13	ug/L	1			6010B	Total
										Recoverable
Manganese	1500	B	15	0.46	ug/L	1			6010B	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15020 (Continued)

Lab Sample ID: 240-48746-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	6.5	J	20	0.76	ug/L	1		6010B	Total
Zinc	26		20	9.6	ug/L	1		6010B	Recoverable
Arsenic	6.2		5.0	2.9	ug/L	1		6010B	Total
Barium	220	B	100	1.0	ug/L	1		6010B	Recoverable
Cadmium	0.40	J	1.0	0.14	ug/L	1		6010B	Dissolved
Cobalt	8.8		7.0	0.56	ug/L	1		6010B	Dissolved
Chromium	1.3	J B	5.0	0.55	ug/L	1		6010B	Dissolved
Iron	1700	B	100	13	ug/L	1		6010B	Dissolved
Manganese	1500	B	15	0.46	ug/L	1		6010B	Dissolved
Nickel	7.0	J	20	0.76	ug/L	1		6010B	Dissolved
Zinc	24		20	9.6	ug/L	1		6010B	Dissolved
Aluminum	37	J	50	9.0	ug/L	1		6020	Total
Antimony	0.63	J	2.0	0.16	ug/L	1		6020	Recoverable
Copper	3.1		2.0	0.75	ug/L	1		6020	Total
Thallium	0.23	J	1.0	0.074	ug/L	1		6020	Recoverable
Antimony	0.55	J	2.0	0.16	ug/L	1		6020	Total
Copper	2.5		2.0	0.75	ug/L	1		6020	Recoverable
Thallium	0.22	J	1.0	0.074	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Amenable	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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15013

Date Collected: 03/27/15 09:06

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/01/15 08:13	1
Benzene	1.0	U	1.0	0.35	ug/L			04/01/15 08:13	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/01/15 08:13	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/01/15 08:13	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/01/15 08:13	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/01/15 08:13	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/01/15 08:13	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/01/15 08:13	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/01/15 08:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/01/15 08:13	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/01/15 08:13	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/01/15 08:13	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/01/15 08:13	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/01/15 08:13	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/01/15 08:13	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/01/15 08:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/01/15 08:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/01/15 08:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/01/15 08:13	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/01/15 08:13	1
2-Hexanone	10	U	10	0.48	ug/L			04/01/15 08:13	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/01/15 08:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/01/15 08:13	1
Styrene	1.0	U	1.0	0.45	ug/L			04/01/15 08:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/01/15 08:13	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/01/15 08:13	1
Toluene	1.0	U	1.0	0.23	ug/L			04/01/15 08:13	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/01/15 08:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/01/15 08:13	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/01/15 08:13	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/01/15 08:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/01/15 08:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/01/15 08:13	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/01/15 08:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/01/15 08:13	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/01/15 08:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/01/15 08:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/01/15 08:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/01/15 08:13	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/01/15 08:13	1
Methyl acetate	10	U	10	2.3	ug/L			04/01/15 08:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/01/15 08:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/01/15 08:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/01/15 08:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/01/15 08:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/01/15 08:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/01/15 08:13	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/01/15 08:13	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/01/15 08:13	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15013

Lab Sample ID: 240-48746-1

Date Collected: 03/27/15 09:06

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/01/15 08:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 129					04/01/15 08:13	1
4-Bromofluorobenzene (Surr)	85		66 - 120					04/01/15 08:13	1
Toluene-d8 (Surr)	90		74 - 120					04/01/15 08:13	1
Dibromofluoromethane (Surr)	101		75 - 121					04/01/15 08:13	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15014

Date Collected: 03/27/15 10:26

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.6	J	10	0.94	ug/L			04/02/15 22:18	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 22:18	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 22:18	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 22:18	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:18	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 22:18	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 22:18	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 22:18	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:18	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 22:18	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:18	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 22:18	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 22:18	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 22:18	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 22:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 22:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 22:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 22:18	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:18	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 22:18	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 22:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 22:18	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 22:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 22:18	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 22:18	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 22:18	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 22:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 22:18	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 22:18	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 22:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 22:18	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 22:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 22:18	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 22:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 22:18	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 22:18	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 22:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 22:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 22:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 22:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 22:18	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 22:18	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 22:18	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15014

Lab Sample ID: 240-48746-2

Date Collected: 03/27/15 10:26

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 129					04/02/15 22:18	1
4-Bromofluorobenzene (Surr)	99		66 - 120					04/02/15 22:18	1
Toluene-d8 (Surr)	101		74 - 120					04/02/15 22:18	1
Dibromofluoromethane (Surr)	95		75 - 121					04/02/15 22:18	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: TB-12636-032715-SSH-15015

Date Collected: 03/27/15 10:00

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 22:41	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 22:41	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 22:41	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 22:41	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:41	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 22:41	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 22:41	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 22:41	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:41	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 22:41	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:41	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 22:41	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 22:41	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 22:41	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 22:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 22:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 22:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 22:41	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:41	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 22:41	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 22:41	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 22:41	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 22:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 22:41	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 22:41	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 22:41	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 22:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 22:41	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 22:41	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 22:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 22:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 22:41	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 22:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 22:41	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 22:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 22:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 22:41	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 22:41	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 22:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 22:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 22:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 22:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 22:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 22:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 22:41	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 22:41	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 22:41	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: TB-12636-032715-SSH-15015

Lab Sample ID: 240-48746-3

Date Collected: 03/27/15 10:00

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129					04/02/15 22:41	1
4-Bromofluorobenzene (Surr)	99		66 - 120					04/02/15 22:41	1
Toluene-d8 (Surr)	101		74 - 120					04/02/15 22:41	1
Dibromofluoromethane (Surr)	92		75 - 121					04/02/15 22:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/02/15 23:04	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 23:04	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 23:04	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 23:04	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 23:04	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 23:04	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 23:04	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 23:04	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 23:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 23:04	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 23:04	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 23:04	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 23:04	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 23:04	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 23:04	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 23:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 23:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 23:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 23:04	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 23:04	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 23:04	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/02/15 23:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 23:04	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 23:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 23:04	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 23:04	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 23:04	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 23:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 23:04	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 23:04	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 23:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 23:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 23:04	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 23:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 23:04	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 23:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 23:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 23:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 23:04	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 23:04	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 23:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 23:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 23:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 23:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 23:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 23:04	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 23:04	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 23:04	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15016

Lab Sample ID: 240-48746-4

Date Collected: 03/27/15 11:41

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 129					04/02/15 23:04	1
4-Bromofluorobenzene (Surr)	101		66 - 120					04/02/15 23:04	1
Toluene-d8 (Surr)	100		74 - 120					04/02/15 23:04	1
Dibromofluoromethane (Surr)	95		75 - 121					04/02/15 23:04	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15017

Date Collected: 03/27/15 12:16

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/03/15 12:43	1
Benzene	1.0	U	1.0	0.35	ug/L			04/03/15 12:43	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/03/15 12:43	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/03/15 12:43	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:43	1
2-Butanone (MEK)	10	U *	10	0.53	ug/L			04/03/15 12:43	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/03/15 12:43	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/03/15 12:43	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:43	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/03/15 12:43	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:43	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/03/15 12:43	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/03/15 12:43	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/03/15 12:43	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/03/15 12:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/03/15 12:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/03/15 12:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/03/15 12:43	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:43	1
2-Hexanone	10	U	10	0.48	ug/L			04/03/15 12:43	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/03/15 12:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/03/15 12:43	1
Styrene	1.0	U	1.0	0.45	ug/L			04/03/15 12:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/03/15 12:43	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/03/15 12:43	1
Toluene	1.0	U	1.0	0.23	ug/L			04/03/15 12:43	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/03/15 12:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/03/15 12:43	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/03/15 12:43	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/03/15 12:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/03/15 12:43	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/03/15 12:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/03/15 12:43	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:43	1
cis-1,2-Dichloroethene	0.43	J	1.0	0.26	ug/L			04/03/15 12:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/03/15 12:43	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/03/15 12:43	1
Methyl acetate	10	U	10	2.3	ug/L			04/03/15 12:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/03/15 12:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/03/15 12:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/03/15 12:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/03/15 12:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/03/15 12:43	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/03/15 12:43	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/03/15 12:43	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Date Collected: 03/27/15 12:16

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/03/15 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 129					04/03/15 12:43	1
4-Bromofluorobenzene (Surr)	98		66 - 120					04/03/15 12:43	1
Toluene-d8 (Surr)	101		74 - 120					04/03/15 12:43	1
Dibromofluoromethane (Surr)	95		75 - 121					04/03/15 12:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.7	J	10	0.94	ug/L			04/03/15 15:23	1
Benzene	1.0	U	1.0	0.35	ug/L			04/03/15 15:23	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/03/15 15:23	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/03/15 15:23	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:23	1
2-Butanone (MEK)	10	U *	10	0.53	ug/L			04/03/15 15:23	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/03/15 15:23	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/03/15 15:23	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:23	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:23	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/03/15 15:23	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:23	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/03/15 15:23	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/03/15 15:23	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/03/15 15:23	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/03/15 15:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/03/15 15:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/03/15 15:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/03/15 15:23	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:23	1
2-Hexanone	10	U	10	0.48	ug/L			04/03/15 15:23	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/03/15 15:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/03/15 15:23	1
Styrene	1.0	U	1.0	0.45	ug/L			04/03/15 15:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/03/15 15:23	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/03/15 15:23	1
Toluene	1.0	U	1.0	0.23	ug/L			04/03/15 15:23	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/03/15 15:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/03/15 15:23	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/03/15 15:23	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/03/15 15:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/03/15 15:23	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/03/15 15:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/03/15 15:23	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/03/15 15:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/03/15 15:23	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/03/15 15:23	1
Methyl acetate	10	U	10	2.3	ug/L			04/03/15 15:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/03/15 15:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/03/15 15:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/03/15 15:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/03/15 15:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/03/15 15:23	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/03/15 15:23	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/03/15 15:23	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/03/15 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129					04/03/15 15:23	1
4-Bromofluorobenzene (Surr)	97		66 - 120					04/03/15 15:23	1
Toluene-d8 (Surr)	98		74 - 120					04/03/15 15:23	1
Dibromofluoromethane (Surr)	91		75 - 121					04/03/15 15:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/03/15 15:46	1
Benzene	1.0	U	1.0	0.35	ug/L			04/03/15 15:46	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/03/15 15:46	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/03/15 15:46	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:46	1
2-Butanone (MEK)	10	U *	10	0.53	ug/L			04/03/15 15:46	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/03/15 15:46	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/03/15 15:46	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:46	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/03/15 15:46	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:46	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/03/15 15:46	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/03/15 15:46	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/03/15 15:46	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/03/15 15:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/03/15 15:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/03/15 15:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/03/15 15:46	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:46	1
2-Hexanone	10	U	10	0.48	ug/L			04/03/15 15:46	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/03/15 15:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/03/15 15:46	1
Styrene	1.0	U	1.0	0.45	ug/L			04/03/15 15:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/03/15 15:46	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/03/15 15:46	1
Toluene	1.0	U	1.0	0.23	ug/L			04/03/15 15:46	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/03/15 15:46	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/03/15 15:46	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/03/15 15:46	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/03/15 15:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/03/15 15:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/03/15 15:46	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/03/15 15:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/03/15 15:46	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/03/15 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/03/15 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/03/15 15:46	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/03/15 15:46	1
Methyl acetate	10	U	10	2.3	ug/L			04/03/15 15:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/03/15 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/03/15 15:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/03/15 15:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 15:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/03/15 15:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/03/15 15:46	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/03/15 15:46	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/03/15 15:46	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15019

Lab Sample ID: 240-48746-7

Date Collected: 03/27/15 14:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/03/15 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 129					04/03/15 15:46	1
4-Bromofluorobenzene (Surr)	97		66 - 120					04/03/15 15:46	1
Toluene-d8 (Surr)	101		74 - 120					04/03/15 15:46	1
Dibromofluoromethane (Surr)	95		75 - 121					04/03/15 15:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	0.94	ug/L			04/03/15 16:09	1
Benzene	1.0	U	1.0	0.35	ug/L			04/03/15 16:09	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/03/15 16:09	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/03/15 16:09	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/03/15 16:09	1
2-Butanone (MEK)	10	U *	10	0.53	ug/L			04/03/15 16:09	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/03/15 16:09	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/03/15 16:09	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 16:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/03/15 16:09	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/03/15 16:09	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/03/15 16:09	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/03/15 16:09	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/03/15 16:09	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/03/15 16:09	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/03/15 16:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/03/15 16:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/03/15 16:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/03/15 16:09	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/03/15 16:09	1
2-Hexanone	10	U	10	0.48	ug/L			04/03/15 16:09	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/03/15 16:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/03/15 16:09	1
Styrene	1.0	U	1.0	0.45	ug/L			04/03/15 16:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/03/15 16:09	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/03/15 16:09	1
Toluene	1.0	U	1.0	0.23	ug/L			04/03/15 16:09	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/03/15 16:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/03/15 16:09	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/03/15 16:09	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/03/15 16:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/03/15 16:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/03/15 16:09	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/03/15 16:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/03/15 16:09	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/03/15 16:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/03/15 16:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/03/15 16:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/03/15 16:09	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/03/15 16:09	1
Methyl acetate	10	U	10	2.3	ug/L			04/03/15 16:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/03/15 16:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/03/15 16:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/03/15 16:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 16:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/03/15 16:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/03/15 16:09	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/03/15 16:09	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/03/15 16:09	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Date Collected: 03/27/15 14:47

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/03/15 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129					04/03/15 16:09	1
4-Bromofluorobenzene (Surr)	98		66 - 120					04/03/15 16:09	1
Toluene-d8 (Surr)	98		74 - 120					04/03/15 16:09	1
Dibromofluoromethane (Surr)	94		75 - 121					04/03/15 16:09	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9	J	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 17:45	1
Barium	47	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 17:45	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 17:45	1
Cadmium	0.19	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 17:45	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 17:45	1
Chromium	0.72	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 17:45	1
Iron	1100	B	100	13	ug/L		03/30/15 10:32	03/31/15 17:45	1
Manganese	760	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 17:45	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 17:45	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 17:45	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 17:45	1
Vanadium	3.7	J	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 17:45	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 17:45	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Date Collected: 03/27/15 12:16

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 17:53	1
Barium	20	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 17:53	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 17:53	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 17:53	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 17:53	1
Chromium	5.0	U	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 17:53	1
Iron	200	B	100	13	ug/L		03/30/15 10:32	03/31/15 17:53	1
Manganese	100	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 17:53	1
Nickel	1.4	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 17:53	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 17:53	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 17:53	1
Vanadium	6.2		4.0	2.4	ug/L		03/30/15 10:32	03/31/15 17:53	1
Zinc	16	J	20	9.6	ug/L		03/30/15 10:32	03/31/15 17:53	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:01	1
Barium	36	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:01	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:01	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:01	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:01	1
Chromium	1.3	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:01	1
Iron	27	J B	100	13	ug/L		03/30/15 10:32	03/31/15 18:01	1
Manganese	2.2	J B	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:01	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:01	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:01	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:01	1
Vanadium	3.1	J	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:01	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 18:01	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15019

Lab Sample ID: 240-48746-7

Date Collected: 03/27/15 14:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:17	1
Barium	230	B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:17	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:17	1
Cadmium	0.39	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:17	1
Cobalt	8.8		7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:17	1
Chromium	1.8	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:17	1
Iron	2100	B	100	13	ug/L		03/30/15 10:32	03/31/15 18:17	1
Manganese	1500	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:17	1
Nickel	6.7	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:17	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:17	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:17	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:17	1
Zinc	27		20	9.6	ug/L		03/30/15 10:32	03/31/15 18:17	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Date Collected: 03/27/15 14:47

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:25	1
Barium	220	B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:25	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:25	1
Cadmium	0.50	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:25	1
Cobalt	8.6		7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:25	1
Chromium	2.0	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:25	1
Iron	2100	B	100	13	ug/L		03/30/15 10:32	03/31/15 18:25	1
Manganese	1500	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:25	1
Nickel	6.5	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:25	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:25	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:25	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:25	1
Zinc	26		20	9.6	ug/L		03/30/15 10:32	03/31/15 18:25	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15013

Date Collected: 03/27/15 09:06

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 16:45	1
Barium	200	B	100	1.0	ug/L		03/30/15 10:32	03/31/15 16:45	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 16:45	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 16:45	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 16:45	1
Chromium	1.0	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 16:45	1
Iron	200	B	100	13	ug/L		03/30/15 10:32	03/31/15 16:45	1
Manganese	41	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 16:45	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 16:45	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 16:45	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 16:45	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 16:45	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 16:45	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15014

Date Collected: 03/27/15 10:26

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 17:41	1
Barium	10	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 17:41	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 17:41	1
Cadmium	0.50	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 17:41	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 17:41	1
Chromium	1.5	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 17:41	1
Iron	100	U	100	13	ug/L		03/30/15 10:32	03/31/15 17:41	1
Manganese	36	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 17:41	1
Nickel	4.0	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 17:41	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 17:41	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 17:41	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 17:41	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 17:41	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15016

Lab Sample ID: 240-48746-4

Date Collected: 03/27/15 11:41

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 17:49	1
Barium	47	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 17:49	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 17:49	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 17:49	1
Cobalt	0.61	J	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 17:49	1
Chromium	1.6	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 17:49	1
Iron	990	B	100	13	ug/L		03/30/15 10:32	03/31/15 17:49	1
Manganese	870	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 17:49	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 17:49	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 17:49	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 17:49	1
Vanadium	2.7	J	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 17:49	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 17:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Date Collected: 03/27/15 12:16

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 17:57	1
Barium	21	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 17:57	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 17:57	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 17:57	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 17:57	1
Chromium	5.0	U	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 17:57	1
Iron	100	U	100	13	ug/L		03/30/15 10:32	03/31/15 17:57	1
Manganese	18	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 17:57	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 17:57	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 17:57	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 17:57	1
Vanadium	4.0		4.0	2.4	ug/L		03/30/15 10:32	03/31/15 17:57	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 17:57	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:13	1
Barium	36	J B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:13	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:13	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:13	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:13	1
Chromium	1.0	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:13	1
Iron	100	U	100	13	ug/L		03/30/15 10:32	03/31/15 18:13	1
Manganese	15	U	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:13	1
Nickel	0.80	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:13	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:13	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:13	1
Vanadium	5.5		4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:13	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 18:13	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15019

Lab Sample ID: 240-48746-7

Date Collected: 03/27/15 14:46

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:21	1
Barium	220	B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:21	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:21	1
Cadmium	0.33	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:21	1
Cobalt	9.3		7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:21	1
Chromium	1.8	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:21	1
Iron	1900	B	100	13	ug/L		03/30/15 10:32	03/31/15 18:21	1
Manganese	1500	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:21	1
Nickel	6.6	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:21	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:21	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:21	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:21	1
Zinc	24		20	9.6	ug/L		03/30/15 10:32	03/31/15 18:21	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Date Collected: 03/27/15 14:47

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		5.0	2.9	ug/L		03/30/15 10:32	03/31/15 18:29	1
Barium	220	B	100	1.0	ug/L		03/30/15 10:32	03/31/15 18:29	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 18:29	1
Cadmium	0.40	J	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 18:29	1
Cobalt	8.8		7.0	0.56	ug/L		03/30/15 10:32	03/31/15 18:29	1
Chromium	1.3	J B	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 18:29	1
Iron	1700	B	100	13	ug/L		03/30/15 10:32	03/31/15 18:29	1
Manganese	1500	B	15	0.46	ug/L		03/30/15 10:32	03/31/15 18:29	1
Nickel	7.0	J	20	0.76	ug/L		03/30/15 10:32	03/31/15 18:29	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 18:29	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 18:29	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 18:29	1
Zinc	24		20	9.6	ug/L		03/30/15 10:32	03/31/15 18:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18	J	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:12	1
Antimony	0.55	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:12	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:12	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:12	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:12	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15017

Date Collected: 03/27/15 12:16

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	160		50	9.0	ug/L		03/30/15 10:32	03/31/15 13:27	1
Antimony	0.49	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:27	1
Copper	3.0		2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:27	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:27	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15018

Date Collected: 03/27/15 13:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:35	1
Antimony	0.23	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:35	1
Copper	0.81	J	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:35	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:35	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	36	J	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:42	1
Antimony	0.62	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:42	1
Copper	3.1		2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:42	1
Thallium	0.25	J	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:42	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:42	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	37	J	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:50	1
Antimony	0.63	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:50	1
Copper	3.1		2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:50	1
Thallium	0.23	J	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:50	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:50	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15013

Date Collected: 03/27/15 09:06

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 12:23	1
Antimony	0.57	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 12:23	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 12:23	1
Thallium	0.21	J	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 12:23	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 12:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15014

Date Collected: 03/27/15 10:26

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:08	1
Antimony	0.73	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:08	1
Copper	0.89	J	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:08	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:08	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:15	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:15	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:15	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:15	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:15	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15017

Date Collected: 03/27/15 12:16

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:31	1
Antimony	0.24	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:31	1
Copper	2.7		2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:31	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:31	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:31	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15018

Date Collected: 03/27/15 13:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:38	1
Antimony	0.16	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:38	1
Copper	1.1	J	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:38	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:38	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:46	1
Antimony	0.55	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:46	1
Copper	1.9	J	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:46	1
Thallium	0.23	J	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:46	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:46	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 13:54	1
Antimony	0.55	J	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 13:54	1
Copper	2.5		2.0	0.75	ug/L		03/30/15 10:32	03/31/15 13:54	1
Thallium	0.22	J	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 13:54	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 13:54	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 12:10	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Date Collected: 03/27/15 12:16

Matrix: Water

Date Received: 03/28/15 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:16	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032715-SSH-15018

Date Collected: 03/27/15 13:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:20	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:24	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA)

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15013

Date Collected: 03/27/15 09:06

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 11:47	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15014

Date Collected: 03/27/15 10:26

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:08	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:12	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15017

Date Collected: 03/27/15 12:16

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:14	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15018

Date Collected: 03/27/15 13:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:22	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:25	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	03/31/15 07:35	03/31/15 12:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15013

Date Collected: 03/27/15 09:06

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	-		04/02/15 08:52	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15014

Date Collected: 03/27/15 10:26

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:52	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15016

Date Collected: 03/27/15 11:41

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:52	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15017

Date Collected: 03/27/15 12:16

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:52	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15018

Date Collected: 03/27/15 13:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:54	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15019

Date Collected: 03/27/15 14:46

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:54	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

General Chemistry

Client Sample ID: GW-12636-032715-SSH-15020

Date Collected: 03/27/15 14:47

Date Received: 03/28/15 09:50

Lab Sample ID: 240-48746-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	—		04/02/15 08:54	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

GC/MS VOA

Analysis Batch: 174562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Total/NA	Water	8260B	
240-48746-1 MS	GW-12636-032715-SSH-15013	Total/NA	Water	8260B	
240-48746-1 MSD	GW-12636-032715-SSH-15013	Total/NA	Water	8260B	
LCS 240-174562/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-174562/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 174825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-2	GW-12636-032715-SSH-15014	Total/NA	Water	8260B	
240-48746-3	TB-12636-032715-SSH-15015	Total/NA	Water	8260B	
240-48746-4	GW-12636-032715-SSH-15016	Total/NA	Water	8260B	
LCS 240-174825/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-174825/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 174976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-5	GW-12636-032715-SSH-15017	Total/NA	Water	8260B	
240-48746-5 MS	GW-12636-032715-SSH-15017	Total/NA	Water	8260B	
240-48746-5 MSD	GW-12636-032715-SSH-15017	Total/NA	Water	8260B	
240-48746-6	GW-12636-032715-SSH-15018	Total/NA	Water	8260B	
240-48746-7	GW-12636-032715-SSH-15019	Total/NA	Water	8260B	
240-48746-8	GW-12636-032715-SSH-15020	Total/NA	Water	8260B	
LCS 240-174976/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-174976/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 174273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Dissolved	Water	3005A	
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	3005A	
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	3005A	
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	3005A	
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	3005A	
240-48746-2	GW-12636-032715-SSH-15014	Dissolved	Water	3005A	
240-48746-4	GW-12636-032715-SSH-15016	Dissolved	Water	3005A	
240-48746-4	GW-12636-032715-SSH-15016	Total Recoverable	Water	3005A	
240-48746-5	GW-12636-032715-SSH-15017	Dissolved	Water	3005A	
240-48746-5	GW-12636-032715-SSH-15017	Total Recoverable	Water	3005A	
240-48746-6	GW-12636-032715-SSH-15018	Dissolved	Water	3005A	
240-48746-6	GW-12636-032715-SSH-15018	Total Recoverable	Water	3005A	
240-48746-7	GW-12636-032715-SSH-15019	Dissolved	Water	3005A	
240-48746-7	GW-12636-032715-SSH-15019	Total Recoverable	Water	3005A	
240-48746-8	GW-12636-032715-SSH-15020	Dissolved	Water	3005A	
240-48746-8	GW-12636-032715-SSH-15020	Total Recoverable	Water	3005A	
LCS 240-174273/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-174273/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-174273/1-A	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Metals (Continued)

Prep Batch: 174281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	
240-48746-2	GW-12636-032715-SSH-15014	Dissolved	Water	7470A	
240-48746-4	GW-12636-032715-SSH-15016	Dissolved	Water	7470A	
240-48746-4	GW-12636-032715-SSH-15016	Total/NA	Water	7470A	
240-48746-5	GW-12636-032715-SSH-15017	Dissolved	Water	7470A	
240-48746-5	GW-12636-032715-SSH-15017	Total/NA	Water	7470A	
240-48746-6	GW-12636-032715-SSH-15018	Dissolved	Water	7470A	
240-48746-6	GW-12636-032715-SSH-15018	Total/NA	Water	7470A	
240-48746-7	GW-12636-032715-SSH-15019	Dissolved	Water	7470A	
240-48746-7	GW-12636-032715-SSH-15019	Total/NA	Water	7470A	
240-48746-8	GW-12636-032715-SSH-15020	Dissolved	Water	7470A	
240-48746-8	GW-12636-032715-SSH-15020	Total/NA	Water	7470A	
LCS 240-174281/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-174281/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 174569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Dissolved	Water	6010B	174273
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	6010B	174273
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	6010B	174273
240-48746-2	GW-12636-032715-SSH-15014	Dissolved	Water	6010B	174273
240-48746-4	GW-12636-032715-SSH-15016	Dissolved	Water	6010B	174273
240-48746-4	GW-12636-032715-SSH-15016	Total Recoverable	Water	6010B	174273
240-48746-5	GW-12636-032715-SSH-15017	Dissolved	Water	6010B	174273
240-48746-5	GW-12636-032715-SSH-15017	Total Recoverable	Water	6010B	174273
240-48746-6	GW-12636-032715-SSH-15018	Dissolved	Water	6010B	174273
240-48746-6	GW-12636-032715-SSH-15018	Total Recoverable	Water	6010B	174273
240-48746-7	GW-12636-032715-SSH-15019	Dissolved	Water	6010B	174273
240-48746-7	GW-12636-032715-SSH-15019	Total Recoverable	Water	6010B	174273
240-48746-8	GW-12636-032715-SSH-15020	Dissolved	Water	6010B	174273
240-48746-8	GW-12636-032715-SSH-15020	Total Recoverable	Water	6010B	174273
LCS 240-174273/2-A	Lab Control Sample	Total Recoverable	Water	6010B	174273
MB 240-174273/1-A	Method Blank	Total Recoverable	Water	6010B	174273

Analysis Batch: 174588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	174281
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	174281
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	7470A	174281
240-48746-2	GW-12636-032715-SSH-15014	Dissolved	Water	7470A	174281
240-48746-4	GW-12636-032715-SSH-15016	Dissolved	Water	7470A	174281
240-48746-4	GW-12636-032715-SSH-15016	Total/NA	Water	7470A	174281
240-48746-5	GW-12636-032715-SSH-15017	Dissolved	Water	7470A	174281
240-48746-5	GW-12636-032715-SSH-15017	Total/NA	Water	7470A	174281
240-48746-6	GW-12636-032715-SSH-15018	Dissolved	Water	7470A	174281
240-48746-6	GW-12636-032715-SSH-15018	Total/NA	Water	7470A	174281
240-48746-7	GW-12636-032715-SSH-15019	Dissolved	Water	7470A	174281
240-48746-7	GW-12636-032715-SSH-15019	Total/NA	Water	7470A	174281
240-48746-8	GW-12636-032715-SSH-15020	Dissolved	Water	7470A	174281

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Metals (Continued)

Analysis Batch: 174588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-8	GW-12636-032715-SSH-15020	Total/NA	Water	7470A	174281
LCS 240-174281/2-A	Lab Control Sample	Total/NA	Water	7470A	174281
MB 240-174281/1-A	Method Blank	Total/NA	Water	7470A	174281

Analysis Batch: 174605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Dissolved	Water	6020	174273
240-48746-1 MS	GW-12636-032715-SSH-15013	Dissolved	Water	6020	174273
240-48746-1 MSD	GW-12636-032715-SSH-15013	Dissolved	Water	6020	174273
240-48746-2	GW-12636-032715-SSH-15014	Dissolved	Water	6020	174273
240-48746-4	GW-12636-032715-SSH-15016	Dissolved	Water	6020	174273
240-48746-4	GW-12636-032715-SSH-15016	Total Recoverable	Water	6020	174273
240-48746-5	GW-12636-032715-SSH-15017	Dissolved	Water	6020	174273
240-48746-5	GW-12636-032715-SSH-15017	Total Recoverable	Water	6020	174273
240-48746-6	GW-12636-032715-SSH-15018	Dissolved	Water	6020	174273
240-48746-6	GW-12636-032715-SSH-15018	Total Recoverable	Water	6020	174273
240-48746-7	GW-12636-032715-SSH-15019	Dissolved	Water	6020	174273
240-48746-7	GW-12636-032715-SSH-15019	Total Recoverable	Water	6020	174273
240-48746-8	GW-12636-032715-SSH-15020	Dissolved	Water	6020	174273
240-48746-8	GW-12636-032715-SSH-15020	Total Recoverable	Water	6020	174273
LCS 240-174273/3-A	Lab Control Sample	Total Recoverable	Water	6020	174273
MB 240-174273/1-A	Method Blank	Total Recoverable	Water	6020	174273

General Chemistry

Analysis Batch: 174792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-48746-1	GW-12636-032715-SSH-15013	Total/NA	Water	9012A	
240-48746-2	GW-12636-032715-SSH-15014	Total/NA	Water	9012A	
240-48746-4	GW-12636-032715-SSH-15016	Total/NA	Water	9012A	
240-48746-5	GW-12636-032715-SSH-15017	Total/NA	Water	9012A	
240-48746-6	GW-12636-032715-SSH-15018	Total/NA	Water	9012A	
240-48746-7	GW-12636-032715-SSH-15019	Total/NA	Water	9012A	
240-48746-8	GW-12636-032715-SSH-15020	Total/NA	Water	9012A	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: MB 240-174562/6

Matrix: Water

Analysis Batch: 174562

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			04/01/15 00:44	1
Benzene	1.0	U	1.0	0.35	ug/L			04/01/15 00:44	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/01/15 00:44	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/01/15 00:44	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/01/15 00:44	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/01/15 00:44	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/01/15 00:44	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/01/15 00:44	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/01/15 00:44	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/01/15 00:44	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/01/15 00:44	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/01/15 00:44	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/01/15 00:44	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/01/15 00:44	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/01/15 00:44	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/01/15 00:44	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/01/15 00:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/01/15 00:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/01/15 00:44	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/01/15 00:44	1
2-Hexanone	10	U	10	0.48	ug/L			04/01/15 00:44	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			04/01/15 00:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/01/15 00:44	1
Styrene	1.0	U	1.0	0.45	ug/L			04/01/15 00:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/01/15 00:44	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/01/15 00:44	1
Toluene	1.0	U	1.0	0.23	ug/L			04/01/15 00:44	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/01/15 00:44	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/01/15 00:44	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/01/15 00:44	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/01/15 00:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/01/15 00:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/01/15 00:44	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/01/15 00:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/01/15 00:44	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/01/15 00:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/01/15 00:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/01/15 00:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/01/15 00:44	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/01/15 00:44	1
Methyl acetate	10	U	10	2.3	ug/L			04/01/15 00:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/01/15 00:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/01/15 00:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/01/15 00:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/01/15 00:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/01/15 00:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/01/15 00:44	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/01/15 00:44	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: MB 240-174562/6

Matrix: Water

Analysis Batch: 174562

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/01/15 00:44	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/01/15 00:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					04/01/15 00:44	1
4-Bromofluorobenzene (Surr)	87		66 - 120					04/01/15 00:44	1
Toluene-d8 (Surr)	91		74 - 120					04/01/15 00:44	1
Dibromofluoromethane (Surr)	94		75 - 121					04/01/15 00:44	1

Lab Sample ID: LCS 240-174562/4

Matrix: Water

Analysis Batch: 174562

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	22.7		ug/L		114	43 - 136
Benzene	10.0	10.8		ug/L		108	80 - 120
Bromodichloromethane	10.0	10.2		ug/L		102	72 - 121
Bromoform	10.0	8.66		ug/L		87	40 - 131
Bromomethane	10.0	8.76		ug/L		88	11 - 185
2-Butanone (MEK)	20.0	21.4		ug/L		107	60 - 126
Carbon disulfide	10.0	11.8		ug/L		118	62 - 142
Carbon tetrachloride	10.0	10.6		ug/L		106	66 - 128
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
Chloroethane	10.0	9.12		ug/L		91	25 - 153
Chloroform	10.0	10.4		ug/L		104	79 - 120
Chloromethane	10.0	10.9		ug/L		109	44 - 126
1,1-Dichloroethane	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	71 - 127
1,1-Dichloroethene	10.0	11.0		ug/L		110	78 - 131
1,2-Dichloropropane	10.0	10.9		ug/L		109	80 - 120
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	76 - 120
cis-1,3-Dichloropropene	10.0	10.7		ug/L		107	61 - 120
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	58 - 120
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
2-Hexanone	20.0	23.8		ug/L		119	55 - 133
Methylene Chloride	10.0	11.3		ug/L		113	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	21.5		ug/L		108	63 - 128
Styrene	10.0	9.88		ug/L		99	79 - 120
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	68 - 120
Tetrachloroethene	10.0	9.92		ug/L		99	79 - 120
Toluene	10.0	10.7		ug/L		107	80 - 120
Trichloroethene	10.0	10.2		ug/L		102	76 - 120
1,3,5-Trimethylbenzene	10.0	10.8		ug/L		108	72 - 120
Vinyl chloride	10.0	10.0		ug/L		100	53 - 127
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	74 - 120
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 120
Cyclohexane	10.0	11.6		ug/L		116	54 - 121

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: LCS 240-174562/4

Matrix: Water

Analysis Batch: 174562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	8.64		ug/L		86	42 - 136
1,2-Dibromoethane	10.0	10.1		ug/L		101	79 - 120
Dichlorodifluoromethane	10.0	9.35		ug/L		94	19 - 129
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 120
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	80 - 120
Isopropylbenzene	10.0	10.3		ug/L		103	75 - 120
Methyl acetate	50.0	54.8		ug/L		110	58 - 131
Methyl tert-butyl ether	10.0	9.68		ug/L		97	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.4		ug/L		104	74 - 151
1,2,4-Trichlorobenzene	10.0	9.41		ug/L		94	48 - 135
1,2-Dichlorobenzene	10.0	9.81		ug/L		98	80 - 120
1,3-Dichlorobenzene	10.0	9.63		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.67		ug/L		97	80 - 120
Trichlorofluoromethane	10.0	9.17		ug/L		92	49 - 157
Dibromochloromethane	10.0	9.63		ug/L		96	64 - 120
Methylcyclohexane	10.0	11.2		ug/L		112	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
4-Bromofluorobenzene (Surr)	97		66 - 120
Toluene-d8 (Surr)	97		74 - 120
Dibromofluoromethane (Surr)	89		75 - 121

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174562

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	20.4		ug/L		102	33 - 145
Benzene	1.0	U	10.0	10.3		ug/L		103	72 - 121
Bromodichloromethane	1.0	U	10.0	9.55		ug/L		96	67 - 120
Bromoform	1.0	U	10.0	8.23		ug/L		82	32 - 128
Bromomethane	1.0	U	10.0	8.90		ug/L		89	10 - 186
2-Butanone (MEK)	10	U	20.0	18.9		ug/L		94	54 - 129
Carbon disulfide	5.0	U	10.0	11.1		ug/L		111	57 - 147
Carbon tetrachloride	1.0	U	10.0	9.54		ug/L		95	59 - 129
Chlorobenzene	1.0	U	10.0	9.27		ug/L		93	80 - 120
Chloroethane	1.0	U	10.0	9.18		ug/L		92	21 - 165
Chloroform	1.0	U	10.0	10.2		ug/L		102	76 - 120
Chloromethane	1.0	U	10.0	10.9		ug/L		109	33 - 132
1,1-Dichloroethane	1.0	U	10.0	10.6		ug/L		106	79 - 120
1,2-Dichloroethane	1.0	U	10.0	10.3		ug/L		103	68 - 129
1,1-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	74 - 135
1,2-Dichloropropane	1.0	U	10.0	10.1		ug/L		101	78 - 120
1,2,4-Trimethylbenzene	1.0	U	10.0	8.94		ug/L		89	67 - 124
cis-1,3-Dichloropropene	1.0	U	10.0	8.65		ug/L		87	51 - 120
trans-1,3-Dichloropropene	1.0	U	10.0	9.26		ug/L		93	46 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174562

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	1.0	U	10.0	9.21		ug/L		92	75 - 120
2-Hexanone	10	U	20.0	20.5		ug/L		103	47 - 139
Methylene Chloride	5.0	U	10.0	11.0		ug/L		110	63 - 128
4-Methyl-2-pentanone (MIBK)	10	U	20.0	18.5		ug/L		92	56 - 131
Styrene	1.0	U	10.0	9.19		ug/L		92	71 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	10.1		ug/L		101	63 - 122
Tetrachloroethene	1.0	U	10.0	8.54		ug/L		85	70 - 120
Toluene	1.0	U	10.0	9.81		ug/L		98	78 - 120
Trichloroethene	1.0	U	10.0	9.17		ug/L		92	66 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	8.91		ug/L		89	63 - 121
Vinyl chloride	1.0	U	10.0	9.93		ug/L		99	49 - 130
Xylenes, Total	2.0	U	20.0	18.5		ug/L		92	76 - 120
1,1,1-Trichloroethane	1.0	U	10.0	9.37		ug/L		94	68 - 121
1,1,2-Trichloroethane	1.0	U	10.0	9.86		ug/L		99	75 - 120
Cyclohexane	1.0	U	10.0	9.42		ug/L		94	49 - 123
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.13		ug/L		81	32 - 139
1,2-Dibromoethane	1.0	U	10.0	9.62		ug/L		96	74 - 120
Dichlorodifluoromethane	1.0	U	10.0	8.81		ug/L		88	17 - 128
cis-1,2-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	70 - 120
trans-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	80 - 120
Isopropylbenzene	1.0	U	10.0	8.54		ug/L		85	68 - 120
Methyl acetate	10	U	50.0	50.7		ug/L		101	47 - 130
Methyl tert-butyl ether	1.0	U	10.0	8.76		ug/L		88	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.00		ug/L		90	70 - 152
1,2,4-Trichlorobenzene	1.0	U	10.0	7.54		ug/L		75	38 - 138
1,2-Dichlorobenzene	1.0	U	10.0	8.90		ug/L		89	75 - 120
1,3-Dichlorobenzene	1.0	U	10.0	8.56		ug/L		86	73 - 120
1,4-Dichlorobenzene	1.0	U	10.0	8.62		ug/L		86	75 - 120
Trichlorofluoromethane	1.0	U	10.0	8.81		ug/L		88	46 - 157
Dibromochloromethane	1.0	U	10.0	9.29		ug/L		93	56 - 120
Methylcyclohexane	1.0	U	10.0	8.52		ug/L		85	49 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		63 - 129
4-Bromofluorobenzene (Surr)	100		66 - 120
Toluene-d8 (Surr)	97		74 - 120
Dibromofluoromethane (Surr)	94		75 - 121

Lab Sample ID: 240-48746-1 MSD

Matrix: Water

Analysis Batch: 174562

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	21.6		ug/L		108	33 - 145	6	30
Benzene	1.0	U	10.0	10.6		ug/L		106	72 - 121	3	30
Bromodichloromethane	1.0	U	10.0	9.94		ug/L		99	67 - 120	4	30
Bromoform	1.0	U	10.0	8.81		ug/L		88	32 - 128	7	30

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-1 MSD

Client Sample ID: GW-12636-032715-SSH-15013

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 174562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	1.0	U	10.0	8.73		ug/L		87	10 - 186	2	30
2-Butanone (MEK)	10	U	20.0	20.8		ug/L		104	54 - 129	10	30
Carbon disulfide	5.0	U	10.0	11.3		ug/L		113	57 - 147	1	30
Carbon tetrachloride	1.0	U	10.0	9.77		ug/L		98	59 - 129	2	30
Chlorobenzene	1.0	U	10.0	9.71		ug/L		97	80 - 120	5	30
Chloroethane	1.0	U	10.0	8.98		ug/L		90	21 - 165	2	30
Chloroform	1.0	U	10.0	10.3		ug/L		103	76 - 120	1	30
Chloromethane	1.0	U	10.0	10.9		ug/L		109	33 - 132	1	30
1,1-Dichloroethane	1.0	U	10.0	10.7		ug/L		107	79 - 120	1	30
1,2-Dichloroethane	1.0	U	10.0	10.4		ug/L		104	68 - 129	1	30
1,1-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	74 - 135	1	30
1,2-Dichloropropane	1.0	U	10.0	10.8		ug/L		108	78 - 120	7	30
1,2,4-Trimethylbenzene	1.0	U	10.0	9.35		ug/L		94	67 - 124	5	30
cis-1,3-Dichloropropene	1.0	U	10.0	9.46		ug/L		95	51 - 120	9	30
trans-1,3-Dichloropropene	1.0	U	10.0	10.2		ug/L		102	46 - 120	9	30
Ethylbenzene	1.0	U	10.0	9.68		ug/L		97	75 - 120	5	30
2-Hexanone	10	U	20.0	23.0		ug/L		115	47 - 139	11	30
Methylene Chloride	5.0	U	10.0	10.9		ug/L		109	63 - 128	1	30
4-Methyl-2-pentanone (MIBK)	10	U	20.0	20.9		ug/L		105	56 - 131	12	30
Styrene	1.0	U	10.0	9.54		ug/L		95	71 - 120	4	30
1,1,2,2-Tetrachloroethane	1.0	U	10.0	10.8		ug/L		108	63 - 122	7	30
Tetrachloroethene	1.0	U	10.0	8.97		ug/L		90	70 - 120	5	30
Toluene	1.0	U	10.0	10.4		ug/L		104	78 - 120	6	30
Trichloroethene	1.0	U	10.0	9.54		ug/L		95	66 - 120	4	30
1,3,5-Trimethylbenzene	1.0	U	10.0	9.39		ug/L		94	63 - 121	5	30
Vinyl chloride	1.0	U	10.0	9.99		ug/L		100	49 - 130	1	30
Xylenes, Total	2.0	U	20.0	19.2		ug/L		96	76 - 120	4	30
1,1,1-Trichloroethane	1.0	U	10.0	9.38		ug/L		94	68 - 121	0	30
1,1,2-Trichloroethane	1.0	U	10.0	10.5		ug/L		105	75 - 120	6	30
Cyclohexane	1.0	U	10.0	9.59		ug/L		96	49 - 123	2	30
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	8.89		ug/L		89	32 - 139	9	30
1,2-Dibromoethane	1.0	U	10.0	10.1		ug/L		101	74 - 120	5	30
Dichlorodifluoromethane	1.0	U	10.0	8.88		ug/L		89	17 - 128	1	30
cis-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	70 - 120	2	30
trans-1,2-Dichloroethene	1.0	U	10.0	10.8		ug/L		108	80 - 120	2	30
Isopropylbenzene	1.0	U	10.0	9.06		ug/L		91	68 - 120	6	30
Methyl acetate	10	U	50.0	55.8		ug/L		112	47 - 130	10	30
Methyl tert-butyl ether	1.0	U	10.0	9.23		ug/L		92	46 - 144	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.99		ug/L		90	70 - 152	0	30
1,2,4-Trichlorobenzene	1.0	U	10.0	8.04		ug/L		80	38 - 138	7	30
1,2-Dichlorobenzene	1.0	U	10.0	9.22		ug/L		92	75 - 120	3	30
1,3-Dichlorobenzene	1.0	U	10.0	8.89		ug/L		89	73 - 120	4	30
1,4-Dichlorobenzene	1.0	U	10.0	8.91		ug/L		89	75 - 120	3	30
Trichlorofluoromethane	1.0	U	10.0	8.84		ug/L		88	46 - 157	0	30
Dibromochloromethane	1.0	U	10.0	9.67		ug/L		97	56 - 120	4	30
Methylcyclohexane	1.0	U	10.0	8.61		ug/L		86	49 - 127	1	30

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-1 MSD

Matrix: Water

Analysis Batch: 174562

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	99		66 - 120
Toluene-d8 (Surr)	98		74 - 120
Dibromofluoromethane (Surr)	91		75 - 121

Lab Sample ID: MB 240-174825/6

Matrix: Water

Analysis Batch: 174825

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			04/02/15 13:50	1
Benzene	1.0	U	1.0	0.35	ug/L			04/02/15 13:50	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/02/15 13:50	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/02/15 13:50	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/02/15 13:50	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			04/02/15 13:50	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/02/15 13:50	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/02/15 13:50	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 13:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/02/15 13:50	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/02/15 13:50	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/02/15 13:50	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/02/15 13:50	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/02/15 13:50	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/02/15 13:50	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/02/15 13:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/02/15 13:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/02/15 13:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/02/15 13:50	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/02/15 13:50	1
2-Hexanone	10	U	10	0.48	ug/L			04/02/15 13:50	1
Methylene Chloride	0.744	J	5.0	0.33	ug/L			04/02/15 13:50	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/02/15 13:50	1
Styrene	1.0	U	1.0	0.45	ug/L			04/02/15 13:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/02/15 13:50	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/02/15 13:50	1
Toluene	1.0	U	1.0	0.23	ug/L			04/02/15 13:50	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/02/15 13:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/02/15 13:50	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/02/15 13:50	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/02/15 13:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/02/15 13:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/02/15 13:50	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/02/15 13:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/02/15 13:50	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/02/15 13:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/02/15 13:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/02/15 13:50	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: MB 240-174825/6

Matrix: Water

Analysis Batch: 174825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/02/15 13:50	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/02/15 13:50	1
Methyl acetate	10	U	10	2.3	ug/L			04/02/15 13:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/02/15 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/02/15 13:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/02/15 13:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/02/15 13:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/02/15 13:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/02/15 13:50	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/02/15 13:50	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/02/15 13:50	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/02/15 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		04/02/15 13:50	1
4-Bromofluorobenzene (Surr)	97		66 - 120		04/02/15 13:50	1
Toluene-d8 (Surr)	97		74 - 120		04/02/15 13:50	1
Dibromofluoromethane (Surr)	94		75 - 121		04/02/15 13:50	1

Lab Sample ID: LCS 240-174825/4

Matrix: Water

Analysis Batch: 174825

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	20.5		ug/L		103	43 - 136
Benzene	10.0	9.06		ug/L		91	80 - 120
Bromodichloromethane	10.0	9.07		ug/L		91	72 - 121
Bromoform	10.0	10.1		ug/L		101	40 - 131
Bromomethane	10.0	8.24		ug/L		82	11 - 185
2-Butanone (MEK)	20.0	23.5		ug/L		117	60 - 126
Carbon disulfide	10.0	8.35		ug/L		83	62 - 142
Carbon tetrachloride	10.0	8.56		ug/L		86	66 - 128
Chlorobenzene	10.0	9.56		ug/L		96	80 - 120
Chloroethane	10.0	8.36		ug/L		84	25 - 153
Chloroform	10.0	9.03		ug/L		90	79 - 120
Chloromethane	10.0	8.67		ug/L		87	44 - 126
1,1-Dichloroethane	10.0	9.30		ug/L		93	80 - 120
1,2-Dichloroethane	10.0	9.86		ug/L		99	71 - 127
1,1-Dichloroethene	10.0	8.84		ug/L		88	78 - 131
1,2-Dichloropropane	10.0	9.63		ug/L		96	80 - 120
1,2,4-Trimethylbenzene	10.0	10.4		ug/L		104	76 - 120
cis-1,3-Dichloropropene	10.0	9.80		ug/L		98	61 - 120
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	58 - 120
Ethylbenzene	10.0	9.92		ug/L		99	80 - 120
2-Hexanone	20.0	24.4		ug/L		122	55 - 133
Methylene Chloride	10.0	9.23		ug/L		92	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	24.1		ug/L		121	63 - 128
Styrene	10.0	9.36		ug/L		94	79 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: LCS 240-174825/4

Matrix: Water

Analysis Batch: 174825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	10.0	12.0		ug/L		120	68 - 120
Tetrachloroethene	10.0	10.2		ug/L		102	79 - 120
Toluene	10.0	9.78		ug/L		98	80 - 120
Trichloroethene	10.0	9.08		ug/L		91	76 - 120
1,3,5-Trimethylbenzene	10.0	10.6		ug/L		106	72 - 120
Vinyl chloride	10.0	7.56		ug/L		76	53 - 127
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120
1,1,1-Trichloroethane	10.0	8.07		ug/L		81	74 - 120
1,1,2-Trichloroethane	10.0	11.0		ug/L		110	80 - 120
Cyclohexane	10.0	9.28		ug/L		93	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	11.7		ug/L		117	42 - 136
1,2-Dibromoethane	10.0	11.3		ug/L		113	79 - 120
Dichlorodifluoromethane	10.0	6.08		ug/L		61	19 - 129
cis-1,2-Dichloroethene	10.0	9.29		ug/L		93	80 - 120
trans-1,2-Dichloroethene	10.0	9.11		ug/L		91	80 - 120
Isopropylbenzene	10.0	10.1		ug/L		101	75 - 120
Methyl acetate	50.0	62.6		ug/L		125	58 - 131
Methyl tert-butyl ether	10.0	9.81		ug/L		98	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.30		ug/L		83	74 - 151
1,2,4-Trichlorobenzene	10.0	11.2		ug/L		112	48 - 135
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
Trichlorofluoromethane	10.0	8.19		ug/L		82	49 - 157
Dibromochloromethane	10.0	10.6		ug/L		106	64 - 120
Methylcyclohexane	10.0	10.1		ug/L		101	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
4-Bromofluorobenzene (Surr)	106		66 - 120
Toluene-d8 (Surr)	104		74 - 120
Dibromofluoromethane (Surr)	94		75 - 121

Lab Sample ID: MB 240-174976/6

Matrix: Water

Analysis Batch: 174976

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			04/03/15 12:21	1
Benzene	1.0	U	1.0	0.35	ug/L			04/03/15 12:21	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			04/03/15 12:21	1
Bromoform	1.0	U	1.0	0.56	ug/L			04/03/15 12:21	1
Bromomethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:21	1
2-Butanone (MEK)	1.03	J	10	0.53	ug/L			04/03/15 12:21	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			04/03/15 12:21	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			04/03/15 12:21	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:21	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: MB 240-174976/6

Matrix: Water

Analysis Batch: 174976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:21	1
Chloroform	1.0	U	1.0	0.25	ug/L			04/03/15 12:21	1
Chloromethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:21	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			04/03/15 12:21	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			04/03/15 12:21	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			04/03/15 12:21	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			04/03/15 12:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			04/03/15 12:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			04/03/15 12:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			04/03/15 12:21	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:21	1
2-Hexanone	10	U	10	0.48	ug/L			04/03/15 12:21	1
Methylene Chloride	0.558	J	5.0	0.33	ug/L			04/03/15 12:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			04/03/15 12:21	1
Styrene	1.0	U	1.0	0.45	ug/L			04/03/15 12:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			04/03/15 12:21	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			04/03/15 12:21	1
Toluene	1.0	U	1.0	0.23	ug/L			04/03/15 12:21	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			04/03/15 12:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			04/03/15 12:21	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			04/03/15 12:21	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			04/03/15 12:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			04/03/15 12:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/03/15 12:21	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			04/03/15 12:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			04/03/15 12:21	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			04/03/15 12:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/03/15 12:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/03/15 12:21	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			04/03/15 12:21	1
Methyl acetate	10	U	10	2.3	ug/L			04/03/15 12:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			04/03/15 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			04/03/15 12:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			04/03/15 12:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			04/03/15 12:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			04/03/15 12:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			04/03/15 12:21	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			04/03/15 12:21	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			04/03/15 12:21	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			04/03/15 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 129		04/03/15 12:21	1
4-Bromofluorobenzene (Surr)	102		66 - 120		04/03/15 12:21	1
Toluene-d8 (Surr)	101		74 - 120		04/03/15 12:21	1
Dibromofluoromethane (Surr)	95		75 - 121		04/03/15 12:21	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: LCS 240-174976/4

Matrix: Water

Analysis Batch: 174976

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	20.4		ug/L		102	43 - 136
Benzene	10.0	10.1		ug/L		101	80 - 120
Bromodichloromethane	10.0	9.70		ug/L		97	72 - 121
Bromoform	10.0	10.8		ug/L		108	40 - 131
Bromomethane	10.0	8.70		ug/L		87	11 - 185
2-Butanone (MEK)	20.0	25.5 *		ug/L		128	60 - 126
Carbon disulfide	10.0	9.38		ug/L		94	62 - 142
Carbon tetrachloride	10.0	9.62		ug/L		96	66 - 128
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	8.89		ug/L		89	25 - 153
Chloroform	10.0	9.69		ug/L		97	79 - 120
Chloromethane	10.0	8.37		ug/L		84	44 - 126
1,1-Dichloroethane	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	71 - 127
1,1-Dichloroethene	10.0	9.98		ug/L		100	78 - 131
1,2-Dichloropropane	10.0	10.7		ug/L		107	80 - 120
1,2,4-Trimethylbenzene	10.0	11.4		ug/L		114	76 - 120
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	61 - 120
trans-1,3-Dichloropropene	10.0	11.8		ug/L		118	58 - 120
Ethylbenzene	10.0	11.4		ug/L		114	80 - 120
2-Hexanone	20.0	25.0		ug/L		125	55 - 133
Methylene Chloride	10.0	9.76		ug/L		98	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	24.2		ug/L		121	63 - 128
Styrene	10.0	10.4		ug/L		104	79 - 120
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	68 - 120
Tetrachloroethene	10.0	11.0		ug/L		110	79 - 120
Toluene	10.0	10.9		ug/L		109	80 - 120
Trichloroethene	10.0	9.98		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	10.0	12.0		ug/L		120	72 - 120
Vinyl chloride	10.0	7.69		ug/L		77	53 - 127
Xylenes, Total	20.0	22.4		ug/L		112	80 - 120
1,1,1-Trichloroethane	10.0	9.09		ug/L		91	74 - 120
1,1,2-Trichloroethane	10.0	11.8		ug/L		118	80 - 120
Cyclohexane	10.0	10.5		ug/L		105	54 - 121
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	42 - 136
1,2-Dibromoethane	10.0	12.0		ug/L		120	79 - 120
Dichlorodifluoromethane	10.0	6.27		ug/L		63	19 - 129
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 120
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 120
Isopropylbenzene	10.0	11.7		ug/L		117	75 - 120
Methyl acetate	50.0	64.4		ug/L		129	58 - 131
Methyl tert-butyl ether	10.0	10.5		ug/L		105	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.24		ug/L		92	74 - 151
1,2,4-Trichlorobenzene	10.0	11.7		ug/L		117	48 - 135
1,2-Dichlorobenzene	10.0	11.3		ug/L		113	80 - 120
1,3-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,4-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: LCS 240-174976/4

Matrix: Water

Analysis Batch: 174976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	10.0	9.05		ug/L		91	49 - 157
Dibromochloromethane	10.0	11.0		ug/L		110	64 - 120
Methylcyclohexane	10.0	11.2		ug/L		112	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
4-Bromofluorobenzene (Surr)	105		66 - 120
Toluene-d8 (Surr)	102		74 - 120
Dibromofluoromethane (Surr)	95		75 - 121

Lab Sample ID: 240-48746-5 MS

Matrix: Water

Analysis Batch: 174976

Client Sample ID: GW-12636-032715-SSH-15017

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	17.1		ug/L		86	33 - 145
Benzene	1.0	U	10.0	9.51		ug/L		95	72 - 121
Bromodichloromethane	1.0	U	10.0	9.16		ug/L		92	67 - 120
Bromoform	1.0	U	10.0	9.97		ug/L		100	32 - 128
Bromomethane	1.0	U	10.0	6.60		ug/L		66	10 - 186
2-Butanone (MEK)	10	U *	20.0	21.8		ug/L		109	54 - 129
Carbon disulfide	5.0	U	10.0	8.55		ug/L		85	57 - 147
Carbon tetrachloride	1.0	U	10.0	9.01		ug/L		90	59 - 129
Chlorobenzene	1.0	U	10.0	9.92		ug/L		99	80 - 120
Chloroethane	1.0	U	10.0	7.55		ug/L		76	21 - 165
Chloroform	1.0	U	10.0	9.32		ug/L		93	76 - 120
Chloromethane	1.0	U	10.0	8.65		ug/L		86	33 - 132
1,1-Dichloroethane	1.0	U	10.0	9.64		ug/L		96	79 - 120
1,2-Dichloroethane	1.0	U	10.0	10.2		ug/L		102	68 - 129
1,1-Dichloroethene	1.0	U	10.0	9.20		ug/L		92	74 - 135
1,2-Dichloropropane	1.0	U	10.0	10.2		ug/L		102	78 - 120
1,2,4-Trimethylbenzene	1.0	U	10.0	10.9		ug/L		109	67 - 124
cis-1,3-Dichloropropene	1.0	U	10.0	9.44		ug/L		94	51 - 120
trans-1,3-Dichloropropene	1.0	U	10.0	11.0		ug/L		110	46 - 120
Ethylbenzene	1.0	U	10.0	10.4		ug/L		104	75 - 120
2-Hexanone	10	U	20.0	23.5		ug/L		117	47 - 139
Methylene Chloride	5.0	U	10.0	8.72		ug/L		87	63 - 128
4-Methyl-2-pentanone (MIBK)	10	U	20.0	23.6		ug/L		118	56 - 131
Styrene	1.0	U	10.0	9.62		ug/L		96	71 - 120
1,1,2,2-Tetrachloroethane	1.0	U	10.0	11.9		ug/L		119	63 - 122
Tetrachloroethene	1.0	U	10.0	11.0		ug/L		110	70 - 120
Toluene	1.0	U	10.0	10.3		ug/L		103	78 - 120
Trichloroethene	1.0	U	10.0	9.54		ug/L		95	66 - 120
1,3,5-Trimethylbenzene	1.0	U	10.0	11.4		ug/L		114	63 - 121
Vinyl chloride	1.0	U	10.0	8.00		ug/L		80	49 - 130
Xylenes, Total	2.0	U	20.0	20.8		ug/L		104	76 - 120
1,1,1-Trichloroethane	1.0	U	10.0	8.76		ug/L		88	68 - 121
1,1,2-Trichloroethane	1.0	U	10.0	11.1		ug/L		111	75 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-5 MS

Matrix: Water

Analysis Batch: 174976

Client Sample ID: GW-12636-032715-SSH-15017

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	1.0	U	10.0	9.95		ug/L		99	49 - 123
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	10.9		ug/L		109	32 - 139
1,2-Dibromoethane	1.0	U	10.0	11.5		ug/L		115	74 - 120
Dichlorodifluoromethane	1.0	U	10.0	6.39		ug/L		64	17 - 128
cis-1,2-Dichloroethene	0.43	J	10.0	10.2		ug/L		98	70 - 120
trans-1,2-Dichloroethene	1.0	U	10.0	9.63		ug/L		96	80 - 120
Isopropylbenzene	1.0	U	10.0	11.0		ug/L		110	68 - 120
Methyl acetate	10	U	50.0	60.3		ug/L		121	47 - 130
Methyl tert-butyl ether	1.0	U	10.0	10.1		ug/L		101	46 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.20		ug/L		92	70 - 152
1,2,4-Trichlorobenzene	1.0	U	10.0	10.9		ug/L		109	38 - 138
1,2-Dichlorobenzene	1.0	U	10.0	10.5		ug/L		105	75 - 120
1,3-Dichlorobenzene	1.0	U	10.0	10.6		ug/L		106	73 - 120
1,4-Dichlorobenzene	1.0	U	10.0	10.7		ug/L		107	75 - 120
Trichlorofluoromethane	1.0	U	10.0	8.81		ug/L		88	46 - 157
Dibromochloromethane	1.0	U	10.0	10.5		ug/L		105	56 - 120
Methylcyclohexane	1.0	U	10.0	10.8		ug/L		108	49 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
4-Bromofluorobenzene (Surr)	106		66 - 120
Toluene-d8 (Surr)	103		74 - 120
Dibromofluoromethane (Surr)	95		75 - 121

Lab Sample ID: 240-48746-5 MSD

Matrix: Water

Analysis Batch: 174976

Client Sample ID: GW-12636-032715-SSH-15017

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	15.7		ug/L		79	33 - 145	8	30
Benzene	1.0	U	10.0	8.95		ug/L		89	72 - 121	6	30
Bromodichloromethane	1.0	U	10.0	8.57		ug/L		86	67 - 120	7	30
Bromoform	1.0	U	10.0	9.35		ug/L		93	32 - 128	6	30
Bromomethane	1.0	U	10.0	5.12		ug/L		51	10 - 186	25	30
2-Butanone (MEK)	10	U *	20.0	21.6		ug/L		108	54 - 129	1	30
Carbon disulfide	5.0	U	10.0	8.14		ug/L		81	57 - 147	5	30
Carbon tetrachloride	1.0	U	10.0	8.68		ug/L		87	59 - 129	4	30
Chlorobenzene	1.0	U	10.0	9.56		ug/L		96	80 - 120	4	30
Chloroethane	1.0	U	10.0	6.49		ug/L		65	21 - 165	15	30
Chloroform	1.0	U	10.0	8.72		ug/L		87	76 - 120	7	30
Chloromethane	1.0	U	10.0	8.61		ug/L		86	33 - 132	0	30
1,1-Dichloroethane	1.0	U	10.0	9.06		ug/L		91	79 - 120	6	30
1,2-Dichloroethane	1.0	U	10.0	9.48		ug/L		95	68 - 129	8	30
1,1-Dichloroethene	1.0	U	10.0	8.83		ug/L		88	74 - 135	4	30
1,2-Dichloropropane	1.0	U	10.0	9.72		ug/L		97	78 - 120	4	30
1,2,4-Trimethylbenzene	1.0	U	10.0	10.8		ug/L		108	67 - 124	1	30
cis-1,3-Dichloropropene	1.0	U	10.0	8.99		ug/L		90	51 - 120	5	30

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-5 MSD

Matrix: Water

Analysis Batch: 174976

Client Sample ID: GW-12636-032715-SSH-15017

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	1.0	U	10.0	11.0		ug/L		110	46 - 120	0	30
Ethylbenzene	1.0	U	10.0	10.2		ug/L		102	75 - 120	2	30
2-Hexanone	10	U	20.0	23.3		ug/L		116	47 - 139	1	30
Methylene Chloride	5.0	U	10.0	8.05		ug/L		80	63 - 128	8	30
4-Methyl-2-pentanone (MIBK)	10	U	20.0	22.7		ug/L		113	56 - 131	4	30
Styrene	1.0	U	10.0	9.13		ug/L		91	71 - 120	5	30
1,1,2,2-Tetrachloroethane	1.0	U	10.0	11.3		ug/L		113	63 - 122	6	30
Tetrachloroethene	1.0	U	10.0	9.99		ug/L		100	70 - 120	9	30
Toluene	1.0	U	10.0	9.80		ug/L		98	78 - 120	5	30
Trichloroethene	1.0	U	10.0	9.18		ug/L		92	66 - 120	4	30
1,3,5-Trimethylbenzene	1.0	U	10.0	11.0		ug/L		110	63 - 121	4	30
Vinyl chloride	1.0	U	10.0	8.28		ug/L		83	49 - 130	3	30
Xylenes, Total	2.0	U	20.0	20.1		ug/L		101	76 - 120	3	30
1,1,1-Trichloroethane	1.0	U	10.0	8.43		ug/L		84	68 - 121	4	30
1,1,2-Trichloroethane	1.0	U	10.0	10.7		ug/L		107	75 - 120	4	30
Cyclohexane	1.0	U	10.0	9.65		ug/L		96	49 - 123	3	30
1,2-Dibromo-3-Chloropropane	1.0	U	10.0	11.9		ug/L		119	32 - 139	9	30
1,2-Dibromoethane	1.0	U	10.0	10.4		ug/L		104	74 - 120	10	30
Dichlorodifluoromethane	1.0	U	10.0	6.75		ug/L		67	17 - 128	5	30
cis-1,2-Dichloroethene	0.43	J	10.0	9.49		ug/L		91	70 - 120	7	30
trans-1,2-Dichloroethene	1.0	U	10.0	9.34		ug/L		93	80 - 120	3	30
Isopropylbenzene	1.0	U	10.0	10.1		ug/L		101	68 - 120	8	30
Methyl acetate	10	U	50.0	56.1		ug/L		112	47 - 130	7	30
Methyl tert-butyl ether	1.0	U	10.0	9.40		ug/L		94	46 - 144	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	8.61		ug/L		86	70 - 152	7	30
1,2,4-Trichlorobenzene	1.0	U	10.0	10.9		ug/L		109	38 - 138	0	30
1,2-Dichlorobenzene	1.0	U	10.0	10.3		ug/L		103	75 - 120	1	30
1,3-Dichlorobenzene	1.0	U	10.0	10.2		ug/L		102	73 - 120	3	30
1,4-Dichlorobenzene	1.0	U	10.0	10.2		ug/L		102	75 - 120	5	30
Trichlorofluoromethane	1.0	U	10.0	8.51		ug/L		85	46 - 157	4	30
Dibromochloromethane	1.0	U	10.0	9.87		ug/L		99	56 - 120	6	30
Methylcyclohexane	1.0	U	10.0	10.4		ug/L		104	49 - 127	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
4-Bromofluorobenzene (Surr)	105		66 - 120
Toluene-d8 (Surr)	99		74 - 120
Dibromofluoromethane (Surr)	91		75 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-174273/1-A

Matrix: Water

Analysis Batch: 174569

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		03/30/15 10:32	03/31/15 16:37	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: MB 240-174273/1-A

Matrix: Water

Analysis Batch: 174569

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.63	J	100	1.0	ug/L		03/30/15 10:32	03/31/15 16:37	1
Beryllium	1.0	U	1.0	0.13	ug/L		03/30/15 10:32	03/31/15 16:37	1
Cadmium	1.0	U	1.0	0.14	ug/L		03/30/15 10:32	03/31/15 16:37	1
Cobalt	7.0	U	7.0	0.56	ug/L		03/30/15 10:32	03/31/15 16:37	1
Chromium	1.60	J	5.0	0.55	ug/L		03/30/15 10:32	03/31/15 16:37	1
Iron	22.2	J	100	13	ug/L		03/30/15 10:32	03/31/15 16:37	1
Manganese	0.974	J	15	0.46	ug/L		03/30/15 10:32	03/31/15 16:37	1
Nickel	20	U	20	0.76	ug/L		03/30/15 10:32	03/31/15 16:37	1
Lead	3.0	U	3.0	1.9	ug/L		03/30/15 10:32	03/31/15 16:37	1
Selenium	5.0	U	5.0	4.0	ug/L		03/30/15 10:32	03/31/15 16:37	1
Vanadium	4.0	U	4.0	2.4	ug/L		03/30/15 10:32	03/31/15 16:37	1
Zinc	20	U	20	9.6	ug/L		03/30/15 10:32	03/31/15 16:37	1

Lab Sample ID: LCS 240-174273/2-A

Matrix: Water

Analysis Batch: 174569

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2000	1970		ug/L		99	80 - 120
Barium	2000	1910		ug/L		96	80 - 120
Beryllium	50.0	46.9		ug/L		94	80 - 120
Cadmium	50.0	50.3		ug/L		101	80 - 120
Cobalt	500	475		ug/L		95	80 - 120
Chromium	200	194		ug/L		97	80 - 120
Iron	1000	993		ug/L		99	80 - 120
Manganese	500	492		ug/L		98	80 - 120
Nickel	500	478		ug/L		96	80 - 120
Lead	500	470		ug/L		94	80 - 120
Selenium	2000	2090		ug/L		105	80 - 120
Vanadium	500	497		ug/L		99	80 - 120
Zinc	500	477		ug/L		95	80 - 120

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	34		2000	2120		ug/L		104	75 - 125
Barium	200	B	2000	2210		ug/L		101	75 - 125
Beryllium	1.0	U	50.0	50.3		ug/L		101	75 - 125
Cadmium	1.0	U	50.0	53.8		ug/L		108	75 - 125
Cobalt	7.0	U	500	500		ug/L		100	75 - 125
Chromium	1.0	J B	200	202		ug/L		101	75 - 125
Iron	200	B	1000	1230		ug/L		103	75 - 125
Manganese	41	B	500	552		ug/L		102	75 - 125
Nickel	20	U	500	506		ug/L		101	75 - 125
Lead	3.0	U	500	495		ug/L		99	75 - 125
Selenium	5.0	U	2000	2200		ug/L		110	75 - 125
Vanadium	4.0	U	500	521		ug/L		104	75 - 125

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	20	U	500	501		ug/L		100	75 - 125

Lab Sample ID: 240-48746-1 MSD

Matrix: Water

Analysis Batch: 174569

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	34		2000	2090		ug/L		103	75 - 125	2	20
Barium	200	B	2000	2190		ug/L		100	75 - 125	1	20
Beryllium	1.0	U	50.0	50.0		ug/L		100	75 - 125	1	20
Cadmium	1.0	U	50.0	52.9		ug/L		106	75 - 125	2	20
Cobalt	7.0	U	500	493		ug/L		99	75 - 125	1	20
Chromium	1.0	J B	200	199		ug/L		99	75 - 125	2	20
Iron	200	B	1000	1220		ug/L		103	75 - 125	0	20
Manganese	41	B	500	539		ug/L		100	75 - 125	3	20
Nickel	20	U	500	497		ug/L		99	75 - 125	2	20
Lead	3.0	U	500	485		ug/L		97	75 - 125	2	20
Selenium	5.0	U	2000	2160		ug/L		108	75 - 125	2	20
Vanadium	4.0	U	500	520		ug/L		104	75 - 125	0	20
Zinc	20	U	500	493		ug/L		99	75 - 125	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-174273/1-A

Matrix: Water

Analysis Batch: 174605

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 174273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		03/30/15 10:32	03/31/15 12:15	1
Antimony	2.0	U	2.0	0.16	ug/L		03/30/15 10:32	03/31/15 12:15	1
Copper	2.0	U	2.0	0.75	ug/L		03/30/15 10:32	03/31/15 12:15	1
Thallium	1.0	U	1.0	0.074	ug/L		03/30/15 10:32	03/31/15 12:15	1
Silver	0.20	U	0.20	0.020	ug/L		03/30/15 10:32	03/31/15 12:15	1

Lab Sample ID: LCS 240-174273/3-A

Matrix: Water

Analysis Batch: 174605

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 174273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9820		ug/L		98	80 - 120
Antimony	100	104		ug/L		104	80 - 120
Copper	1000	1040		ug/L		104	80 - 120
Thallium	250	245		ug/L		98	80 - 120
Silver	100	99.1		ug/L		99	80 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174605

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174273

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	50	U	10000	10100		ug/L		101	75 - 125
Antimony	0.57	J	100	110		ug/L		109	75 - 125
Copper	2.0	U	1000	1040		ug/L		104	75 - 125
Thallium	0.21	J	250	251		ug/L		100	75 - 125
Silver	0.20	U	100	103		ug/L		103	75 - 125

Lab Sample ID: 240-48746-1 MSD

Matrix: Water

Analysis Batch: 174605

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174273

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	50	U	10000	9960		ug/L		100	75 - 125	2	20
Antimony	0.57	J	100	108		ug/L		107	75 - 125	2	20
Copper	2.0	U	1000	1040		ug/L		104	75 - 125	1	20
Thallium	0.21	J	250	249		ug/L		99	75 - 125	1	20
Silver	0.20	U	100	102		ug/L		102	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-174281/1-A

Matrix: Water

Analysis Batch: 174588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 174281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		03/31/15 07:35	03/31/15 11:44	1

Lab Sample ID: LCS 240-174281/2-A

Matrix: Water

Analysis Batch: 174588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.25		ug/L		105	80 - 120

Lab Sample ID: 240-48746-1 MS

Matrix: Water

Analysis Batch: 174588

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.968		ug/L		97	80 - 120

Lab Sample ID: 240-48746-1 MSD

Matrix: Water

Analysis Batch: 174588

Client Sample ID: GW-12636-032715-SSH-15013

Prep Type: Dissolved

Prep Batch: 174281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.02		ug/L		102	80 - 120	5	20

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

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 (63-129)	BFB (66-120)	TOL (74-120)	DBFM (75-121)
240-48746-1	GW-12636-032715-SSH-15013	103	85	90	101
240-48746-1 MS	GW-12636-032715-SSH-15013	94	100	97	94
240-48746-1 MSD	GW-12636-032715-SSH-15013	92	99	98	91
240-48746-2	GW-12636-032715-SSH-15014	100	99	101	95
240-48746-3	TB-12636-032715-SSH-15015	101	99	101	92
240-48746-4	GW-12636-032715-SSH-15016	103	101	100	95
240-48746-5	GW-12636-032715-SSH-15017	102	98	101	95
240-48746-5 MS	GW-12636-032715-SSH-15017	98	106	103	95
240-48746-5 MSD	GW-12636-032715-SSH-15017	96	105	99	91
240-48746-6	GW-12636-032715-SSH-15018	101	97	98	91
240-48746-7	GW-12636-032715-SSH-15019	105	97	101	95
240-48746-8	GW-12636-032715-SSH-15020	101	98	98	94
LCS 240-174562/4	Lab Control Sample	88	97	97	89
LCS 240-174825/4	Lab Control Sample	97	106	104	94
LCS 240-174976/4	Lab Control Sample	98	105	102	95
MB 240-174562/6	Method Blank	94	87	91	94
MB 240-174825/6	Method Blank	99	97	97	94
MB 240-174976/6	Method Blank	101	102	101	95

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15013

Lab Sample ID: 240-48746-1

Date Collected: 03/27/15 09:06

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174562	04/01/15 08:13	LRW	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 16:45	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 12:23	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 11:47	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:52	SEM	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15014

Lab Sample ID: 240-48746-2

Date Collected: 03/27/15 10:26

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174825	04/02/15 22:18	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 17:41	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:08	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 12:08	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:52	SEM	TAL CAN

Client Sample ID: TB-12636-032715-SSH-15015

Lab Sample ID: 240-48746-3

Date Collected: 03/27/15 10:00

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174825	04/02/15 22:41	RJQ	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15016

Lab Sample ID: 240-48746-4

Date Collected: 03/27/15 11:41

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174825	04/02/15 23:04	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 17:49	KLC	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 17:45	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:15	AS1	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15016

Lab Sample ID: 240-48746-4

Date Collected: 03/27/15 11:41

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 13:12	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 12:12	BW	TAL CAN
Total/NA	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 12:10	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:52	SEM	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15017

Lab Sample ID: 240-48746-5

Date Collected: 03/27/15 12:16

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174976	04/03/15 12:43	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 17:57	KLC	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 17:53	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:31	AS1	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 13:27	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 12:14	BW	TAL CAN
Total/NA	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 12:16	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:52	SEM	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174976	04/03/15 15:23	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 18:13	KLC	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 18:01	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:38	AS1	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 13:35	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15018

Lab Sample ID: 240-48746-6

Date Collected: 03/27/15 13:46

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	7470A		1	174588	03/31/15 12:22	BW	TAL CAN
Total/NA	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 12:20	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:54	SEM	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15019

Lab Sample ID: 240-48746-7

Date Collected: 03/27/15 14:46

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174976	04/03/15 15:46	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 18:21	KLC	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 18:17	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:46	AS1	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 13:42	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 12:25	BW	TAL CAN
Total/NA	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 12:24	BW	TAL CAN
Total/NA	Analysis	9012A		1	174792	04/02/15 08:54	SEM	TAL CAN

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Date Collected: 03/27/15 14:47

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	174976	04/03/15 16:09	RJQ	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6010B		1	174569	03/31/15 18:29	KLC	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6010B		1	174569	03/31/15 18:25	KLC	TAL CAN
Dissolved	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Dissolved	Analysis	6020		1	174605	03/31/15 13:54	AS1	TAL CAN
Total Recoverable	Prep	3005A			174273	03/30/15 10:32	WAL	TAL CAN
Total Recoverable	Analysis	6020		1	174605	03/31/15 13:50	AS1	TAL CAN
Dissolved	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Dissolved	Analysis	7470A		1	174588	03/31/15 12:27	BW	TAL CAN
Total/NA	Prep	7470A			174281	03/31/15 07:35	WAL	TAL CAN
Total/NA	Analysis	7470A		1	174588	03/31/15 12:29	BW	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Client Sample ID: GW-12636-032715-SSH-15020

Lab Sample ID: 240-48746-8

Date Collected: 03/27/15 14:47

Matrix: Water

Date Received: 03/28/15 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9012A		1	174792	04/02/15 08:54	SEM	TAL CAN

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09-008, RACER Peregrine

TestAmerica Job ID: 240-48746-1

Laboratory: TestAmerica Canton

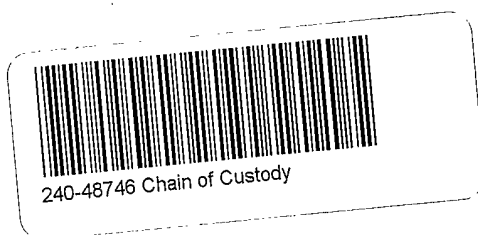
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS





CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170 32163.7
Phone: (734) 453-5123 Fax: (734) 453-5201

COC NO.: PL-14843

PAGE 1 OF 1
(See Reverse Side for Instructions)

Project No./Phase/Task Code: 12636-T09-001415		Laboratory Name: Test America		Lab Location: North Canton, OH		SSOW ID: 12636-T09-008	
Project Name: Coldwater Rd / Peregrine		Lab Contact: D. Heckler		Lab Quote No: 2405826		Cooler No:	
Project Location: Genesee Twp, MI		SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: R. Fleisher		Matrix Code		Unpreserved		Total Containers/Sample	
Sampler(s): S. Hoewenmayer		(see back of COC)		Hydrochloric Acid (HCl)		Other:	
		Grab (g) or Comp (c)		Nitric Acid (HNO ₃)		EnCores 3x5-g, 1x25-g	
		TIME (hh:mm)		Sulfuric Acid (H ₂ SO ₄)		Methanol/Water (Soil)	
		DATE (mm/dd/yyyy)		Sodium Hydroxide (NaOH)		VOC	
1 GW-12636-032715-SSH-15013		3/27/15 0906		X		X	
2 GW-12636-032715-SSH-15014		1026		X		X	
3 TB-12636-032715-SSH-15015		1000		X		X	
4 GW-12636-032715-SSH-15016		1141		X		X	
5 / -15017		1216		X		X	
6 / -15018		1346		X		X	
7 / -15019		1446		X		X	
8 GW-12636-032715-SSH-15020		1447		X		X	
9							
10							
11							
12							
13							
14							
15							

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ 2 Week ☐ Other:		Total Number of Containers: 49		Notes/ Special Requirements: D. Heckler is field Siltord	
RELINQUISHED BY 1. A.A. Mon		DATE 3/27/15		COMPANY CRA	
2. /		TIME 1700		RECEIVED BY Jessie Bonni	
3. /		DATE		COMPANY	
4. /		TIME		DATE	
5. /		TIME		DATE	

Carrier: FedEx		Airbill No: 807522183081		Date Shipped: 3/27/15		COMMENTS/ SPECIAL INSTRUCTIONS:	
MS/MSD Request		X					

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

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-12636-032715-SSH-15013	240-48746-J-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15013	240-48746-K-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15013	240-48746-L-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15013	240-48746-M-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15014	240-48746-D-2	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15014	240-48746-E-2	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15016	240-48746-D-4	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15016	240-48746-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032715-SSH-15016	240-48746-F-4	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15017	240-48746-D-5	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15017	240-48746-E-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032715-SSH-15017	240-48746-F-5	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15018	240-48746-D-6	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15018	240-48746-E-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032715-SSH-15018	240-48746-F-6	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15019	240-48746-D-7	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15019	240-48746-E-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032715-SSH-15019	240-48746-F-7	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____
GW-12636-032715-SSH-15020	240-48746-D-8	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
GW-12636-032715-SSH-15020	240-48746-E-8	Plastic 500ml - with Nitric Acid	<2	_____	_____
GW-12636-032715-SSH-15020	240-48746-F-8	Plastic 500ml - w/ Nitric - Dis.	<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: 240-50062-1

Client Project/Site: 12636-T09, RACER Peregrine

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

5/12/2015 4:17:06 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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

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

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Job ID: 240-50062-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 12636-T09, RACER Peregrine

Report Number: 240-50062-1

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 04/30/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.3 C.

A revised chain of custody was provided on May 1, 2015. Amenable cyanide was requested.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample W-12636-042915-SSH-1521 (240-50062-1) was analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/06/2015.

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

DISSOLVED METALS (ICP)

Sample W-12636-042915-SSH-1521 (240-50062-1) was analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/04/2015 and analyzed on 05/05/2015.

Barium, Chromium and Iron were detected in method blank MB 240-179115/1-A 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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Job ID: 240-50062-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

DISSOLVED METALS (ICPMS)

Sample W-12636-042915-SSH-1521 (240-50062-1) was analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/04/2015 and analyzed on 05/08/2015 and 05/11/2015.

Copper was detected in method blank MB 240-179115/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Antimony was detected in method blank MB 240-179115/1-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.

Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

DISSOLVED MERCURY (CVAA)

Sample W-12636-042915-SSH-1521 (240-50062-1) was analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 05/01/2015 and analyzed on 05/04/2015.

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

AMENABLE CYANIDE

Sample W-12636-042915-SSH-1521 (240-50062-1) was analyzed for amenable cyanide in accordance with EPA SW-846 Method 9012A. The samples were analyzed on 05/04/2015.

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

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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.

Metals

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

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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-50062-1	W-12636-042915-SSH-1521	Water	04/29/15 10:11	04/30/15 10:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Client Sample ID: W-12636-042915-SSH-1521

Lab Sample ID: 240-50062-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.9	J	10	0.94	ug/L	1			8260B	Total/NA
2-Butanone (MEK)	13		10	0.53	ug/L	1			8260B	Total/NA
Arsenic	11		5.0	2.9	ug/L	1			6010B	Dissolved
Barium	120	B	100	1.0	ug/L	1			6010B	Dissolved
Cadmium	0.20	J	1.0	0.14	ug/L	1			6010B	Dissolved
Chromium	1.2	J B	5.0	0.55	ug/L	1			6010B	Dissolved
Iron	1400	B	100	13	ug/L	1			6010B	Dissolved
Manganese	77		15	0.46	ug/L	1			6010B	Dissolved
Nickel	4.9	J	20	0.76	ug/L	1			6010B	Dissolved
Zinc	20		20	9.6	ug/L	1			6010B	Dissolved
Aluminum	320		50	9.0	ug/L	1			6020	Dissolved
Antimony	0.99	J B	2.0	0.16	ug/L	1			6020	Dissolved
Copper	3.3	B	2.0	0.75	ug/L	1			6020	Dissolved
Thallium	0.27	J	1.0	0.074	ug/L	1			6020	Dissolved
Silver	0.17	J	0.20	0.020	ug/L	1			6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
9012A	Cyanide, Amenable	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: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.9	J	10	0.94	ug/L			05/06/15 07:59	1
Benzene	1.0	U	1.0	0.35	ug/L			05/06/15 07:59	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			05/06/15 07:59	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/06/15 07:59	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/06/15 07:59	1
2-Butanone (MEK)	13		10	0.53	ug/L			05/06/15 07:59	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			05/06/15 07:59	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/06/15 07:59	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/15 07:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/06/15 07:59	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/06/15 07:59	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/06/15 07:59	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/06/15 07:59	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/06/15 07:59	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/06/15 07:59	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/06/15 07:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			05/06/15 07:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/06/15 07:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/06/15 07:59	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/06/15 07:59	1
2-Hexanone	10	U	10	0.48	ug/L			05/06/15 07:59	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			05/06/15 07:59	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/06/15 07:59	1
Styrene	1.0	U	1.0	0.45	ug/L			05/06/15 07:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/06/15 07:59	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/06/15 07:59	1
Toluene	1.0	U	1.0	0.23	ug/L			05/06/15 07:59	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/06/15 07:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			05/06/15 07:59	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/06/15 07:59	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/06/15 07:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/06/15 07:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/06/15 07:59	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/06/15 07:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			05/06/15 07:59	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			05/06/15 07:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/06/15 07:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/06/15 07:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/06/15 07:59	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/06/15 07:59	1
Methyl acetate	10	U	10	2.3	ug/L			05/06/15 07:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/06/15 07:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/06/15 07:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/06/15 07:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/15 07:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/06/15 07:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/06/15 07:59	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/06/15 07:59	1
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			05/06/15 07:59	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/06/15 07:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 129					05/06/15 07:59	1
4-Bromofluorobenzene (Surr)	75		66 - 120					05/06/15 07:59	1
Toluene-d8 (Surr)	95		74 - 120					05/06/15 07:59	1
Dibromofluoromethane (Surr)	94		75 - 121					05/06/15 07:59	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Method: 6010B - Metals (ICP) - Dissolved

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		5.0	2.9	ug/L		05/04/15 09:29	05/05/15 17:51	1
Barium	120	B	100	1.0	ug/L		05/04/15 09:29	05/05/15 17:51	1
Beryllium	1.0	U	1.0	0.13	ug/L		05/04/15 09:29	05/05/15 17:51	1
Cadmium	0.20	J	1.0	0.14	ug/L		05/04/15 09:29	05/05/15 17:51	1
Cobalt	7.0	U	7.0	0.56	ug/L		05/04/15 09:29	05/05/15 17:51	1
Chromium	1.2	J B	5.0	0.55	ug/L		05/04/15 09:29	05/05/15 17:51	1
Iron	1400	B	100	13	ug/L		05/04/15 09:29	05/05/15 17:51	1
Manganese	77		15	0.46	ug/L		05/04/15 09:29	05/05/15 17:51	1
Nickel	4.9	J	20	0.76	ug/L		05/04/15 09:29	05/05/15 17:51	1
Lead	3.0	U	3.0	1.9	ug/L		05/04/15 09:29	05/05/15 17:51	1
Selenium	5.0	U	5.0	4.0	ug/L		05/04/15 09:29	05/05/15 17:51	1
Vanadium	4.0	U	4.0	2.4	ug/L		05/04/15 09:29	05/05/15 17:51	1
Zinc	20		20	9.6	ug/L		05/04/15 09:29	05/05/15 17:51	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	320		50	9.0	ug/L		05/04/15 09:29	05/08/15 14:37	1
Antimony	0.99	J B	2.0	0.16	ug/L		05/04/15 09:29	05/08/15 14:37	1
Copper	3.3	B	2.0	0.75	ug/L		05/04/15 09:29	05/08/15 14:37	1
Thallium	0.27	J	1.0	0.074	ug/L		05/04/15 09:29	05/11/15 15:32	1
Silver	0.17	J	0.20	0.020	ug/L		05/04/15 09:29	05/08/15 14:37	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Method: 7470A - Mercury (CVAA) - Dissolved

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	—	05/01/15 14:00	05/04/15 13:50	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

General Chemistry

Client Sample ID: W-12636-042915-SSH-1521

Date Collected: 04/29/15 10:11

Date Received: 04/30/15 10:30

Lab Sample ID: 240-50062-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Amenable	0.0050	U	0.0050	0.0050	mg/L	-		05/04/15 17:41	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

GC/MS VOA

Analysis Batch: 179462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Total/NA	Water	8260B	
LCS 240-179462/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-179462/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 178871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	7470A	
LCS 240-178871/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-178871/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 179115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	3005A	
LCS 240-179115/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-179115/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-179115/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 179179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	7470A	178871
LCS 240-178871/2-A	Lab Control Sample	Total/NA	Water	7470A	178871
MB 240-178871/1-A	Method Blank	Total/NA	Water	7470A	178871

Analysis Batch: 179393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	6010B	179115
LCS 240-179115/2-A	Lab Control Sample	Total Recoverable	Water	6010B	179115
MB 240-179115/1-A	Method Blank	Total Recoverable	Water	6010B	179115

Analysis Batch: 180135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	6020	179115
LCS 240-179115/3-A	Lab Control Sample	Total Recoverable	Water	6020	179115
MB 240-179115/1-A	Method Blank	Total Recoverable	Water	6020	179115

Analysis Batch: 180252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Dissolved	Water	6020	179115
LCS 240-179115/3-A	Lab Control Sample	Total Recoverable	Water	6020	179115
MB 240-179115/1-A	Method Blank	Total Recoverable	Water	6020	179115

General Chemistry

Analysis Batch: 179240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-50062-1	W-12636-042915-SSH-1521	Total/NA	Water	9012A	

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Lab Sample ID: MB 240-179462/6

Matrix: Water

Analysis Batch: 179462

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			05/06/15 00:55	1
Benzene	1.0	U	1.0	0.35	ug/L			05/06/15 00:55	1
Bromodichloromethane	1.0	U	1.0	0.29	ug/L			05/06/15 00:55	1
Bromoform	1.0	U	1.0	0.56	ug/L			05/06/15 00:55	1
Bromomethane	1.0	U	1.0	0.44	ug/L			05/06/15 00:55	1
2-Butanone (MEK)	10	U	10	0.53	ug/L			05/06/15 00:55	1
Carbon disulfide	5.0	U	5.0	0.38	ug/L			05/06/15 00:55	1
Carbon tetrachloride	1.0	U	1.0	0.43	ug/L			05/06/15 00:55	1
Chlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/15 00:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/06/15 00:55	1
Chloroform	1.0	U	1.0	0.25	ug/L			05/06/15 00:55	1
Chloromethane	1.0	U	1.0	0.44	ug/L			05/06/15 00:55	1
1,1-Dichloroethane	1.0	U	1.0	0.30	ug/L			05/06/15 00:55	1
1,2-Dichloroethane	1.0	U	1.0	0.23	ug/L			05/06/15 00:55	1
1,1-Dichloroethene	1.0	U	1.0	0.45	ug/L			05/06/15 00:55	1
1,2-Dichloropropane	1.0	U	1.0	0.25	ug/L			05/06/15 00:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.41	ug/L			05/06/15 00:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.46	ug/L			05/06/15 00:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.56	ug/L			05/06/15 00:55	1
Ethylbenzene	1.0	U	1.0	0.25	ug/L			05/06/15 00:55	1
2-Hexanone	10	U	10	0.48	ug/L			05/06/15 00:55	1
Methylene Chloride	5.0	U	5.0	0.33	ug/L			05/06/15 00:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.99	ug/L			05/06/15 00:55	1
Styrene	1.0	U	1.0	0.45	ug/L			05/06/15 00:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22	ug/L			05/06/15 00:55	1
Tetrachloroethene	1.0	U	1.0	0.31	ug/L			05/06/15 00:55	1
Toluene	1.0	U	1.0	0.23	ug/L			05/06/15 00:55	1
Trichloroethene	1.0	U	1.0	0.22	ug/L			05/06/15 00:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.48	ug/L			05/06/15 00:55	1
Vinyl chloride	1.0	U	1.0	0.29	ug/L			05/06/15 00:55	1
Xylenes, Total	2.0	U	2.0	0.52	ug/L			05/06/15 00:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.44	ug/L			05/06/15 00:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.24	ug/L			05/06/15 00:55	1
Cyclohexane	1.0	U	1.0	0.45	ug/L			05/06/15 00:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.82	ug/L			05/06/15 00:55	1
1,2-Dibromoethane	1.0	U	1.0	0.32	ug/L			05/06/15 00:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.32	ug/L			05/06/15 00:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.26	ug/L			05/06/15 00:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			05/06/15 00:55	1
Isopropylbenzene	1.0	U	1.0	0.35	ug/L			05/06/15 00:55	1
Methyl acetate	10	U	10	2.3	ug/L			05/06/15 00:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.20	ug/L			05/06/15 00:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.45	ug/L			05/06/15 00:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.32	ug/L			05/06/15 00:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.25	ug/L			05/06/15 00:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.19	ug/L			05/06/15 00:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.27	ug/L			05/06/15 00:55	1
Trichlorofluoromethane	1.0	U	1.0	0.49	ug/L			05/06/15 00:55	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Lab Sample ID: MB 240-179462/6

Matrix: Water

Analysis Batch: 179462

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.43	ug/L			05/06/15 00:55	1
Methylcyclohexane	1.0	U	1.0	0.43	ug/L			05/06/15 00:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 129					05/06/15 00:55	1
4-Bromofluorobenzene (Surr)	79		66 - 120					05/06/15 00:55	1
Toluene-d8 (Surr)	93		74 - 120					05/06/15 00:55	1
Dibromofluoromethane (Surr)	91		75 - 121					05/06/15 00:55	1

Lab Sample ID: LCS 240-179462/4

Matrix: Water

Analysis Batch: 179462

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	18.5		ug/L		92	43 - 136
Benzene	10.0	9.67		ug/L		97	80 - 120
Bromodichloromethane	10.0	9.55		ug/L		96	72 - 121
Bromoform	10.0	9.61		ug/L		96	40 - 131
Bromomethane	10.0	7.91		ug/L		79	11 - 185
2-Butanone (MEK)	20.0	19.1		ug/L		95	60 - 126
Carbon disulfide	10.0	10.8		ug/L		108	62 - 142
Carbon tetrachloride	10.0	10.2		ug/L		102	66 - 128
Chlorobenzene	10.0	9.27		ug/L		93	80 - 120
Chloroethane	10.0	7.89		ug/L		79	25 - 153
Chloroform	10.0	9.79		ug/L		98	79 - 120
Chloromethane	10.0	7.96		ug/L		80	44 - 126
1,1-Dichloroethane	10.0	10.0		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.80		ug/L		98	71 - 127
1,1-Dichloroethene	10.0	10.5		ug/L		105	78 - 131
1,2-Dichloropropane	10.0	10.5		ug/L		105	80 - 120
1,2,4-Trimethylbenzene	10.0	9.42		ug/L		94	76 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 120
trans-1,3-Dichloropropene	10.0	10.6		ug/L		106	58 - 120
Ethylbenzene	10.0	9.49		ug/L		95	80 - 120
2-Hexanone	20.0	20.0		ug/L		100	55 - 133
Methylene Chloride	10.0	10.5		ug/L		105	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	21.4		ug/L		107	63 - 128
Styrene	10.0	9.08		ug/L		91	79 - 120
1,1,2,2-Tetrachloroethane	10.0	9.96		ug/L		100	68 - 120
Tetrachloroethene	10.0	9.32		ug/L		93	79 - 120
Toluene	10.0	9.95		ug/L		99	80 - 120
Trichloroethene	10.0	9.87		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	10.0	9.36		ug/L		94	72 - 120
Vinyl chloride	10.0	7.44		ug/L		74	53 - 127
Xylenes, Total	20.0	19.2		ug/L		96	80 - 120
1,1,1-Trichloroethane	10.0	9.76		ug/L		98	74 - 120
1,1,2-Trichloroethane	10.0	9.99		ug/L		100	80 - 120
Cyclohexane	10.0	9.08		ug/L		91	54 - 121

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Lab Sample ID: LCS 240-179462/4

Matrix: Water

Analysis Batch: 179462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	10.0	9.85		ug/L		99	42 - 136
1,2-Dibromoethane	10.0	10.7		ug/L		107	79 - 120
Dichlorodifluoromethane	10.0	6.51		ug/L		65	19 - 129
cis-1,2-Dichloroethene	10.0	9.79		ug/L		98	80 - 120
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 120
Isopropylbenzene	10.0	9.40		ug/L		94	75 - 120
Methyl acetate	50.0	49.8		ug/L		100	58 - 131
Methyl tert-butyl ether	10.0	9.93		ug/L		99	52 - 144
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.72		ug/L		97	74 - 151
1,2,4-Trichlorobenzene	10.0	9.20		ug/L		92	48 - 135
1,2-Dichlorobenzene	10.0	9.39		ug/L		94	80 - 120
1,3-Dichlorobenzene	10.0	9.24		ug/L		92	80 - 120
1,4-Dichlorobenzene	10.0	9.18		ug/L		92	80 - 120
Trichlorofluoromethane	10.0	9.51		ug/L		95	49 - 157
Dibromochloromethane	10.0	10.4		ug/L		104	64 - 120
Methylcyclohexane	10.0	8.91		ug/L		89	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		63 - 129
4-Bromofluorobenzene (Surr)	90		66 - 120
Toluene-d8 (Surr)	99		74 - 120
Dibromofluoromethane (Surr)	90		75 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-179115/1-A

Matrix: Water

Analysis Batch: 179393

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0	U	5.0	2.9	ug/L		05/04/15 09:29	05/05/15 17:24	1
Barium	1.11	J	100	1.0	ug/L		05/04/15 09:29	05/05/15 17:24	1
Beryllium	1.0	U	1.0	0.13	ug/L		05/04/15 09:29	05/05/15 17:24	1
Cadmium	1.0	U	1.0	0.14	ug/L		05/04/15 09:29	05/05/15 17:24	1
Cobalt	7.0	U	7.0	0.56	ug/L		05/04/15 09:29	05/05/15 17:24	1
Chromium	0.620	J	5.0	0.55	ug/L		05/04/15 09:29	05/05/15 17:24	1
Iron	23.0	J	100	13	ug/L		05/04/15 09:29	05/05/15 17:24	1
Manganese	15	U	15	0.46	ug/L		05/04/15 09:29	05/05/15 17:24	1
Nickel	20	U	20	0.76	ug/L		05/04/15 09:29	05/05/15 17:24	1
Lead	3.0	U	3.0	1.9	ug/L		05/04/15 09:29	05/05/15 17:24	1
Selenium	5.0	U	5.0	4.0	ug/L		05/04/15 09:29	05/05/15 17:24	1
Vanadium	4.0	U	4.0	2.4	ug/L		05/04/15 09:29	05/05/15 17:24	1
Zinc	20	U	20	9.6	ug/L		05/04/15 09:29	05/05/15 17:24	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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

Lab Sample ID: LCS 240-179115/2-A

Matrix: Water

Analysis Batch: 179393

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	2000	2060		ug/L		103	80 - 120
Barium	2000	1950		ug/L		98	80 - 120
Beryllium	50.0	48.0		ug/L		96	80 - 120
Cadmium	50.0	51.8		ug/L		104	80 - 120
Cobalt	500	493		ug/L		99	80 - 120
Chromium	200	198		ug/L		99	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Manganese	500	503		ug/L		101	80 - 120
Nickel	500	504		ug/L		101	80 - 120
Lead	500	495		ug/L		99	80 - 120
Selenium	2000	2090		ug/L		105	80 - 120
Vanadium	500	493		ug/L		99	80 - 120
Zinc	500	510		ug/L		102	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-179115/1-A

Matrix: Water

Analysis Batch: 180135

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	50	U	50	9.0	ug/L		05/04/15 09:29	05/08/15 13:57	1
Antimony	0.609	J	2.0	0.16	ug/L		05/04/15 09:29	05/08/15 13:57	1
Copper	2.76		2.0	0.75	ug/L		05/04/15 09:29	05/08/15 13:57	1
Silver	0.20	U	0.20	0.020	ug/L		05/04/15 09:29	05/08/15 13:57	1

Lab Sample ID: MB 240-179115/1-A

Matrix: Water

Analysis Batch: 180252

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	1.0	U	1.0	0.074	ug/L		05/04/15 09:29	05/11/15 14:49	1

Lab Sample ID: LCS 240-179115/3-A

Matrix: Water

Analysis Batch: 180135

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	10000	9530		ug/L		95	80 - 120
Antimony	100	99.5		ug/L		100	80 - 120
Copper	1000	1060		ug/L		106	80 - 120
Silver	100	99.7		ug/L		100	80 - 120

Lab Sample ID: LCS 240-179115/3-A

Matrix: Water

Analysis Batch: 180252

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 179115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	250	237		ug/L		95	80 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-178871/1-A

Matrix: Water

Analysis Batch: 179179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 178871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L	-	05/01/15 14:00	05/04/15 13:16	1

Lab Sample ID: LCS 240-178871/2-A

Matrix: Water

Analysis Batch: 179179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 178871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.74		ug/L	-	95	80 - 120

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

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 (63-129)	BFB (66-120)	TOL (74-120)	DBFM (75-121)
240-50062-1	W-12636-042915-SSH-1521	91	75	95	94
LCS 240-179462/4	Lab Control Sample	86	90	99	90
MB 240-179462/6	Method Blank	91	79	93	91

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Client Sample ID: W-12636-042915-SSH-1521

Lab Sample ID: 240-50062-1

Date Collected: 04/29/15 10:11

Matrix: Water

Date Received: 04/30/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	179462	05/06/15 07:59	LRW	TAL CAN
Dissolved	Prep	3005A			179115	05/04/15 09:29	WAL	TAL CAN
Dissolved	Analysis	6010B		1	179393	05/05/15 17:51	KLC	TAL CAN
Dissolved	Prep	3005A			179115	05/04/15 09:29	WAL	TAL CAN
Dissolved	Analysis	6020		1	180135	05/08/15 14:37	AMM2	TAL CAN
Dissolved	Prep	3005A			179115	05/04/15 09:29	WAL	TAL CAN
Dissolved	Analysis	6020		1	180252	05/11/15 15:32	AS1	TAL CAN
Dissolved	Prep	7470A			178871	05/01/15 14:00	WAL	TAL CAN
Dissolved	Analysis	7470A		1	179179	05/04/15 13:50	BW	TAL CAN
Total/NA	Analysis	9012A		1	179240	05/04/15 17:41	SEM	TAL CAN

Laboratory References:

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

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 12636-T09, RACER Peregrine

TestAmerica Job ID: 240-50062-1

Laboratory: TestAmerica Canton

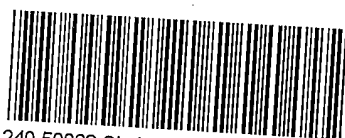
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

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
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-50062 Chain of Custody



CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123
Fax: (734) 453-5201

COC NO.: PL-14838

PAGE / OF

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 12636-TO9-001415			Laboratory Name: Test America			Lab Location: North Canton, OH			SSOW ID: 12636-TO9-008		
Project Name: Raccoon Trust Peregrine/Falchwater			Lab Contact: D. Heckler			Lab Quote No: 24005826			Cooler No:		
Project Location: Genesee Twp, MI			CONTAINER QUANTITY & PRESERVATION			ANALYSIS REQUESTED (See Back of COC for Definitions)			Carrier: FedEx		
Chemistry Contact: R. Fleisher			SAMPLE TYPE			Total Containers/Sample			Airbill No:		
Sampler(s): S. Hoernemeyer			Matrix Code			Other:			Date Shipped: 4/29/15		
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)			TIME (hh:mm)			COMMENTS/ SPECIAL INSTRUCTIONS:		
1 W-12636-042915-SS4-1521			4/29/15			1011			MS/MSD Request		
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CRA Form: COG-10A (2014-08-04)

GOLDENROD – Sampling Crew

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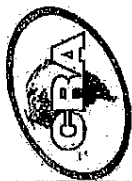
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Page 1

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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>
W-12636-042915-SSH-1521	240-50062-D-1	Plastic 250ml - with Sodium Hydrox	>12	_____	_____
W-12636-042915-SSH-1521	240-50062-E-1	Plastic 500ml - w/ Nitric - Dis.	<2	_____	_____



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COCNO.: PL-14838

PAGE 7 OF 7

(See Reverse Side for Instructions)

[illegible]

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT -- ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE – Fully Executed Copy (CRA)

YELLOW—Receiving Laboratory Copy

PINK—Shipper

GOLDENROD - Sampling Crew

CBA Form: CBA-502a (Rev. 11/04)

Attachment C

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
B-9
GW-12636-091411-JY-015
9/14/2011
(8.66-13.19) in BGS

Shallow
B-9
GW-12636-120310-BW-019
12/3/2010
-

Shallow
B-9
GW-12636-051111-SSH-104
5/11/2011
-

Shallow
B-9
GW-12636-120711-JY-415
12/7/2011
-

Shallow
B-9
GW-12636-032614-SSH-1404
3/26/2014
-

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.022 J	0.704	0.268	0.083	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.00023 J	0.002 U	0.002 U	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-	0.00017 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.005 U	0.0033 J	0.005 U	0.005 U	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	-	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.011 J	0.0173 J	0.0101 J	0.011 J	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	-	0.0087 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.01	0.0019 J	0.0022 J	0.0024 J	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.002 U	0.0031	0.002 U	0.002 U	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	-	0.00085 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	0.27	1.01	0.302	0.14	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	-
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	-	-	-	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	6.8 J ^{near}	0.391	0.211	0.31	-
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	-	-	-	0.047
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-</							

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
B-9
GW-12636-060914-SSH-1420
6/9/2014
-

Shallow
B-9
GW-12636-090914-SSH-1428
9/9/2014
-

Shallow
B-9
GW-120914-12636-SSH-1439
12/9/2014
-

Shallow
B-9
GW-12636-032715-SSH-15014
3/27/2015
-

Shallow
MW-1
GW-12636-091211-JY-005
9/12/2011
(4.41-10.72) in BGS

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation						
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria									
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	-	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	-	0.001 U	0.001 U	
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	-	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	-	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	-	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	-	0.001 U	0.001 U	
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	-	0.001 U	0.001 U	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	-	0.001 U	0.001 U	
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	-	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	-	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	-	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	-	0.001 U	0.001 U	
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	-	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	-	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	-	0.001 U	0.001 U	
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	-	0.01 U	0.01 U	
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	-	0.01 U	0.01 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	-	0.01 U	0.01 U	
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	-	0.0016 J	0.01 U	
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	-	0.001 U	0.001 U	
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	-	0.001 U	0.001 U	
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	-	0.001 U	0.001 U	
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	-	0.001 U	0.001 UJ	
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	-	0.005 U	0.005 U	
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	-	0.001 U	0.001 U	
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	-	0.001 U	0.001 U	
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	-	0.001 U	0.001 U	
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	-	0.001 U	0.001 U	
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	-	0.001 U	0.001 U	
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	-	0.001 U	0.001 U	
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	-	0.001 U	0.001 U	
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	-	0.001 U	0.001 U	
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	-	0.001 U	0.001 U	
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	-	0.001 U	0.001 U	
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	-	0.001 U	0.005 U	
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	-	0.005 U	0.005 U	
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	-	0.001 U	0.001 U	
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	-	0.001 U	0.001 U	
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	-	0.001 U	0.001 U	
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	-	0.001 U	0.001 U	
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	-	0.001 U	0.001 U	
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	-	0.001 U	0.001 U	
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	-	0.001 U	0.001 U	
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	-	0.001 U	0.001 U	
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	0.002 U	0.002 U	
Metals															
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-	-	0.32
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	0.05 U	-	
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-	0.002 U	
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	0.00073 J	-	
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	-	-	0.005 U	
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	0.0061	-	
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-	-	0.045 J	
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	0.01 J	-	
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-	0.001 U	
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	0.001 U	-	
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-	0.001 U	
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	0.0005 J	-	
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-	-	0.005 U	
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	0.005 U	-	
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-	-	0.0029 J	
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	0.007 U	-	
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-	-	0.004	
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	0.00089 J	-	
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	1.2	
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	0.1 U	-	
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.0019 J	-	0.0033	
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	-	
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.03	0.21	0.047	-	0.4	
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.019	0.2	0.039	0.036	-	
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-	0.0002 U	
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	0.0002 U	-	
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-	-	0.02 U	
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	-	0.004 J	-	
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-	0.005 U	
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	0.005 U	-	
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-	-	0.0002 U	
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	-	0.0002 U	-	
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-	-	0.001 U	
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	-	0.001 U	-	
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-	-	0.004 U	
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	-	0.004 U	-	
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-	-	0.042	
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	-	0.		

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:	Shallow													
Sample Location:	MW-1	MW-1	MW-1	MW-1	MW-1									
Sample ID:	GW-12636-120210-BW-011	GW-12636-051311-SSH-110	GW-12636-120711-JY-414	GW-12636-032614-SSH-1407	GW-12636-032715-SSH-15017									
Sample Date:	12/2/2010	5/13/2011	12/7/2011	3/26/2014	3/27/2015									
Sample Depth:	-	-	-	-	-									

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater	Non-Residential Groundwater	Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation			
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria		Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation					
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 UJ	0.005 UJ	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.00023 J	0.001 U	0.001 U	0.00062 J	0.00043 J
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	1.85	0.633	0.11	0.41	0.16
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	0.05 U	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00036 J	0.002 U	0.00089 J	0.00049 J	0.00049 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	0.00032 J	0.00024 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0094	0.005 U	0.0065	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	0.005 U	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.0566 J	0.0445 J	0.053 J	0.041 J	0.02 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	0.058 J	0.021 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	0.001 U	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.0035 J	0.005 U	0.005 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	0.005 U	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.0032 J	0.007 U	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	0.007 U	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.028	0.0083	0.0043	0.007	0.003
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	0.0015 J	0.0027
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	3.59	0.857	0.24	0.55	0.2
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	0.1 U	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.0142 nd	0.0033	0.003 U	0.0034	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	-	-	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.164	0.0567	0.025	0.038	0.1
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	-	-	0.01 J	0.018
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	0.0002 U	0.0002 U
Nickel	mg/L</													

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow MW-2 GW-12636-091211-JY-003 9/12/2011 (4.54-12.84) in BGS
Shallow MW-2 GW-12636-120310-BW-014 12/3/2010
Shallow MW-2 GW-12636-051311-SSH-113 5/13/2011
Shallow MW-2 GW-12636-120611-JY-409 12/6/2011
Shallow MW-2 GW-12636-032614-SSH-1405 3/26/2014

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.005 UJ	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.036 J	0.508	0.213	0.051	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-	-	0.05 U	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.002 U	0.002 U	0.00084 J	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	-	-	0.002 U	0.00054 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.01	0.0279 nd	0.0046 J	0.005 U	0.0066
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.0075	-	-	0.005 U	0.0046 J
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.22	0.279	0.0515 J	0.23	0.31
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.23	-	-	0.23	0.29
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-	-	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.00071 J	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	0.001 U	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U	-	-	0.005 U	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.0023 J	0.0056 J	0.0024 J	0.0076	0.014
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.0059 J	-	-	0.0072	0.011
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.00044 J	0.0041	0.0026 U	0.002 U	0.0034
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.00056 J	-	-	0.002 U	0.0024
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	16	24.8	8.27	12	6
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	14 nd	-	-	11 nd	4
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	-	-	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	2.5 nd	2.12 nd	0.541	2.6 nd	1.8 nd
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	2.7 nd	-	-	2.6 nd	1.7 nd
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013							

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
MW-2
GW-12636-032715-SSH-15019 3/27/2015 -
Shallow
MW-2
GW-12636-032715-SSH-15020 3/27/2015 (Duplicate)
Shallow
MW-4-02
GW-12636-091311-JY-009 9/13/2011 (11.91-13.17) in BGS
Shallow
MW-4-02
GW-12636-112910-BW-001 11/29/2010 -
Shallow
MW-4-02
GW-12636-051111-SSH-101 5/11/2011 -

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U		0.001 U		0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U		0.001 U		0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U		0.001 U		0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U		0.001 U		0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U		0.001 U		0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U		0.001 U		0.005 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U		0.001 U		0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-		0.22	1.2	0.001 U		0.001 U		0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U		0.001 U		0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U		0.001 U		0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U		0.001 U		0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U		0.001 U		0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U		0.001 U		0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U		0.001 U		0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U		0.001 U		0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U		0.01 U		0.025 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U		0.01 U		0.05 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U		0.01 U		0.05 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U		0.01 U		0.025 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U		0.001 U		0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U		0.001 U		0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U		0.001 U		0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U		0.001 U		0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U		0.005 U		0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U		0.001 U		0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U		0.001 U		0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U		0.001 U		0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U		0.001 U		0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U		0.001 U		0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U		0.001 U		0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U		0.001 U		0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U		0.001 U		0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U		0.001 U		0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U		0.001 U		0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U		0.001 U		0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U		0.001 U		0.005 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U		0.01 U		0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U		0.001 U		0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U		0.001 U		0.005 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U		0.005 U		0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U		0.001 U		0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U		0.001 U		0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U		0.001 U		0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U		0.001 U		0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U		0.001 U		0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U		0.001 U		0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U		0.001 U		0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U		0.001 U		0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U		0.001 U		0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U		0.002 U		0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.036 J		0.037 J		0.101 J
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U		0.05 U		-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00062 J		0.00063 J		0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00055 J		0.00055 J		-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0076		0.0077		0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.0076		0.0062		-
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.23		0.22		0.119
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.22		0.22		-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U		0.001 U		0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U		0.001 U		-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.00039 J		0.0005 J		0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.00033 J		0.0004 J		-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U		0.005 U		0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U		0.005 U		-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.0088		0.0086		0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.0093		0.0088		-
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.0031		0.0031		0.002 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.0019 J		0.0025		-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	2.1		2.1		0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	1.9		1.7		-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U		0.003 U		0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U		0.003 U		-
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	1.5 nd		1.5 nd		0.023 J
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	1.5 nd		1.5 nd		0.426
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U		0.0002 U		0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U		0.0002 U		-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.0067 J		0.0065 J		0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.0066 J		0.007 J		-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U		0.005 U		0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U		0.005 U		-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U		0.0002 U		0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U		0.0002 U		

Shallow MW-4-02	Shallow MW-4-02	Shallow MW-4-02	Shallow MW-4-02	Shallow MW-4-02
GW-12636-120511-JY-403	GW-12636-120511-JY-404	GW-12636-032714-SSH-1413	GW-12636-061014-SSH-1428	GW-12636-090914-SSH-1431
12/5/2011	12/5/2011	3/27/2014	6/10/2014	9/9/2014
-	-	-	-	-
(Duplicate)				

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

-- Not analyzed.

CRA 012636Conforti20-ATTC1_2

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
MW-4-02
GW-12636-090914-SSH-1432
9/9/2014
(Duplicate)

Shallow
MW-4-02
GW-120914-12636-SSH-1440
12/9/2014
-

Shallow
MW-4-02
GW-12636-032515-SSH-15003
3/25/2015
-

Shallow
MW-17-13
GW-12636-032614-SSH-1410
3/26/2014
-

Shallow
MW-17-13
GW-12636-061014-SSH-1429
6/10/2014
-

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
			Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U	0.001 U	-
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U	0.001 U	-
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U	0.001 U	-
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U	0.001 U	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U	0.001 U	-
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U	0.001 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U	0.001 U	-
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U	0.001 U	-
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U	0.001 U	-
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U	0.001 U	-
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U	0.001 U	-
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U	0.001 U	-
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U	0.001 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U	0.01 U	-
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U	0.01 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U	0.01 U	-
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.01 U	0.01 U	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U	0.001 U	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U	0.001 U	-
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U	0.001 U	-
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U	0.001 U	-
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U	0.005 U	-
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U	0.001 U	-
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U	0.001 U	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U	0.001 U	-
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U	0.001 U	-
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U	0.001 U	-
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U	0.001 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U	0.001 U	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U	0.001 U	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U	0.001 U	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U	0.001 U	-
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U	0.005 U	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U	0.001 U	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U	0.001 U	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U	0.001 U	-
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U	0.001 U	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U	0.001 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U	0.001 U	-
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U	0.001 U	-
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U	0.002 U	-
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	0.023 J	0.088	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U	0.05 U	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U	0.00077 J	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U	0.00083 J	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.005 U	0.01	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.005 U	0.012 ^{NS}	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	0.077 J	0.15	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.077 J	0.15	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	0.001 U	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	0.001 U	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00035 J	0.001 U	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.0004 J	0.001 U	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	0.0016 J	0.005 U	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.0014 J	0.005 U	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	0.007 U	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	0.007 U	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	0.002 U	0.0026	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.002 U	0.00093 J	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	0.037 J	5.8	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U	5.9 ^{NS}	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.0044 J	0.015 U	0.0026 J	0.6	1.8 ^{NS}
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.015 U	0.015 U	0.00099 J	0.58 ^{NS}	1.7 ^{NS}
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U	0.0002 U	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U	0.0002 U	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	0.02 U	0.0033 J	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.0025 J	0.0039 J	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U	0.005 U	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U	0.005 U	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U	0.000023 J	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U	0.000018 J	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U	0.001 U	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U	0.001 U	-
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U	0.004 U	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U	0.004 U	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	0.02 U	0.007 J	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U	0.0087 J	-
General Chemistry														
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U	0.0050 U	-
Cyanide (total)	mg/L	-	0.2	-	0.2	-	0.0052	-	-	-	-	-	-	-

Shallow_or_Deep:	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Location:	MW-17-13	MW-17-13	MW-17-13	MW-18-13	MW-18-13
Sample ID:	GW-12636-091014-SSH-1435	GW-121014-12636-SSH-1444	GW-12636-032615-SSH-15009	GW-12636-032714-SSH-1415	GW-12636-061014-SSH-1430
Sample Date:	9/10/2014	12/10/2014	3/26/2015	3/27/2014	6/10/2014
Sample Depth:	-	-	-	-	-

Notes:

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

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Location:	MW-18-13	MW-18-13	MW-18-13	MW-19-13	MW-19-13
Sample ID:	GW-12636-091014-SSH-1436	GW-121014-12636-SSH-1445	GW-12636-032615-SSH-15007	GW-12636-032714-SSH-1414	GW-12636-060914-SSH-1424
Sample Date:	9/10/2014	12/10/2014	3/26/2015	3/27/2014	6/9/2014
Sample Depth:	-	-	-	-	-

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater		Non-Residential Groundwater				
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria		Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation					
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	0.001 U	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	0.001 U	0.001 U	-
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	0.001 U	0.001 U	-
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	0.001 U	0.001 U	-
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	0.001 U	0.001 U	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	0.001 U	0.001 U	-
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	0.001 U	0.001 U	-
1,2,4-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	0.001 U	0.001 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	0.001 U	0.001 U	-
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	0.001 U	0.001 U	-
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	0.001 U	0.001 U	-
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	0.001 U	0.001 U	-
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	0.001 U	0.001 U	-
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	0.001 U	0.001 U	-
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	0.001 U	0.001 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	0.01 U	0.01 U	-
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	0.01 U	0.01 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	0.01 U	0.01 U	-
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	0.01 U	0.01 U	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	0.001 U	0.001 U	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	0.001 U	0.001 U	-
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	0.001 U	0.001 U	-
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	0.001 U	0.001 U	-
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	0.005 U	0.005 U	-
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	0.001 U	0.001 U	-
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	0.001 U	0.001 U	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	0.001 U	0.001 U	-
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	0.001 U	0.001 U	-
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	0.001 U	0.001 U	-
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	0.001 U	0.001 U	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	0.001 U	0.001 U	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	0.001 U	0.001 U	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	0.001 U	0.001 U	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	0.001 U	0.001 U	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	0.001 U	0.001 U	-
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	0.005 U	0.005 U	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	0.001 U	0.001 U	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	0.001 U	0.001 U	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	0.001 U	0.001 U	-
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	0.001 U	0.001 U	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	0.001 U	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	0.001 U	0.001 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	0.001 U	0.001 U	-
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	0.001 U	0.001 U	-
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	0.002 U	0.002 U	-
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U	0.054	-
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.05 U	0.05 U	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U	0.002 U	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.002 U	0.002 U	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.0036 J	0.005 U	-
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.0042 J	0.005 U	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	0.17	0.1	-
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.18	0.11	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	0.001 U	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	0.001 U	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00032 J	0.001 U	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.00024 J	0.001 U	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	0.005 U	0.005 U	-
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U	0.005 U	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	0.007 U	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	0.007 U	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	0.002 U	0.002 U	-
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.002 U	0.002 U	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U	0.12	-
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U	0.1 U	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.17	0.36	0.26	0.11	0.092
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.18	0.37	0.27	0.11	0.11
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U	0.0002 U	-
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	0.0002 U	0.0002 U	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	0.0017 J	0.02 U	-
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.0025 J	0.02 U	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U	0.005 U	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U	0.005 U	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U	0.000024 J	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U	0.000027 J	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U	0.001 U	-
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U	0.001 U	-
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U	0.004 U	-
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U	0.004 U	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	0.02 U	0.0072 J	-
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.02 U	0.0069 J	-
General Chemistry														
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	0.0050 U	0.0050 U	-
Cyanide (total)	mg/L	-	0.2	-	0.2	-	0.0052	-	-	-	-	-	-	-

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
MW-19-13
GW-12636-090914-SSH-1433
9/9/2014
-

Shallow
MW-19-13
GW-120914-12636-SSH-1441
12/9/2014
-

Shallow
MW-19-13
GW-120914-12636-SSH-1442
12/9/2014
(Duplicate)

Shallow
MW-19-13
GW-12636-032615-SSH-15012
3/26/2015
-

Shallow
MW-20-13
GW-12636-032614-SSH-1409
3/26/2014
-

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
										Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	-	-	-	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	-	-	-	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	-	-	-	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	-	-	-	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	-	-	-	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	-	-	-	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	-	-	-	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	-	-	-	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	-	-	-	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	-	-	-	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	-	-	-	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	-	-	-	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	-	-	-	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	-	-	-	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	-	-	-	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	-	-	-	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	-	-	-	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	-	-	-	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	-	-	-	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	-	-	-	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	-	-	-	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	-	-	-	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	-	-	-	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	-	-	-	0.005 U	0.0035 J
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	-	-	-	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	-	-	-	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	-	-	-	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	-	-	-	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	-	-	-	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	-	-	-	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	-	-	-	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	-	-	-	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	-	-	-	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	-	-	-	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	-	-	-	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	-	-	-	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	-	-	-	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	-	-	-	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	-	-	-	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	-	-	-	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	-	-	-	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	-	-	-	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	-	-	-	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	-	-	-	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	0.05 U	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-	0.00012 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	0.00024 J	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	-	-	0.2	-	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	0.0042 J	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	-	-	-	-	0.18
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.12	-	0.17
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.001 U	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	-	-	-	-	0.0028 J
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U	-	0.0028 J
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	-	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	-	-	-	-	0.0003 J
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.002 U	-	0.00052 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	-	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.28	0.19	0.2	-	0.0062 J
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.27	0.2	0.19	0.14	0.0056 J
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	0.0002 U	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	-	-	-	-	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	0.013 J	-	0.02 U
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	0.005 U	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	0.0002 U	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	-	0.001 U	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	-	-	-	-	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	-	0.004 U	-	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	-	-	-	-	0.02 U
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	-	0.016 J	-	0.02 U
General Chemistry														
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	-	-	-	0.0050 U	0.0050 U
Cyanide (total)	mg/L	-	0.2	-	0.2	-	0.0052	-	-	-	-	-	-	-

Shallow_or_Deep:	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Location:	MW-20-13	MW-20-13	MW-20-13	MW-20-13	PFW-2
Sample ID:	GW-12636-060914-SSH-1423	GW-12636-091014-SSH-1434	GW-121014-12636-SSH-1443	GW-12636-032515-SSH-15002	GW-12636-091211-JY-004
Sample Date:	6/9/2014	9/10/2014	12/10/2014	3/25/2015	9/12/2011
Sample Depth:	-	-	-	-	(8.19-9.38) in BGS

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

UJ - Not detected; associated reporting limit is estimated.

-- Not analyzed.

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
PFW-2
GW-12636-120310-BW-012 12/3/2010
Shallow
PFW-2
GW-12636-120310-BW-013 12/3/2010
Shallow
PFW-2
GW-12636-051311-SSH-111 5/13/2011
Shallow
PFW-2
GW-12636-120611-JY-411 12/6/2011
Shallow
PFW-2
GW-12636-032614-SSH-1408 3/26/2014

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U	0.005 U	0.003 J
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.2 U	0.2 U	0.2 U	0.05 U	0.37
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.002 U	0.002 U	0.00019 J	0.00019 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0032 J	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	-	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.0585 J	0.0574 J	0.0473 J	0.046 J	0.042 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	-	0.037 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.002 U	0.002 U	0.002 U	0.002 U	0.002
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	-	0.00025 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	0.701	0.684	0.541	0.36	1.3
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	0.23
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	-	-	-	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.963	0.91	0.581	0.54	0.66 J
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	-	-	-	0.97 J ^{est}
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.000							

Shallow or Deep:	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Location:	PFW-2	PFW-2	PFW-2	PFW-2	PFW-4
Sample ID:	GW-12636-060914-SSH-1421	GW-12636-090914-SSH-1429	GW-120914-12636-SSH-1437	GW-12636-032715-SSH-15016	GW-12636-091211-JY-002
Sample Date:	6/9/2014	9/9/2014	12/9/2014	3/27/2015	9/12/2011
Sample Depth:	-	-	-	-	(4.51-9.01) in BGS

Notes:

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

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow
PFW-4
GW-12636-051111-SSH-102
5/11/2011
-

Shallow
PFW-4
GW-12636-051111-SSH-103
5/11/2011
(Duplicate)

Shallow
PFW-4
GW-12636-061014-SSH-1425
6/10/2014
-

Shallow
PFW-4
GW-12636-061014-SSH-1426
6/10/2014
(Duplicate)

Shallow
PFW-4
GW-12636-032615-SSH-15006
3/26/2015
-

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.00087 J	0.0009 J	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluoro-trichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	3.76	3.87	-	-	0.038 J
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	0.017 J	0.018 J	0.012 J
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.0022	0.0021	-	-	0.00021 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	0.00087 J	0.00079 J	0.00017 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0034 J	0.0035 J	-	-	0.0052
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	0.005 U	0.005 U	0.0043 J
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.0318 J	0.0321 J	-	-	0.024 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	0.024 J	0.024 J	0.024 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.00066 J	0.001 U	-	-	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.0163	0.0164	-	-	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.0022 J	0.0024 J	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	0.007 U	0.007 U	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.0267	0.0269	-	-	0.0023 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	0.0051 U	0.0049 U	0.002 U
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	5.62	5.71	-	-	0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	0.1 U	0.1 U	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.0356 RD		-	-	0.0027 J
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.0962	0.0982	-	-	0.046
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	-	0.052	0.052	0.049
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0							

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:

Sample Location:

Sample ID:

Sample Date:

Sample Depth:

Shallow

PFW-9

GW-12636-091211-JY-006

9/12/2011

(8.76-8.91) in BGS

Shallow

PFW-9

GW-12636-120210-BW-008

12/2/2010

-

Shallow

PFW-9

GW-12636-120210-BW-009

12/2/2010

(Duplicate)

Shallow

PFW-9

GW-12636-051311-SSH-112

5/13/2011

-

Shallow

PFW-9

GW-12636-120611-JY-410

12/6/2011

-

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria								
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.005 U	0.005 UJ	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.05 U	0.05 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.05 U	0.05 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals														
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.05 U	1.3 J	0.524 J	0.2 U	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	-	-	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.00036 J	0.00026 J	0.002 U	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	-	-	-	-
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.0033 J	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	-	-	-	-
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.05 J	0.0367 J	0.0343 J	0.0193 J	0.037 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-	-	-	-
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.002 J	0.007 U	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	-	-	-	-
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.0004 J	0.0075 J	0.0035 J	0.002 U	0.002 U
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	-	-	-	-
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	2	7.78 J	2.93 J	0.232	0.089 J
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	-	-	-	-
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.41	0.0519 J	0.0208 J	0.008 J	0.015 U
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	-	-	-	-
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 UJ	0.0002 UJ	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	-	-	-	-
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.02 U	0.0034 J	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	-	-	-	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	-	-	-	-
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	-	-	-	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.00054 J
Thallium (dissolved)														

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:	Shallow	Shallow	Shallow	Shallow	Shallow
Sample Location:	PFW-9	PFW-9	PFW-9	PFW-9	PFW-9
Sample ID:	GW-12636-032614-SSH-1406	GW-12636-060914-SSH-1422	GW-12636-090914-SSH-1430	GW-120914-12636-SSH-1438	GW-12636-032715-SSH-15018
Sample Date:	3/26/2014	6/9/2014	9/9/2014	12/9/2014	3/27/2015
Sample Depth:	-	-	-	-	-

Parameters:	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater		Non-Residential Groundwater					
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria		Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation						
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	-	-	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	-	-	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	-	-	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	-	-	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	-	-	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	-	-	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	-	-	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	-	-	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	-	-	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	-	-	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	-	-	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	-	-	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	-	-	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	-	-	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	-	-	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	-	-	-	-	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	-	-	-	-	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	-	-	-	-	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	-	-	-	-	0.0017 J
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	-	-	-	-	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	-	-	-	-	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	-	-	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	-	-	-	-	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	-	-	-	-	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	-	-	-	-	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	-	-	-	-	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	-	-	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	-	-	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	-	-	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	-	-	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	-	-	-	-	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	-	-	-	-	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	-	-	-	-	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	-	-	-	-	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.001 U	-	-	-	-	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	-	-	-	-	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	-	-	-	-	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	-	-	-	-	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	-	-	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	-	-	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	-	-	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	-	-	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	-	-	-	-	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	-	-	-	-	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	-	-	-	-	0.002 U
Metals															
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-	-	-	-	0.05 U
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	0.05 U	-	-	-	-	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00021 J	-	-	-	-	0.00023 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00017 J	-	-	-	-	0.00016 J
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.005 U	-	-	-	-	0.005 U
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	0.005 U	-	-	-	-	0.005 U
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.013 J	-	-	-	-	0.036 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	0.021 J	-	-	-	-	0.036 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	-	-	-	-	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	-	-	-	-	0.005 U
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	0.005 U	-	-	-	-	0.005 U
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.007 U	-	-	-	-	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	-	-	-	-	0.007 U
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.0021	-	-	-	-	0.00081 J
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	0.00062 J	-	-	-	-	0.0011 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	0.084 J	-	-	-	-	0.1 U
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	0.21	-	-	-	-	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.0028 J	0.015 U	0.21	0.022	0.015 U	0.015 U
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	0.0041 J	0.0011 J	0.22	0.023	0.015 U	0.015 U
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	-	-	-	-	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.02 U	-	-	-	-	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	0.02 U	-	-	-	-	0.0008 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	-	-	-	-	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0002 U	-	-	-	-	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	0.001 U	-	-	-	-	0.001 U
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	0.004 U	-	-	-	-	0.0031 J
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	0.004 U	-	-			

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

UJ - Not detected; associated reporting limit is estimated.
-- Not analyzed.

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Shallow PFW-10	Shallow PFW-10	Shallow PFW-10	Shallow PFW-10	Shallow PFW-10
GW-12636-091311-YJ-008	GW-12636-120310-BW-018	GW-12636-051311-SSH-114	GW-12636-120611-YJ-407	GW-12636-032614-SSH-140
9/13/2011	12/3/2010	5/13/2011	12/6/2011	3/26/2014
(3.87-8.11) in BGS	-	-	-	-

Notes:

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

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

			Residential Drinking Water		Non-Residential Drinking Water		Groundwater/	Residential Groundwater	Non-Residential Groundwater
			Health Based Criteria	Health Based Criteria	Health Based Criteria	Health Based Criteria	Surface Water Interface Criteria	Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation
Parameters:	Units	Background Concentrations - Perched Aquifer	Aesthetic Criteria	Based Criteria	Aesthetic Criteria	Based Criteria	Criteria	Criteria	Criteria
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170

CRA 012636Conforti20-ATTC1_2

HISTORIC SHALLOW GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:

Sample Location:

Sample ID:

Sample Date:

Sample Depth:

Shallow PFW-11 GW-12636-120611-JY-408 12/6/2011	Shallow PFW-11 GW-12636-032614-SSH-1403 3/26/2014	Shallow PFW-11 GW-12636-032515-SSH-15001 3/25/2015
-	-	-

Parameters: Volatile Organic Compounds	Units	Background Concentrations - Perched Aquifer	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation			
			Aesthetic Criteria	Health Based Criteria	Aesthetic Criteria	Health Based Criteria						
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190	0.002 U	0.002 U	0.002 U
Metals												
Aluminum	mg/L	10.5	0.05	0.3	0.05	4.1	-	-	-	0.077	0.05 U	0.059
Aluminum (dissolved)	mg/L	3.52	0.05	0.3	0.05	4.1	-	-	-	-	0.05 U	0.05 U
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.00027 J	0.00021 J	0.002 U
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	-	0.00016 J	0.002 U
Arsenic	mg/L	0.01	0.01	-	0.01	-	0.01	-	-	0.005 U	0.005 U	0.0043 J
Arsenic (dissolved)	mg/L	0.0072	0.01	-	0.01	-	0.01	-	-	-	0.005 U	0.0039 J
Barium	mg/L	0.15	2	-	2	-	-	-	-	0.073 J	0.052 J	0.044 J
Barium (dissolved)	mg/L	0.1	2	-	2	-	-	-	-	-	0.054 J	0.042 J
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	-	0.001 U	0.001 U
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	0.001 U	0.001 U
Chromium	mg/L	0.031	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.0012 J
Chromium (dissolved)	mg/L	0.010	0.1	-	0.1	-	-	-	-	-	0.005 U	0.0011 J
Cobalt	mg/L	0.008	0.04	-	0.1	-	0.1	-	-	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	-	0.007 U	0.00098 J
Copper	mg/L	0.01	1	-	1	-	-	-	-	0.0044	0.0008 J	0.0019 J
Copper (dissolved)	mg/L	0.0074	1	-	1	-	-	-	-	-	0.0012 J	0.0017 J
Iron	mg/L	32.58	0.3	2.0	0.3	5.6	-	-	-	0.096 J	0.1 U	0.067 J
Iron (dissolved)	mg/L	4.0	0.3	2.0	0.3	5.6	-	-	-	-	0.1 U	0.1 U
Lead	mg/L	0.0035	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	-	0.003 U	0.0023 J
Manganese	mg/L	0.963	0.05	0.86	0.05	2.5	-	-	-	0.012 J	0.0062 J	0.015
Manganese (dissolved)	mg/L	0.547	0.05	0.86	0.05	2.5	-	-	-	-	0.0041 J	0.0085 J
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	-	0.0002 U	0.0002 U
Nickel	mg/L	0.026	0.1	-	0.1	-	-	-	-	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	0.0185	0.1	-	0.1	-	-	-	-	-	0.02 U	0.0023 J
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	-	0.005 U	0.005 U
Silver	mg/L	0.00053	0.034	-	0.098	-	0.0002	-	-	0.0002 U	0.000011 J	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	-	0.000014 J	0.0002 U
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.001 U	0.00018 J
Thallium (dissolved)	mg/L	0.0012	0.002	-	0.002	-	0.0037	-	-	-	0.001 U	0.00024 J
Vanadium	mg/L	0.026	0.0045	-	0.062	-	0.027	-	-	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	0.0089	0.0045	-	0.062	-	0.027	-	-	-	0.004 U	0.004 U
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	0.022	0.02 U	0.013 J
Zinc (dissolved)	mg/L	0.051	2.4	-	5	-	-	-	-	-	0.0059 J	0.02 U
General Chemistry												
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-	0.0050 U	0.0050 U	0.0050 U
Cyanide (total)	mg/L	-	0.2	-	0.2	-	0.0052	-	-	0.0050 U	-	-
Notes:												
J - Estimated concentration.												
U - Not detected at the associated reporting limit.												
UJ - Not detected; associated reporting limit is estimated.												
-- Not analyzed.												

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Deep
B-27D
GW-12636-091411-JY-018
9/14/2011
(77.89-78.54) in BGS

Deep
B-27D
GW-12636-120310-BW-017
12/3/2010
-

Deep
B-27D
GW-12636-051211-SSH-108
5/12/2011
-

Deep
B-27D
GW-12636-120811-JY-423
12/8/2011
-

Deep
B-27D
GW-12636-032714-SSH-1416
3/27/2014
-

Parameters:	Units	Background Concentrations - Drift Aquifer a	Residential Drinking Water			Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h				
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e								
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.01 U	0.05 U	0.05 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.01 U	0.05 U	0.05 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190	-	-	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390	-	-	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U	0.005 U	0.0036 J
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8	-	-	-	-	-
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000	-	-	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31	-	-	-	-	-
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600	-	-	-	-	-
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000	-	-	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Deep
B-27D
GW-12636-032715-SSH-15013
3/27/2015
-
Deep
MW-15-10
GW-12636-091311-JY-011
9/13/2011
(78.13-83.12) in BGS
Deep
MW-15-10
GW-12636-091311-JY-013
9/13/2011
(78.13-83.12) in BGS
(Duplicate)
Deep
MW-15-10
GW-12636-120210-BW-004
12/2/2010
-
Deep
MW-15-10
MW-15-10
12/2/2010
(other)

Parameters:	Units	Background Concentrations - Drift Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e			
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190
Metals									
Aluminum	mg/L	5.3	0.05	0.3	0.05	4.1	-	-	-
Aluminum (dissolved)	mg/L	0.133	0.05	0.3	0.05	4.1	-	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-
Arsenic	mg/L	0.102	0.01	-	0.01	-	0.01	-	-
Arsenic (dissolved)	mg/L	0.089	0.01	-	0.01	-	0.01	-	-
Barium	mg/L	0.47	2	-	2	-	-	-	-
Barium (dissolved)	mg/L	0.553	2	-	2	-	-	-	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-
Chromium	mg/L	0.007	0.1	-	0.1	-	-	-	-
Chromium (dissolved)	mg/L	0.011	0.1	-	0.1	-	-	-	-
Cobalt	mg/L	0.007	0.04	-	0.1	-	0.1	-	-
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-
Copper	mg/L	0.015	1	-	1	-	-	-	-
Copper (dissolved)	mg/L	0.04	1	-	1	-	-	-	-
Iron	mg/L	7.9	0.3	2.0	0.3	5.6	-	-	-
Iron (dissolved)	mg/L	3.62	0.3	2.0	0.3	5.6	-	-	-
Lead	mg/L	0.003	0.004	-	0.004	-	-	-	-
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-
Manganese	mg/L	0.252	0.05	0.86	0.05	2.5	-	-	-
Manganese (dissolved)	mg/L	0.292	0.05	0.86	0.05	2.5	-	-	-
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056
Molybdenum	mg/L	-	0.073	-	0.21	-	3.2	-	-
Molybdenum (dissolved)	mg/L	-	0.073	-	0.21	-	3.2	-	-
Nickel	mg/L	0.02	0.1	-	0.1	-	-	-	-
Nickel (dissolved)	mg/L	0.022	0.1	-	0.1	-	-	-	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-
Silver	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-
Thallium (dissolved)	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-
Vanadium	mg/L	0.015	0.0045	-	0.062	-	0.027	-	-
Vanadium (dissolved)	mg/L	0.004	0.0045	-	0.062	-	0.027	-	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-
Zinc (dissolved)	mg/L	0.0521	2.4	-	5	-	-	-	-
General Chemistry									
Cyanide (amenable)	mg/L	-	0.2	-	0.2	-	-	-	-
Cyanide (total)	mg/L	-	0.2	-	0.2	-	0.0052	-	-

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Deep
MW-15-10
GW-12636-051411-SSH-118 5/14/2011
Deep
MW-15-10
GW-12636-120711-JY-417 12/7/2011
Deep
MW-15-10
GW-12636-032714-SSH-1417 3/27/2014
Deep
MW-15-10
W-12636-042915-SSH-1521 4/29/2015
Deep
MW-16-10
GW-12636-091411-JY-014 9/14/2011
(18.21-72.11) in BGS

Parameters:	Units	Background Concentrations - Drift Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h					
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e								
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.00072 J	0.01 U	0.013	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.025 U	0.01 U	0.0019 J	0.0038 J	
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190	-	-	-	-	
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.00024 J	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390	-	-	-	-	
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.0022	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.005 U	0.005 U	0.005 U	0.00074 J
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.006	0.00061 J	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.0012	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8	-	-	-	-	-
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000	-	-	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.001 U	0.001 U	0.005 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31	-	-	-	-	-
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600	-	-	-	-	-
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000	-	-	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.00018 J	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100	0.001 U	0.001 U	0.001 U	0.001 U	

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow_or_Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Deep MW-16-10 GW-12636-120210-BW-005 12/2/2010 -
Deep MW-16-10 GW-12636-051411-SSH-119 5/14/2011 -
Deep MW-16-10 GW-12636-051411-SSH-120 5/14/2011 (Duplicate)
Deep MW-16-10 GW-12636-120711-JY-416 12/7/2011 -

Parameters:	Units	Residential Drinking Water				Non-Residential Drinking Water		Groundwater/ Surface Water		Residential Groundwater Volatilization to Indoor Air Inhalation		Non-Residential Groundwater Volatilization to Indoor Air Inhalation		(other)	(summary)
		Background Concentrations - Drift Aquifer a	Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e	Interface Criteria f	Indoor Air Inhalation g	Indoor Air Inhalation h						
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96	-	0.001 U	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	0.005 U	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180	-	0.001 U	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.0012 J	0.005 U	0.00066 J	0.00066 J	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.005 U	0.05 U	0.05 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25	-	0.005 U X	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-	-	0.001 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.05 U	0.005 U	0.05 U	0.05 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.006 J	0.02 U	0.025 U	0.025 U	0.01 U	0.01 U
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190	-	0.005 U Z	-	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390	-	0.001 U	-	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.0022	0.0022	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 U	0.001 U	0.00029 J	0.00029 J	0.001 J	0.001 J
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.00055 J	0.001 U	0.01	0.0099	0.00057 J	0.00057 J
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.00097 J	0.00094 J	0.001 U	0.001 U
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-	-	0.001 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 UJ	0.005 U S	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8	-	0.005 U	-	-	-	-
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000	-	0.005 U	-	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50	-	0.005 U	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	0.001 U	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	0.002 U	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31	-	0.005 U X	-	-	-	-
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	0.001 U	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	0.001 U	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	0.001 U	-	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570	-	0.005 U	-	-	-	-
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000	-	0.05 U	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600	-	0.005 U	-	-	-	-
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	0.001 U	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000	-	0.005 U	-	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0										

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or Deep:
Sample Location:
Sample ID:
Sample Date:
Sample Depth:

Deep MW-16-10 GW-12636-032714-SSH-1418 3/27/2014 -	Deep MW-16-10 GW-12636-032714-SSH-1419 3/27/2014 (Duplicate)	Deep MW-16-10 GW-12636-032615-SSH-15008 3/26/2015 -	Deep PFW-1 GW-12636-091311-JY-010 9/13/2011 (79.02-79.04) in BGS	Deep PFW-1 GW-12636-120210-BW-006 12/2/2010 -

Parameters:	Units	Background Concentrations - Drift Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/ Surface Water Interface Criteria f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h
			Aesthetic Criteria b	Health Based Criteria c	Aesthetic Criteria d	Health Based Criteria e			
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.0057	2.4	15
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7.3	-	-	1100	1100
Trifluorotrichloroethane (Freon 113)	mg/L	-	170	-	170	-	0.032	170	170
Vinyl chloride	mg/L	-	0.002	-	0.002	-	0.013	1.1	13
Xylenes (total)	mg/L	-	0.28	-	0.28	-	0.041	190	190

Metals														
Aluminum	mg/L	5.3	0.05	0.3	0.05	4.1	-	-	-	0.13	0.11	-	0.05 U	0.2 U
Aluminum (dissolved)	mg/L	0.133	0.05	0.3	0.05	4.1	-	-	-	0.05 U	0.05 U	0.05 U	-	-
Antimony	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.002 U	-	0.002 U	0.00029 J
Antimony (dissolved)	mg/L	0.002	0.006	-	0.006	-	0.13	-	-	0.002 U	0.002 U	0.00071 J	0.002 U	-
Arsenic	mg/L	0.102	0.01	-	0.01	-	0.01	-	-	0.016	0.015	-	0.062	0.489 ^{RM}
Arsenic (dissolved)	mg/L	0.089	0.01	-	0.01	-	0.01	-	-	0.014	0.017	0.016	0.044	-
Barium	mg/L	0.47	2	-	2	-	-	-	-	0.47	0.48	-	0.14	0.201
Barium (dissolved)	mg/L	0.553	2	-	2	-	-	-	-	0.44	0.48	0.48	0.13	-
Beryllium	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	-	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001	0.004	-	0.004	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-
Cadmium	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	-	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001	0.005	-	0.005	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	-
Chromium	mg/L	0.007	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.005 U
Chromium (dissolved)	mg/L	0.011	0.1	-	0.1	-	-	-	-	0.005 U	0.005 U	0.005 U	0.005 U	-
Cobalt	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	0.007 U	-	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007	0.04	-	0.1	-	0.1	-	-	0.007 U	0.007 U	0.007 U	0.007 U	-
Copper	mg/L	0.015	1	-	1	-	-	-	-	0.002 U	0.002 U	-	0.002 U	0.002 U
Copper (dissolved)	mg/L	0.04	1	-	1	-	-	-	-	0.002 U	0.002 U	0.002 U	0.002 U	-
Iron	mg/L	7.9	0.3	2.0	0.3	5.6	-	-	-	0.48	0.47	-	2	17 ^{RM}
Iron (dissolved)	mg/L	3.62	0.3	2.0	0.3	5.6	-	-	-	0.28	0.34	0.23	1.4	-
Lead	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	-	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003	0.004	-	0.004	-	-	-	-	0.003 U	0.003 U	0.003 U	0.003 U	-
Manganese	mg/L	0.252	0.05	0.86	0.05	2.5	-	-	-	0.13	0.14	-	0.026 J	0.06
Manganese (dissolved)	mg/L	0.292	0.05	0.86	0.05	2.5	-	-	-	0.13	0.13	0.094	0.025	-
Mercury	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U	-	0.0002 U	0.0002 U J
Mercury (dissolved)	mg/L	0.0002	0.002	-	0.002	-	0.0000013	0.056	0.056	0.0002 U	0.0002 U	0.0002 U	0.0002 U	-
Molybdenum	mg/L	-	0.073	-	0.21	-	3.2	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	0.073	-	0.21	-	3.2	-	-	-	-	-	-	-
Nickel	mg/L	0.02	0.1	-	0.1	-	-	-	-	0.02 U	0.02 U	-	0.02 U	0.02 U
Nickel (dissolved)	mg/L	0.022	0.1	-	0.1	-	-	-	-	0.02 U	0.02 U	0.003 J	0.02 U	-
Selenium	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U	-	0.005 U	0.005 U
Selenium (dissolved)	mg/L	0.005	0.05	-	0.05	-	0.005	-	-	0.005 U	0.005 U	0.005 U	0.005 U	-
Silver	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.0005 U	0.00032 U	-	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	0.0002	0.034	-	0.098	-	0.0002	-	-	0.000001 J	0.0002 U	0.0002 U	0.0002 U	-
Thallium	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.001 U	-	0.001 U	0.001 U
Thallium (dissolved)	mg/L	0.001	0.002	-	0.002	-	0.0037	-	-	0.001 U	0.001 U	0.00026 J	0.001 U	-
Vanadium	mg/L	0.015	0.0045	-	0.062	-	0.027	-	-	0.004 U	0.004 U J	-	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	0.004	0.0045	-	0.062	-	0.027	-	-	0.004 U	0.004 U	0.004 U	0.004 U	-
Zinc	mg/L	0.039	2.4	-	5	-	-	-	-	0.02 U	0.0064 J	-	0.02 U	0.02 U
Zinc (dissolved)	mg/L	0.0521	2.4	-	5	-	-	-	-	0.02 U	0.02 U	0.02 U	0.02 U	-

HISTORIC DEEP GROUNDWATER RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Shallow, or, Deep: Deep
Sample Location: PFW-1
Sample ID: GW-12636-051311-SSH-116
Sample Date: 5/13/2011
Sample Depth: -

Deep PFW-1 GW-12636-120511-JY-402 12/5/2011 -

Deep PFW-1 GW-12636-032714-SSH-1412 3/27/2014 -

Deep PFW-1 GW-12636-032515-SSH-15004 3/25/2015 -

Deep PFW-1 GW-12636-032515-SSH-15005 3/25/2015 (Duplicate)

Parameters:	Units	Background Concentrations - Drift Aquifer a	Residential Drinking Water		Non-Residential Drinking Water		Groundwater/Surface Water Interface f	Residential Groundwater Volatilization to Indoor Air Inhalation g	Non-Residential Groundwater Volatilization to Indoor Air Inhalation h					
			Aesthetic Criteria b	Health Criteria c	Aesthetic Criteria d	Health Based Criteria e								
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	mg/L	-	0.077	-	0.32	-	-	15	96	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	0.2	-	0.2	-	0.089	660	1300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	0.0085	-	0.035	-	0.078	12	77	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.005	-	0.005	-	0.33	17	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	0.88	-	2.5	-	0.74	1000	2300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	0.007	-	0.007	-	0.13	0.2	1.3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	0.042	-	0.12	-	-	83	180	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	0.07	-	0.07	-	0.099	300	300	0.005 UJ	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	0.063	-	0.063	-	0.017	56	56	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	0.0002	-	0.0002	-	-	0.22	1.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	0.00005	-	0.00005	-	0.00057	2.4	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	0.6	-	0.6	-	0.013	160	160	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	0.005	-	0.005	-	0.36	9.6	59	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	0.005	-	0.005	-	0.23	16	36	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	0.072	-	0.072	-	0.045	61	61	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	0.0066	-	0.019	-	0.028	18	41	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	0.075	-	0.075	-	0.017	16	74	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	13	-	38	-	2.2	240000	240000	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	-	1	-	2.9	-	-	4200	8700	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	0.26	-	0.75	-	0.019	25	25	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	1.8	-	5.2	-	-	20000	20000	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.73	-	2.1	-	1.7	1000000	1000000	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U
Acrylonitrile	mg/L	-	0.0026	-	0.011	-	0.002	34	190	-	-	-	-	-
Benzene	mg/L	-	0.005	-	0.005	-	0.2	5.6	35	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	0.018	-	0.05	-	-	180	390	-	-	-	-	-
Bromodichloromethane	mg/L	-	0.08	-	0.08	-	-	4.8	37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	0.08	-	0.08	-	-	470	3100	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	0.01	-	0.029	-	0.035	4	9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.8	-	2.3	-	-	250	550	0.005 UJ	0.005 U	0.0026 J	0.005 U	0.005 U
Carbon tetrachloride	mg/L	-	0.005	-	0.005	-	0.045	0.37	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	0.1	-	0.1	-	0.025	210	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	0.43	-	1.7	-	1.1	5700	5700	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	0.08	-	0.08	-	0.35	28	180	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	0.26	-	1.1	-	-	8.6	45	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	0.07	-	0.07	-	0.62	93	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.08	-	0.08	-	-	14	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	1.7	-	4.8	-	-	220	300	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	0.03	-	0.086	-	-	8	8	-	-	-	-	-
Ethyl ether	mg/L	-	0.01	-	0.01	-	-	61000	61000	-	-	-	-	-
Ethylbenzene	mg/L	-	0.074	-	0.074	-	0.018	110	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	0.0073	-	0.021	-	0.0067	27	50	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	0.8	-	2.3	-	0.028	56	56	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	0.04	-	0.04	-	7.1	47000	47000	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Methylene chloride	mg/L	-	0.005	-	0.005	-	1.5	220	1400	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	0.52	-	1.5	-	0.011	31	31	-	-	-	-	-
N-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	0.28	-	0.28	-	0.041	190	190	-	-	-	-	-
Styrene	mg/L	-	0.1	-	0.1	-	0.08	170	310	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	0.19	-	0.19	-	-	260	570	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	3.9	-	11	-	-	1000000	1000000	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	0.049	-	0.049	-	-	2900	5600	-	-	-	-	-
tert-Butylbenzene	mg/L	-	0.08	-	0.23	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.005	-	0.005	-	0.06	25	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	0.095	-	0.27	-	11	6900	16000	-	-	-	-	-
Toluene	mg/L	-	0.79	-	0.79	-	0.27	530	530	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.1	-	0.1	-	1.5	85	200	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	0.005	-	0.005	-	0.2	2.2	4.9	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	2.6	-	7									

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION (ANNUAL)
- QUARTERLY MONITORING LOCATION
- STORM SEWER LINE
- SANITARY SEWER LINE
- M.H. MANHOLE
- STORM SEWER MONITORING LOCATION

SAMPLE LOCATION		SAMPLE DATE	
MW-17-13	3/26/2014	Arsenic	0.01
		Arsenic (dissolved)	0.012 (ABC)
		Iron (dissolved)	5.9 (AB)
		Lead	0.003 U
		Lead (dissolved)	-
		Manganese	0.6
		Manganese (dissolved)	0.58 (AB)
PARAMETER		RESULT (mg/L)	
		PARAMETER NOT ANALYZED	

Chemical Name	Background	A	B	C
Arsenic	0.01	0.01	0.01	0.01
Arsenic (dissolved)	0.0072	0.01	0.01	0.01
Iron	32.58	0.3 (2.0)	0.3 (5.6)	-
Iron (dissolved)	4	0.3 (2.0)	0.3 (5.6)	-
Lead	0.0035	0.004	0.004	-
Lead (dissolved)	0.003 U	0.004	0.004	-
Manganese	0.963	0.05 (0.86)	0.05 (2.5)	-
Manganese (dissolved)	0.547	0.05 (0.86)	0.05 (2.5)	-

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

- NOTES:
- THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
 - MANGANESE AND IRON ARE SCREENED AGAINST RESIDENTIAL/NONRESIDENTIAL AESTHETIC DRINKING WATER CRITERIA BUT MAY BE BELOW THE NONRESIDENTIAL HEALTH BASED DRINKING WATER CRITERIA.

MW-1	12/2/2010	5/13/2011	9/12/2011	12/7/2011	3/26/2014
Arsenic	0.0094	0.005 U	0.005 U	0.0065	0.005 U
Arsenic (dissolved)	-	-	-	-	0.005 U
Iron	3.59	0.857	1.2	0.24	0.55
Iron (dissolved)	-	-	-	-	0.1 U
Lead	0.0142 (AB)	0.0033	0.0033	0.003 U	0.0034
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	0.164	0.0567	0.4	0.025	0.038
Manganese (dissolved)	-	-	-	-	0.01 J

B-9	12/3/2010	5/11/2011	9/14/2011	12/7/2011	3/26/2014
Arsenic	0.0033 J	0.005 U	0.005 U	0.005 U	-
Arsenic (dissolved)	-	-	-	-	0.005 U
Iron	1.01	0.302	0.27	0.14	-
Iron (dissolved)	-	-	-	-	0.1 U
Lead	0.003 U	0.003 U	0.003 U	0.003 U	-
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	0.391	0.211	6.8 J (AB)	0.31	-
Manganese (dissolved)	-	-	-	-	0.047

MW-2	12/3/2010	5/13/2011	9/12/2011	12/6/2011	3/26/2014
Arsenic	0.0279 (ABC)	0.0046 J	0.01	0.005 U	0.0066
Arsenic (dissolved)	-	-	0.0075	0.005 U	0.0046 J
Iron	24.8	8.27	16	12	6
Iron (dissolved)	-	-	14 (AB)	11 (AB)	4
Lead	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	0.003 U	0.003 U	0.003 U
Manganese	2.12 (AB)	0.541	2.5 (AB)	2.6 (AB)	1.8 (AB)
Manganese (dissolved)	-	-	2.7 (AB)	2.6 (AB)	1.7 (AB)

MW-20-13	3/26/2014	MW-19-13	3/27/2014
Arsenic	0.005 U	Arsenic	0.005 U
Arsenic (dissolved)	0.005 U	Arsenic (dissolved)	0.005 U
Iron	0.1 U	Iron	0.12
Iron (dissolved)	0.1 U	Iron (dissolved)	0.1 U
Lead	0.003 U	Lead	0.003 U
Lead (dissolved)	0.003 U	Lead (dissolved)	0.003 U
Manganese	0.0062 J	Manganese	0.11
Manganese (dissolved)	0.0056 J	Manganese (dissolved)	0.11

PFW-2	12/3/2010	5/13/2011	9/12/2011	12/6/2011	3/26/2014
Arsenic	0.0032 J/0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	-	-	-	-	0.005 U
Iron	0.701/0.684	0.541	0.97	0.36	1.3
Iron (dissolved)	-	-	-	-	0.23
Lead	0.003 U/0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	0.963/0.91	0.581	1.4 (AB)	0.54	0.66 J
Manganese (dissolved)	-	-	-	-	0.97 J (AB)

PFW-9	12/2/2010	5/13/2011	9/12/2011	12/6/2011	3/26/2014
Arsenic	0.005 U/0.005 U	0.005 U	0.0033 J	0.005 U	0.005 U
Arsenic (dissolved)	-	-	-	-	0.005 U
Iron	7.78 J/2.93 J	0.232	2	0.089 J	0.084 J
Iron (dissolved)	-	-	-	-	0.21
Lead	0.003 U/0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	0.0519 J/0.0208 J	0.008 J	0.41	0.015 U	0.0028 J
Manganese (dissolved)	-	-	-	-	0.0041 J

MW-4-02	5/11/2011	9/13/2011	12/5/2011	3/27/2014
Arsenic	0.005 U	0.005 U	0.005 U/0.005 U	0.005 U
Arsenic (dissolved)	-	-	-	0.005 U
Iron	0.101	0.1 U	0.1 U/0.1 U	0.15
Iron (dissolved)	-	-	-	0.1 U
Lead	0.003 U	0.003 U	0.003 U/0.003 U	0.003 U
Lead (dissolved)	-	-	-	0.003 U
Manganese	0.0418	0.023 J	0.01 J/0.01 J	0.013 J
Manganese (dissolved)	-	-	-	0.003 J

MW-17-13	3/26/2014
Arsenic	0.01
Arsenic (dissolved)	0.012 (ABC)
Iron	5.8
Iron (dissolved)	5.9 (AB)
Lead	0.003 U
Lead (dissolved)	0.003 U
Manganese	0.6
Manganese (dissolved)	0.58 (AB)

MW-18-13	3/27/2014
Arsenic	0.005 U
Arsenic (dissolved)	0.005 U
Iron	0.1 U
Iron (dissolved)	0.1 U
Lead	0.003 U
Lead (dissolved)	0.003 U
Manganese	0.009 J
Manganese (dissolved)	0.0085 J

PFW-10	12/3/2010	5/13/2011	9/13/2011	12/6/2011	3/26/2014
Arsenic	0.005 U	0.005 U	0.005 U	0.005 U	-
Arsenic (dissolved)	-	-	-	-	0.005 U/0.005 U
Iron	0.1 U	0.1 U	0.1 U	0.1 U	-
Iron (dissolved)	-	-	-	-	0.1 U/0.1 U
Lead	0.003 U	0.003 U	0.003 U	0.003 U	-
Lead (dissolved)	-	-	-	-	0.003 U/0.003 U
Manganese	0.16	0.0719	0.047	0.024	-
Manganese (dissolved)	-	-	-	-	0.015/0.011 J

PFW-11	12/2/2010	5/13/2011	9/13/2011	12/6/2011	3/26/2014
Arsenic	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	-	-	-	-	0.005 U
Iron	2.73	0.202	0.1 U	0.096 J	0.1 U
Iron (dissolved)	-	-	-	-	0.1 U
Lead	0.0125 (AB)	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	0.056	0.0317	0.055 J	0.012 J	0.0062 J
Manganese (dissolved)	-	-	-	-	0.0041 J

PFW-4	5/11/2011	9/12/2011
Arsenic	0.0034 J/0.0035 J	0.0044 J
Arsenic (dissolved)	-	0.0034 J
Iron	5.62/5.71	0.66
Iron (dissolved)	-	0.1 U
Lead	0.0356 (AB)/0.0358 (AB)	0.013 (AB)
Lead (dissolved)	-	0.003 U
Manganese	0.0962/0.0982	0.031
Manganese (dissolved)	-	0.017

figure 3

SHALLOW GROUNDWATER MONITORING RESULTS SUMMARY FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY Genesee Township, Michigan



