CONESTOGA-ROVERS & ASSOCIATES

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January 4, 2012 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: Groundwater Monitoring Report September 2011 (Q3) and Revised Facility-Specific Background Development
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 results of groundwater sampling event conducted in September 2011 (Q3) at the former Peregrine Coldwater Road Site (Site) located at 1245E Coldwater Road in Genesee Township, near Flint, Michigan. The work was outlined in a work plan submitted to the Michigan Department of Natural Resources and Environment on September 7, 2010 and clarified in a follow up email dated October 28, 2010 (Work Plan). The scope of work for this sampling event was further revised in a letter titled Revised Monitoring Well Installation and Groundwater Monitoring Report dated May 9, 2011. Additional background sampling locations proposed in July 27, 2011 were approved by the Michigan Department of Environmental Quality (MDEQ) during the meeting held on September 14, 2011 and confirmed in a letter received on September 26, 2011 entitled Response to Conestoga-Rovers and Associates July 27, 2011 Letter.

This letter presents the Groundwater Monitoring Report (Report) and summarizes the status of the development of Facility-Specific Background values. This letter includes the following enclosures:

Figure 1	2011 Q3 Monitoring Locations
Figure 2	Shallow Investigative Groundwater Results
Figure 3	Deep Investigative Groundwater Results
Figure 4	Shallow and Deep Background Groundwater Results
Figure 5	Summary of Groundwater Exceedances - Historical (prior to 2010)
Figure 6	2011 Q4 Monitoring and Perimeter Investigation Locations

Table 1	Revised September 2011 Monitoring Well Network
Table 2	Summary of Turbidity Readings
Table 3	September 2011 Groundwater Results Summary
Table 4	2011 Q4 Monitoring Well Network
Attachment A	Stratigraphic and Installation Logs
Attachment B	Field Data Records
Attachment C	Data Validation Report
Attachment D	Historical Results for the 2010-2011 Monitoring Well Network

1.0 GROUNDWATER MONITORING

The September 2011 (Q3), groundwater monitoring event was conducted between September 13, 2011 and September 15, 2011. Table 1 presents the details of the September 2011 event and Figure 1 presents the monitoring locations.

As recommended in the May 9, 2011 letter, monitoring wells B-2D (drift aquifer) and B-19A (perched) were included in this quarter's sampling to collect data for use in generating Facility-Specific Background values. All 15 wells proposed for this sampling event were sampled via low-flow sampling methods. Additionally, drift aquifer monitoring wells B-20D and B-21D, and perched aquifer monitoring wells B-7, B-18A, and B-19AR were included in this sampling event to collect data for use in generating Facility-Specific Background values; as discussed during the September 14, 2011 meeting. Attachment A presents the stratigraphic and installation logs for the monitoring wells that were added to the program. During low flow purging, if the 5 NTU limit was not achieved with all reasonable efforts, samples were collected and analyzed for total and dissolved metals, otherwise samples were analyzed for total metals. In total, 11 of the 20 wells sampled had turbidities greater than 5 NTU (All the drift wells and four perched wells).

The field sampling records have been included in Attachment B and a summary of the turbidity readings is presented in Table 2.

Groundwater samples were analyzed for volatile organic compounds (VOCs), total metals, dissolved metals, as appropriate, and amenable cyanide.

The groundwater results were screened against the following generic risk-based cleanup criteria as specified in Part 201 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451, and identified in the DEQ RRD Operational Memorandum No. 1, updated March 25, 2011, pursuant to 1994 PA 451 as amended:

- Groundwater Contact Criteria
- Nonresidential Drinking Water Criteria
- Nonresidential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Residential Drinking Water Criteria
- Residential Groundwater Volatilization to Indoor Air Inhalation Criteria
- Ground/Surface Water Interface (GSI) Criteria

2.0 RESULTS AND CONCLUSIONS

2.1 SUMMARY

The September 2011 groundwater results are presented on Table 3. There were no exceedances of screening criteria at the locations sampled for VOCs. Metals exceeded screening criteria as follows:

- Six metals (aluminum, arsenic, iron, lead, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- Four metals (arsenic, mercury, silver and total chromium) and Cyanide (Total) were identified at concentrations exceeding GSI Criteria

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

Figures 2, 3, and 4 present summaries of the current exceedances of screening criteria in the shallow investigative monitoring locations, deep investigative monitoring locations, and background monitoring locations (shallow and deep), respectively Figure 5 presents a summary of the historical exceedances of screening criteria (prior to 2010).

The data validation report for the September 2011 results is presented in Attachment C. Attachment D presents a summary of all groundwater results collected to date.

2.2 SHALLOW INVESTIGATIVE GROUNDWATER MONITORING RESULTS

Constituents exceeding screening criteria in the September 2011 shallow investigative groundwater samples were as follows:

- Four metals (aluminum, iron, lead, and manganese) were identified at concentrations exceeding Residential and Nonresidential Drinking Water Criteria
- Cyanide (total) was identified at one location at concentrations exceeding GSI

When present, the shallow, saturated sand seams are intermittent and discontinuous in nature and are usually engineered permeable fill placed during the construction of the plant. Based on these factors, the perched groundwater does not appear to migrate to any significant extent. Please see Section 3.2 which describes the additional investigation to determine the extent of shallow groundwater migration, if any.

2.3 DEEP INVESTIGATIVE GROUNDWATER MONITORING RESULTS

Constituents exceeding screening criteria in the September 2011 deep investigative groundwater samples were as follows:

- Four metals (aluminum, arsenic, iron, and manganese) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria.
- Two metals (arsenic and mercury), were identified at a concentrations exceeding GSI Criteria. Mercury was only identified at one location MW-16-10.

The drift aquifer is separated from the shallow perched seams and historical Site operations by an extensive glacial clay till aquitard approximately 55 feet (ft) thick. As a result of the vertical and horizontal distance to the nearest possible drift aquifer outlet, the GSI pathway is likely not applicable for the deep groundwater.

2.4 BACKGROUND GROUNDWATER MONITORING RESULTS

Constituents exceeding screening criteria in the September 2011 background groundwater samples in the shallow groundwater were as follows:

- Four metals (aluminum, iron, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- Two metals (mercury and silver), were identified at concentrations exceeding GSI Criteria

Constituents exceeding criteria in the September 2011 background groundwater samples in the deep groundwater were as follows:

- Five metals (aluminum, arsenic, iron, manganese, and vanadium) were identified at concentrations exceeding Residential and/or Nonresidential Drinking Water Criteria
- Arsenic was identified at a concentration exceeding GSI Criteria

3.0 ADDITIONAL ACTIVITIES

3.1 Q4 2011 MONITORING EVENT

Table 4 presents the Q4 monitoring locations. The Q4 monitoring event was completed during the week of December 5, 2011. MDEQ was informed of the event via email on November 24, 2011. If during low flow purging, the 5 NTU limit could not be achieved with all reasonable efforts, samples were collected and analyzed for total and dissolved metals, otherwise samples will be analyzed for total metals. In total, 9 of the 20 wells sampled had turbidities greater than 5 NTU (6 deep wells and 3 shallow wells). PFW 4 was covered with surface water and could not be sampled.

3.2 FACILITY-SPECIFIC BACKGROUND DEVELOPMENT

In accordance with a letter dated July 27, 2011 and approved verbally by the MDEQ during the September 14, 2011 meeting, RACER is completing additional evaluation of background groundwater quality in the vicinity of the property. The letter proposed additional investigation of existing background monitoring wells that was to be completed in the remaining two monitoring events for 2011 (Q3 and Q4). Approval from the MDEQ was received verbally during the September 14, 2011 meeting, and as such the background sampling performed for Q3 was also included in the Q4 sampling. Table 4 presents the wells sampled during Q4 2011. MDEQ guidelines recommend a minimum of nine samples be used to develop

facility-specific background values. To date, nine shallow samples and seven deep samples have been collected for total metals. Additionally, seven shallow and six deep samples have been collected for dissolved metals.

The results of the facility-specific background evaluation completed by O'Brien & Gere Engineers, Inc., at the adjacent Coldwater Road Landfill to the north of the Site as documented in a letter dated July 13, 2009, will be used to provide a basis for comparison to the data collected under this program. The letter presents a background evaluation for the perched zone for dissolved metals. The facility-specific background values for the perched zone for dissolved iron and manganese presented in the letter are 1.73 milligrams per Litre (mg/L) and 1.31 mg/L, respectively. We will also consider other data from the Coldwater Road Landfill in our facility-specific evaluation, as appropriate.

3.3 PERIMETER/UTILITY CORRIDOR INVESTIGATION

In addition to sampling the existing background monitoring wells, the MDEQ requested in the September 14, 2011 meeting, followed up by a September 26, 2011 MDEQ letter, that additional shallow groundwater monitoring be conducted at the perimeter of the facility and at utility corridors in order to more fully investigate the potential for off-Site migration of impacted shallow groundwater. RACER proposed investigation activities in the November 11, 2011 response which was approved by MDEQ with clarifications via email correspondence. The following presents a summary of the completed scope for the shallow groundwater investigation at the facility perimeter and utility corridors.

- Two borings were advanced in the utility corridor locations (BH-101 and BH-111) as identified on Figure 6. A groundwater sample was collected from BH-101 and will be analyzed for total and dissolved metals and VOCs however insufficient water was present in BH-111 to collect a sample.
- Nine borings were advanced, to an average depth of 7-ft into clay, around the perimeter of the Site as identified on Figure 6. A groundwater sample was collected from BH-103 and will be analyzed for total and dissolved metals. Insufficient water was present at the remaining locations to collect a groundwater sample.
- The sewer near BH-101 was opened and no dry weather groundwater flow was observed. The sewer near BH-111 could not be located.
- In the event that exceedances are found as a result of the Geoprobe analysis, the installation of permanent additional monitoring wells may be proposed.

Based on the preliminary results of the utility corridor investigation, the utility corridor near BH-111 was not adequately located. The sewer line has been recently located. As such an additional boring will be required to locate the bedding surrounding the sewer line leaving the Site. A groundwater sample will be collected from the new location and analyzed for total and dissolved metals and VOCs. A dry weather sample, if present, will also be collected from this sewer line and analyzed for total and dissolved metals and VOCs. This work will be complete in conjunction with the Q1 2012 sampling event.

3.4 SUMMARY

The Q4 monitoring event was completed during the week of December 5, 2011. RACER completed the proposed background groundwater investigation and perimeter/utility corridor investigation during the Q4 monitoring event.

The Q1 2012 event will be conducted in March 2012 and will include the following:

- A borehole to be advanced into the sewer line bedding material in the area of BH-111 and collection of a groundwater sample to be analyzed for total and dissolved metals and VOCs
- A dry weather sewer sample, if present, from the sewer line in the area of BH-111 to be collected and analyzed for total and dissolved metals and VOCs
- Background samples from three deep wells (B-2D, B-20D and B-21D) to be analyzed for total and dissolved metals
- Background samples from two shallow wells (B-18A and B-19AR) to be analyzed for dissolved metals

As per the original monitoring program four quarters of monitoring have been completed. As a result the remainder of the monitoring wells are not proposed to be sampled in Q1 2012. However, pending receipt and evaluation of the Q4 2011 data, RACER may propose sampling additional wells in Q1 2012. RACER will notify the MDEQ prior to the Q1 2012 event if additional wells are proposed for sampling.

Following validation of the data from the Q1 2012 event, RACER will develop, using MDEQ guidance, Facility-Specific Background values. The groundwater data for the Site will be screened against the Facility-Specific Background values. A report presenting the results will be submitted to the MDEQ.

CONESTOGA-ROVERS & ASSOCIATES

January 4, 2012 Reference No. 012636

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

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Michael R. Tomka, P.E.

RC/ev/11
Encl.

cc: David Favero, RACER (PDF)
Grant Trigger, RACER (paper)

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STORM SEWER LINE
- SANITARY SEWER LINE

0 200 400ft

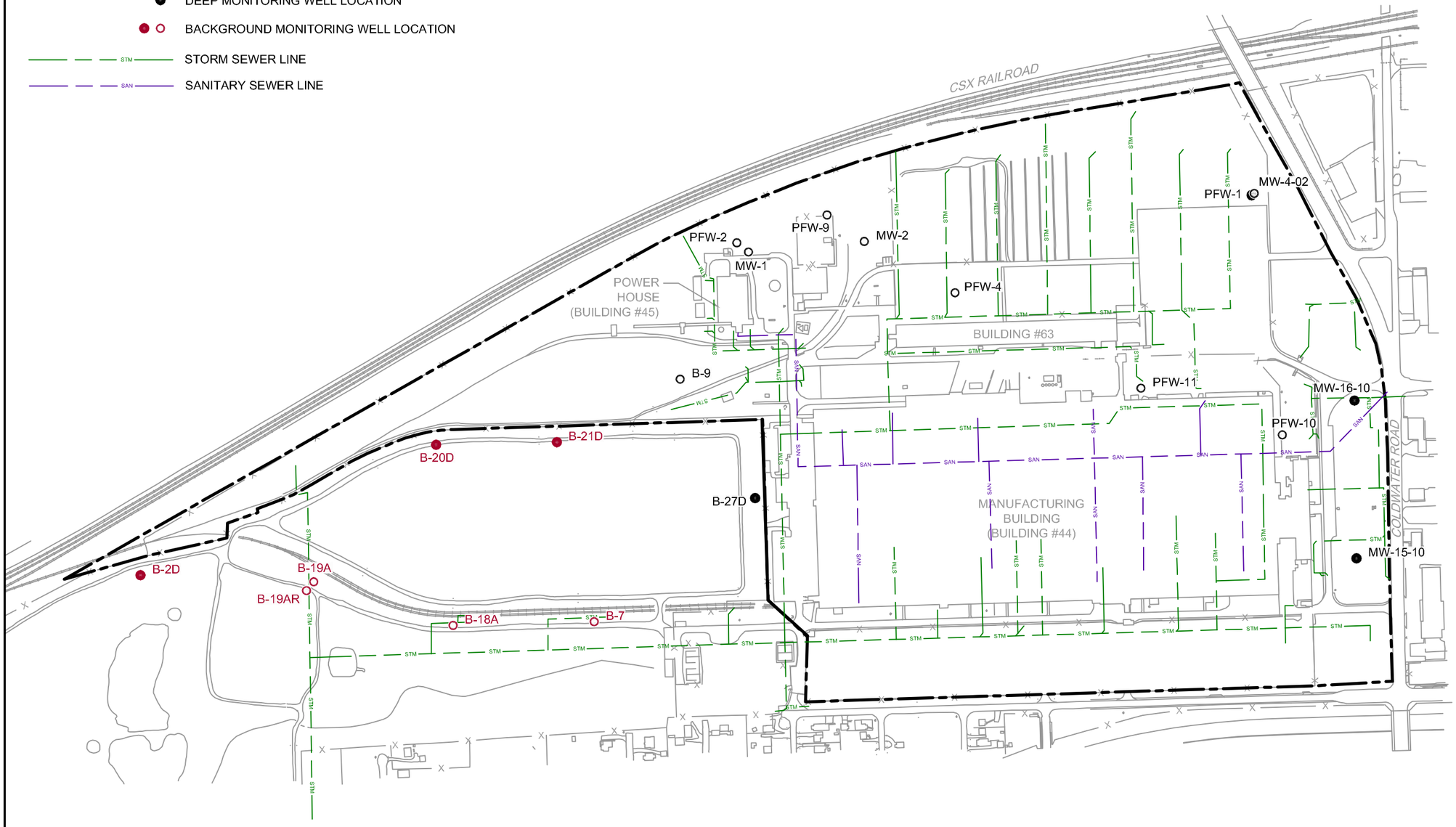


figure 1

2011 Q3 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.

12636-T09(CONF011)GN-WA003 NOV 29/2011

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STM — STORM SEWER LINE
- SAN — SANITARY SEWER LINE

MW-4-02	11/29/2010
Metals	
Aluminum	0.157 J (B)
Iron	1.41 (B)
Lead	0.0063 (B)
Manganese	0.426 (B)

- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (mg/L)
- PARAMETER
- EXCEEDS CRITERIA

NOTES:
(1) LOCATION NOT SAMPLED DUE TO CLOSE PROXIMITY TO MW-4-02 WHICH HAD A GREATER NUMBER OF EXCEEDANCES.
(2) MW-02 WAS NOT SAMPLED BECAUSE IT REMAINED DRY AFTER DEVELOPMENT.

Chemical Name	a	b	c	d	e	f
Aluminum	64000	0.05	-	0.05	-	-
Aluminum (dissolved)	64000	0.05	-	0.05	-	-
Arsenic	4.3	0.01	-	0.01	-	0.01
Arsenic (dissolved)	4.3	0.01	-	0.01	-	0.01
Chromium	460	0.1	-	0.1	-	0.011
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron	58000	0.3	-	0.3	-	-
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Lead (dissolved)	-	0.004	-	0.004	-	-
Manganese	9100	0.05	-	0.05	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Mercury	0.056	0.002	0.056	0.002	0.056	0.0000013
Mercury (dissolved)	0.056	0.002	0.056	0.002	0.056	0.0000013
Silver	1500	0.098	-	0.034	-	0.0002
Silver (dissolved)	1500	0.098	-	0.034	-	0.0002
Vanadium	970	0.062	-	0.0045	-	0.012
Vanadium (dissolved)	970	0.062	-	0.0045	-	0.012
Cyanide (total)	57	0.2	-	0.2	-	0.0052

Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface Criteria (2011) (GSI[F])

0 200 400ft

PFW-2	12/3/2010	5/13/2011	9/12/2011
Metals			
Aluminum	0.2 U/0.2 U	0.2 U	0.022 J
Arsenic	0.0032 J/0.005 U	0.005 U	0.005 U
Chromium	0.005 U/0.005 U	0.005 U	0.005 U
Iron	0.701 (BD)/0.684 (BD)	0.541 (BD)	0.97 (BD)
Lead	0.003 U/0.003 U	0.003 U	0.003 U
Manganese	0.963 (BD)/0.91 (BD)	0.581 (BD)	1.4 (BD)
Mercury	0.0002 UJ/0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U/0.0002 U	0.0002 U	0.0002 U
Vanadium	0.004 U/0.004 U	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

PFW-9	12/2/2010	5/13/2011	9/12/2011
Metals			
Aluminum	1.3 J (BD)/0.524 J (BD)	0.2 U	0.05 U
Arsenic	0.005 U/0.005 U	0.005 U	0.0033 J
Chromium	0.005 U/0.005 U	0.005 U	0.005 U
Iron	7.78 J (BD)/2.93 J (BD)	0.232	2 (BD)
Lead	0.003 U/0.003 U	0.003 U	0.003 U
Manganese	0.0519 J (BD)/0.0208 J	0.008 J	0.41 (BD)
Mercury	0.0002 UJ/0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U/0.0002 U	0.0002 U	0.0002 U
Vanadium	0.0015 J/0.004 U	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

MW-3-02	12/2/2010
Metals	
Aluminum	0.2 U
Arsenic	0.005 U
Chromium	0.005 U
Iron	0.0825 J
Lead	0.003 U
Manganese	1.95 (BD)
Mercury	0.0002 UJ
Silver	0.0002 U
Vanadium	0.004 U

MW-2-02	11/29/2010
Metals	
Aluminum	0.2 U
Arsenic	0.005 U
Chromium	0.005 U
Iron	0.1 U
Lead	0.003 U
Manganese	0.576 (BD)
Mercury	0.0002 UJ
Silver	0.0002 U
Vanadium	0.004 U

MW-1	12/2/2010	5/13/2011	9/12/2011
Metals			
Aluminum	1.85 (BD)	0.633 (BD)	0.32 (BD)
Arsenic	0.0094	0.005 U	0.005 U
Chromium	0.0035 J	0.005 U	0.005 U
Iron	3.59 (BD)	0.857 (BD)	1.2 (BD)
Lead	0.0142 (BD)	0.0033	0.0033
Manganese	0.164 (BD)	0.0567 (BD)	0.4 (BD)
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U	0.0002 U	0.0002 U
Vanadium	0.0043	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

MW-4-02	11/29/2010	5/11/2011	9/13/2011
Metals			
Aluminum	0.157 J (BD)	0.101 J (BD)	0.05 U
Arsenic	0.005 U	0.005 U	0.005 U
Chromium	0.005 U	0.005 U	0.005 U
Iron	1.41 (BD)	0.101	0.1 U
Lead	0.0063 (BD)	0.003 U	0.003 U
Manganese	0.426 (BD)	0.0418	0.023 J
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U	0.0002 U	0.0002 U
Vanadium	0.004 U	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

B-9	6/25/2009	11/16/2009	12/3/2010	5/11/2011	9/14/2011
Metals					
Aluminum	-	-	0.704 (BD)	0.268 (BD)	0.022 J
Arsenic	-	-	0.0033 J	0.005 U	0.005 U
Chromium	-	-	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	0.005 U	0.005 U	-	-	-
Iron	-	-	1.01 (BD)	0.302 (BD)	0.27
Iron (dissolved)	0.059	-	-	-	-
Lead	-	-	0.003 U	0.003 U	0.003 U
Manganese	-	-	0.391 (BD)	0.211 (BD)	6.8 J (BD)
Manganese (dissolved)	0.173 (BD)	-	-	-	-
Mercury	-	-	0.0002 UJ	0.0002 U	0.0002 U
Silver	-	-	0.0002 U	0.0002 U	0.0002 U
Vanadium	-	-	0.0012 J	0.004 U	0.004 U
Wet					
Cyanide (total)	-	-	-	-	0.0050 U

MW-2	12/3/2010	5/13/2011	9/12/2011
Metals			
Aluminum	0.508 (BD)	0.213 (BD)	0.036 J
Aluminum (dissolved)	-	-	0.05 U
Arsenic	0.0279 (BDF)	0.0046 J	0.01
Arsenic (dissolved)	-	-	0.0075
Chromium	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	-	-	0.005 U
Iron	24.8 (BD)	8.27 (BD)	16 (BD)
Iron (dissolved)	-	-	14 (BD)
Lead	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	0.003 U
Manganese	2.12 (BD)	0.541 (BD)	2.5 (BD)
Manganese (dissolved)	-	-	2.7 (BD)
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Mercury (dissolved)	-	-	0.0002 U
Silver	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	-	-	0.0002 U
Vanadium	0.0014 J	0.004 U	0.004 U
Vanadium (dissolved)	-	-	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

PFW-4	5/11/2011	9/12/2011
Metals		
Aluminum	3.76 (BD)/3.87 (BD)	0.4 (BD)
Aluminum (dissolved)	-	0.073 (BD)
Arsenic	0.0034 J/0.0035 J	0.0044 J
Arsenic (dissolved)	-	0.0034 J
Chromium	0.0163 (F)/0.0164 (F)	0.005 U
Chromium Total (dissolved)	-	0.005 U
Iron	5.62 (BD)/5.71 (BD)	0.66 (BD)
Iron (dissolved)	-	0.1 U
Lead	0.0356 (BD)/0.0358 (BD)	0.013 (BD)
Lead (dissolved)	-	0.003 U
Manganese	0.0962 (BD)/0.0982 (BD)	0.031
Manganese (dissolved)	-	0.017
Mercury	0.0002 U/0.0002 U	0.0002 U
Mercury (dissolved)	-	0.0002 U
Silver	0.0002 U/0.0002 U	0.0002 U
Silver (dissolved)	-	0.0002 U
Vanadium	0.0108 (D)/0.0111 (D)	0.0025 J
Vanadium (dissolved)	-	0.0014 J
Wet		
Cyanide (total)	-	0.0058 (F)

PFW-11	12/2/2010	5/13/2011	9/13/2011
Metals			
Aluminum	1.57 (BD)	0.172 J (BD)	0.031 J
Arsenic	0.005 U	0.005 U	0.005 U
Chromium	0.0053	0.005 U	0.005 U
Iron	2.73 (BD)	0.202	0.1 U
Lead	0.0125 (BD)	0.003 U	0.003 U
Manganese	0.056 (BD)	0.0317	0.055 J (BD)
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U	0.0002 U	0.0002 U
Vanadium	0.0032 J	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

PFW-10	12/3/2010	5/13/2011	9/13/2011
Metals			
Aluminum	0.2 U	0.2 U	0.05 U
Arsenic	0.005 U	0.005 U	0.005 U
Chromium	0.005 U	0.005 U	0.005 U
Iron	0.1 U	0.1 U	0.1 U
Lead	0.003 U	0.003 U	0.003 U
Manganese	0.16 (BD)	0.0719 (BD)	0.047
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Silver	0.0002 U	0.0002 U	0.0002 U
Vanadium	0.004 U	0.004 U	0.004 U
Wet			
Cyanide (total)	-	-	0.0050 U

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

figure 2

SHALLOW INVESTIGATIVE GROUNDWATER RESULTS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-T09(CONF011)GN-WA005 NOV 29/2011

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STORM SEWER LINE (STM)
- SANITARY SEWER LINE (SAN)
- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (mg/L)
- PARAMETER
- EXCEEDS CRITERIA

MW-4-02	11/29/2010
Metals	
Aluminum	0.157 J (B)
Iron	1.41 (B)
Lead	0.0063 (B)
Manganese	0.426 (B)

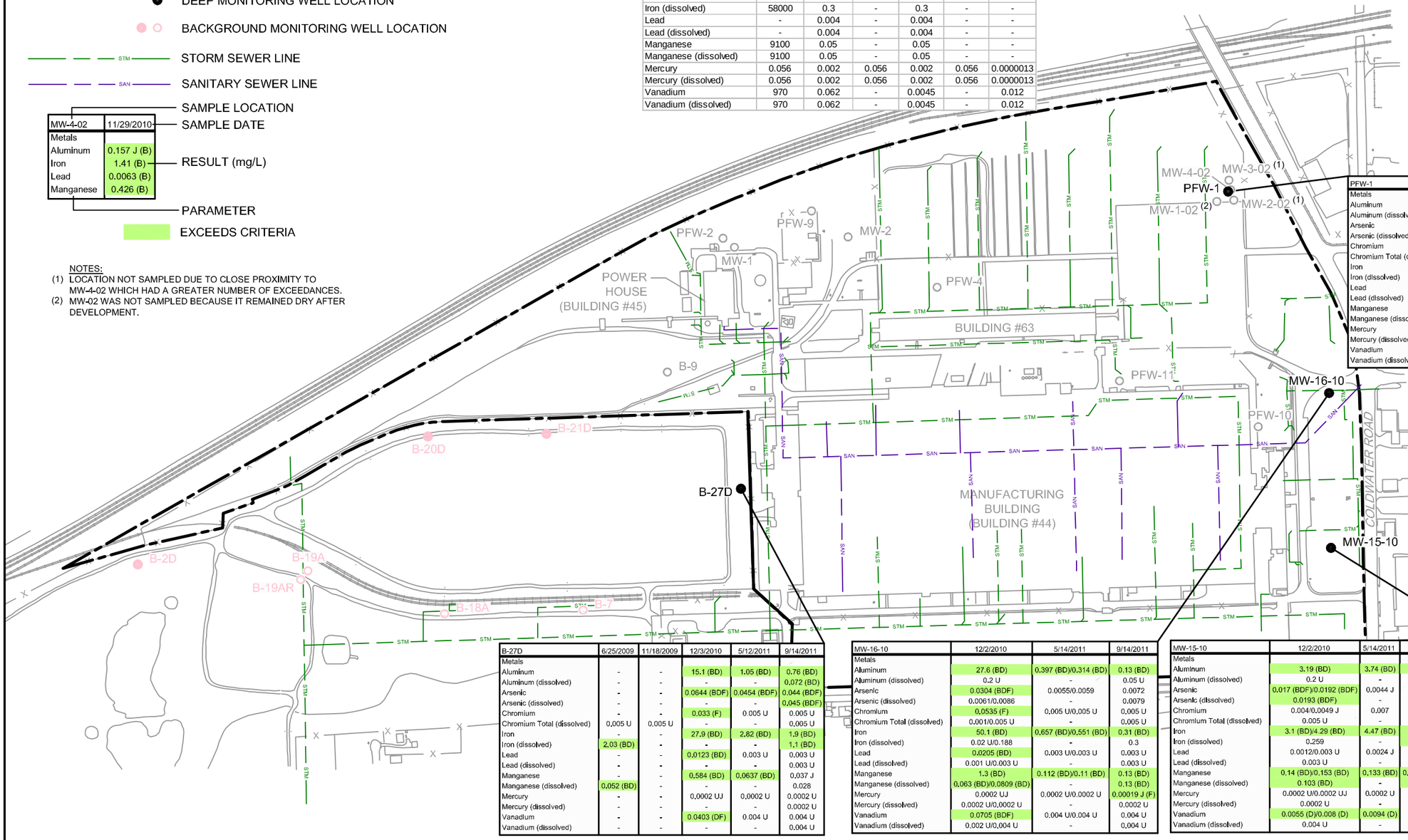
NOTES:
(1) LOCATION NOT SAMPLED DUE TO CLOSE PROXIMITY TO MW-4-02 WHICH HAD A GREATER NUMBER OF EXCEEDANCES.
(2) MW-02 WAS NOT SAMPLED BECAUSE IT REMAINED DRY AFTER DEVELOPMENT.

Chemical Name	a	b	c	d	e	f
Aluminum	64000	0.05	-	0.05	-	-
Aluminum (dissolved)	64000	0.05	-	0.05	-	-
Arsenic	4.3	0.01	-	0.01	-	0.01
Arsenic (dissolved)	4.3	0.01	-	0.01	-	0.01
Chromium	460	0.1	-	0.1	-	0.011
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron	58000	0.3	-	0.3	-	-
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Lead (dissolved)	-	0.004	-	0.004	-	-
Manganese	9100	0.05	-	0.05	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Mercury	0.056	0.002	0.056	0.002	0.056	0.0000013
Mercury (dissolved)	0.056	0.002	0.056	0.002	0.056	0.0000013
Vanadium	970	0.062	-	0.0045	-	0.012
Vanadium (dissolved)	970	0.062	-	0.0045	-	0.012

Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non Resdential Drinking Water Criteria (2011) (NRDWC[B])
c - Non Resdential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Resdential Drinking Water Criteria (2011) (RDWC[D])
e - Resdential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface Criteria (2011) (GSI[F])

N

0 200 400ft



PFW-1	12/2/2010	5/13/2011	9/13/2011
Metals			
Aluminum	0.2 U	0.2 U	0.05 U
Aluminum (dissolved)	-	-	0.05 U
Arsenic	0.489 (BDF)	0.0596 (BDF)	0.062 (BDF)
Arsenic (dissolved)	-	-	0.044 (BDF)
Chromium	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	-	-	0.005 U
Iron	17 (BD)	1.83 (BD)	2 (BD)
Iron (dissolved)	-	-	1.4 (BD)
Lead	0.003 U	0.003 U	0.003 U
Lead (dissolved)	-	-	0.003 U
Manganese	0.06 (BD)	0.0334	0.026 J
Manganese (dissolved)	-	-	0.025
Mercury	0.0002 UJ	0.0002 U	0.0002 U
Mercury (dissolved)	-	-	0.0002 U
Vanadium	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	-	-	0.004 U

B-27D	6/25/2009	11/18/2009	12/3/2010	5/12/2011	9/14/2011
Metals					
Aluminum	-	-	15.1 (BD)	1.05 (BD)	0.76 (BD)
Aluminum (dissolved)	-	-	-	-	0.072 (BD)
Arsenic	-	-	0.0644 (BDF)	0.0454 (BDF)	0.044 (BDF)
Arsenic (dissolved)	-	-	-	-	0.045 (BDF)
Chromium	-	-	0.033 (F)	0.005 U	0.005 U
Chromium Total (dissolved)	0.005 U	0.005 U	-	-	0.005 U
Iron	-	-	27.9 (BD)	2.82 (BD)	1.9 (BD)
Iron (dissolved)	2.03 (BD)	-	-	-	1.1 (BD)
Lead	-	-	0.0123 (BD)	0.003 U	0.003 U
Lead (dissolved)	-	-	-	-	0.003 U
Manganese	-	-	0.584 (BD)	0.0637 (BD)	0.037 J
Manganese (dissolved)	0.052 (BD)	-	-	-	0.028
Mercury	-	-	0.0002 UJ	0.0002 U	0.0002 U
Mercury (dissolved)	-	-	-	-	0.0002 U
Vanadium	-	-	0.0403 (DF)	0.004 U	0.004 U
Vanadium (dissolved)	-	-	-	-	0.004 U

MW-16-10	12/2/2010	5/14/2011	9/14/2011
Metals			
Aluminum	27.6 (BD)	0.397 (BD)/0.314 (BD)	0.13 (BD)
Aluminum (dissolved)	0.2 U	-	0.05 U
Arsenic	0.0304 (BDF)	0.0055/0.0059	0.0072
Arsenic (dissolved)	0.0061/0.0086	-	0.0079
Chromium	0.0535 (F)	0.005 U/0.005 U	0.005 U
Chromium Total (dissolved)	0.001/0.005 U	-	0.005 U
Iron	50.1 (BD)	0.657 (BD)/0.551 (BD)	0.31 (BD)
Iron (dissolved)	0.02 U/0.188	-	0.3
Lead	0.0205 (BD)	0.003 U/0.003 U	0.003 U
Lead (dissolved)	0.001 U/0.003 U	-	0.003 U
Manganese	1.3 (BD)	0.112 (BD)/0.11 (BD)	0.13 (BD)
Manganese (dissolved)	0.063 (BD)/0.0809 (BD)	-	0.13 (BD)
Mercury	0.0002 UJ	0.0002 U/0.0002 U	0.00019 J (F)
Mercury (dissolved)	0.0002 U/0.0002 U	-	0.0002 U
Vanadium	0.0705 (BDF)	0.004 U/0.004 U	0.004 U
Vanadium (dissolved)	0.002 U/0.004 U	-	0.004 U

MW-15-10	12/2/2010	5/14/2011	9/13/2011
Metals			
Aluminum	3.19 (BD)	3.74 (BD)	0.11 (BD)/0.08 (BD)
Aluminum (dissolved)	0.2 U	-	0.029 J/0.02 J
Arsenic	0.017 (BDF)/0.0192 (BDF)	0.0044 J	0.0061/0.0054
Arsenic (dissolved)	0.0193 (BDF)	-	0.0087/0.0084
Chromium	0.004/0.0049 J	0.007	0.005 U/0.005 U
Chromium Total (dissolved)	0.005 U	-	0.005 U/0.005 U
Iron	3.1 (BD)/4.29 (BD)	4.47 (BD)	1.9 (BD)/1.9 (BD)
Iron (dissolved)	0.259	-	1.8 (BD)/1.7 (BD)
Lead	0.0012/0.003 U	0.0024 J	0.003 U/0.003 U
Lead (dissolved)	0.003 U	-	0.003 U/0.003 U
Manganese	0.14 (BD)/0.153 (BD)	0.133 (BD)	0.11 J (BD)/0.11 J (BD)
Manganese (dissolved)	0.103 (BD)	-	0.11 (BD)/0.11 (BD)
Mercury	0.0002 U/0.0002 UJ	0.0002 U	0.0002 U/0.0002 U
Mercury (dissolved)	0.0002 U	-	0.0002 U/0.0002 U
Vanadium	0.0055 (D)/0.008 (D)	0.0094 (D)	0.004 U/0.004 U
Vanadium (dissolved)	0.004 U	-	0.004 U/0.004 U

figure 3

DEEP INVESTIGATIVE GROUNDWATER RESULTS
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.

12636-T09(CONF011)GN-WA006 NOV 29/2011

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STORM SEWER LINE (STM)
- SANITARY SEWER LINE (SAN)

MW-4-02	11/29/2010
Metals	
Aluminum	0.157 J (B)
Iron	1.41 (B)
Lead	0.0063 (B)
Manganese	0.426 (B)

- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (mg/L)
- PARAMETER
- EXCEEDS CRITERIA

NOTES:
(1) LOCATION NOT SAMPLED DUE TO CLOSE PROXIMITY TO MW-4-02 WHICH HAD A GREATER NUMBER OF EXCEEDANCES.
(2) MW-02 WAS NOT SAMPLED BECAUSE IT REMAINED DRY AFTER DEVELOPMENT.

Chemical Name	a	b	c	d	e	f
Aluminum	64000	0.05	-	0.05	-	-
Aluminum (dissolved)	64000	0.05	-	0.05	-	-
Arsenic	4.3	0.01	-	0.01	-	0.01
Arsenic (dissolved)	4.3	0.01	-	0.01	-	0.01
Chromium	460	0.1	-	0.1	-	0.011
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron	58000	0.3	-	0.3	-	-
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Lead (dissolved)	-	0.004	-	0.004	-	-
Manganese	9100	0.05	-	0.05	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Mercury	0.056	0.002	0.056	0.002	0.056	0.0000013
Mercury (dissolved)	0.056	0.002	0.056	0.002	0.056	0.0000013
Silver	1500	0.098	-	0.034	-	0.0002
Silver (dissolved)	1500	0.098	-	0.034	-	0.0002
Vanadium	970	0.062	-	0.0045	-	0.012
Vanadium (dissolved)	970	0.062	-	0.0045	-	0.012
Cyanide (total)	57	0.2	-	0.2	-	0.0052

Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface Criteria (2011) (GSI[F])

N

0 200 400ft

B-19A	5/12/2011	9/14/2011
Metals		
Aluminum	0.2 U	0.05 U/0.05 U
Arsenic	0.005 U	0.005 U/0.005 U
Chromium	0.005 U	0.005 U/0.005 U
Iron	0.0927 J	0.1 U/0.1 U
Lead	0.003 U	0.003 U/0.003 U
Manganese	0.0065 J	0.0057 J/0.0032 J
Mercury	0.0002 U	0.0002 U/0.0002 U
Silver	0.0002 U	0.0002 U/0.0002 U
Vanadium	0.004 U	0.004 U/0.004 U
Wet		
Cyanide (total)	-	0.0050 U/0.0050 U

B-20D	9/15/2011
Metals	
Aluminum	1.1 (BD)
Aluminum (dissolved)	0.085 (BD)
Arsenic	0.04 (BDF)
Arsenic (dissolved)	0.036 (BDF)
Chromium	0.005 U
Chromium Total (dissolved)	0.005 U
Iron	3.4 (BD)
Iron (dissolved)	1.8 (BD)
Lead	0.003 U
Lead (dissolved)	0.003 U
Manganese	0.08 (BD)
Manganese (dissolved)	0.047
Mercury	0.0002 U
Mercury (dissolved)	0.0002 U
Silver	0.0002 U
Silver (dissolved)	0.0002 U
Vanadium	0.004 U
Vanadium (dissolved)	0.004 U
Wet	
Cyanide (total)	0.0050 U

B-21D	9/15/2011
Metals	
Aluminum	0.17 (BD)
Aluminum (dissolved)	0.05 U
Arsenic	0.054 (BDF)
Arsenic (dissolved)	0.048 (BDF)
Chromium	0.0025 J
Chromium Total (dissolved)	0.005 U
Iron	4.4 (BD)
Iron (dissolved)	1 (BD)
Lead	0.0022 J
Lead (dissolved)	0.003 U
Manganese	0.15 (BD)
Manganese (dissolved)	0.035
Mercury	0.0002 U
Mercury (dissolved)	0.0002 U
Silver	0.0002 U
Silver (dissolved)	0.0002 U
Vanadium	0.0047 (D)
Vanadium (dissolved)	0.004 U
Wet	
Cyanide (total)	0.0050 U

B-2D	5/12/2011	9/14/2011
Metals		
Aluminum	0.498 (BD)	0.26 (BD)
Aluminum (dissolved)	-	0.05 U
Arsenic	0.004 J	0.013 (BDF)
Arsenic (dissolved)	-	0.014 (BDF)
Chromium	0.005 U	0.005 U
Chromium Total (dissolved)	-	0.005 U
Iron	3.23 (BD)	2.2 (BD)
Iron (dissolved)	-	1.4 (BD)
Lead	0.003 U	0.003 U
Lead (dissolved)	-	0.003 U
Manganese	0.167 (BD)	0.13 (BD)
Manganese (dissolved)	-	0.08 (BD)
Mercury	0.0002 U	0.0002 U
Mercury (dissolved)	-	0.0002 U
Silver	0.0002 U	0.0002 U
Silver (dissolved)	-	0.0002 U
Vanadium	0.004 U	0.004 U
Vanadium (dissolved)	-	0.004 U
Wet		
Cyanide (total)	-	0.0050 U

B-19AR	9/15/2011
Metals	
Aluminum	4 (BD)
Aluminum (dissolved)	1.6 (BD)
Arsenic	0.0035 J
Arsenic (dissolved)	0.005 U
Chromium	0.0078
Chromium Total (dissolved)	0.005 U
Iron	5.1 (BD)
Iron (dissolved)	0.23
Lead	0.0029 J
Lead (dissolved)	0.003 U
Manganese	0.12 (BD)
Manganese (dissolved)	0.0071 J
Mercury	0.0002 U
Mercury (dissolved)	0.0002 U
Silver	0.00053 (F)
Silver (dissolved)	0.0002 U
Vanadium	0.0096 (D)
Vanadium (dissolved)	0.004 U
Wet	
Cyanide (total)	0.0050 U

B-18A	9/14/2011
Metals	
Aluminum	0.05 U
Aluminum (dissolved)	0.05 U
Arsenic	0.0038 J
Arsenic (dissolved)	0.005 U
Chromium	0.005 U
Chromium Total (dissolved)	0.005 U
Iron	0.1 U
Iron (dissolved)	0.1 U
Lead	0.003 U
Lead (dissolved)	0.003 U
Manganese	0.015
Manganese (dissolved)	0.025
Mercury	0.0002 U
Mercury (dissolved)	0.00019 J (F)
Silver	0.0002 U
Silver (dissolved)	0.0002 U
Vanadium	0.004 U
Vanadium (dissolved)	0.004 U
Wet	
Cyanide (total)	0.0050 U

B-7	9/15/2011
Metals	
Aluminum	0.26 (BD)
Aluminum (dissolved)	0.05 U
Arsenic	0.005 U
Arsenic (dissolved)	0.005 U
Chromium	0.005 U
Chromium Total (dissolved)	0.005 U
Iron	0.3
Iron (dissolved)	0.1 U
Lead	0.003 U
Lead (dissolved)	0.003 U
Manganese	0.03
Manganese (dissolved)	0.0036 J
Mercury	0.0002 U
Mercury (dissolved)	0.0002 U
Silver	0.0002 U
Silver (dissolved)	0.0002 U
Vanadium	0.004 U
Vanadium (dissolved)	0.004 U
Wet	
Cyanide (total)	0.0050 U

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

figure 4

SHALLOW AND DEEP BACKGROUND GROUNDWATER RESULTS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STORM SEWER LINE (STM)
- SANITARY SEWER LINE (SAN)

MW-4-02	11/29/2010
Metals	
Aluminum	0.157 J (B)
Iron	1.41 (B)
Lead	0.0063 (B)
Manganese	0.426 (B)

- SAMPLE LOCATION
- SAMPLE DATE
- RESULT (mg/L)
- PARAMETER
- EXCEEDS CRITERIA

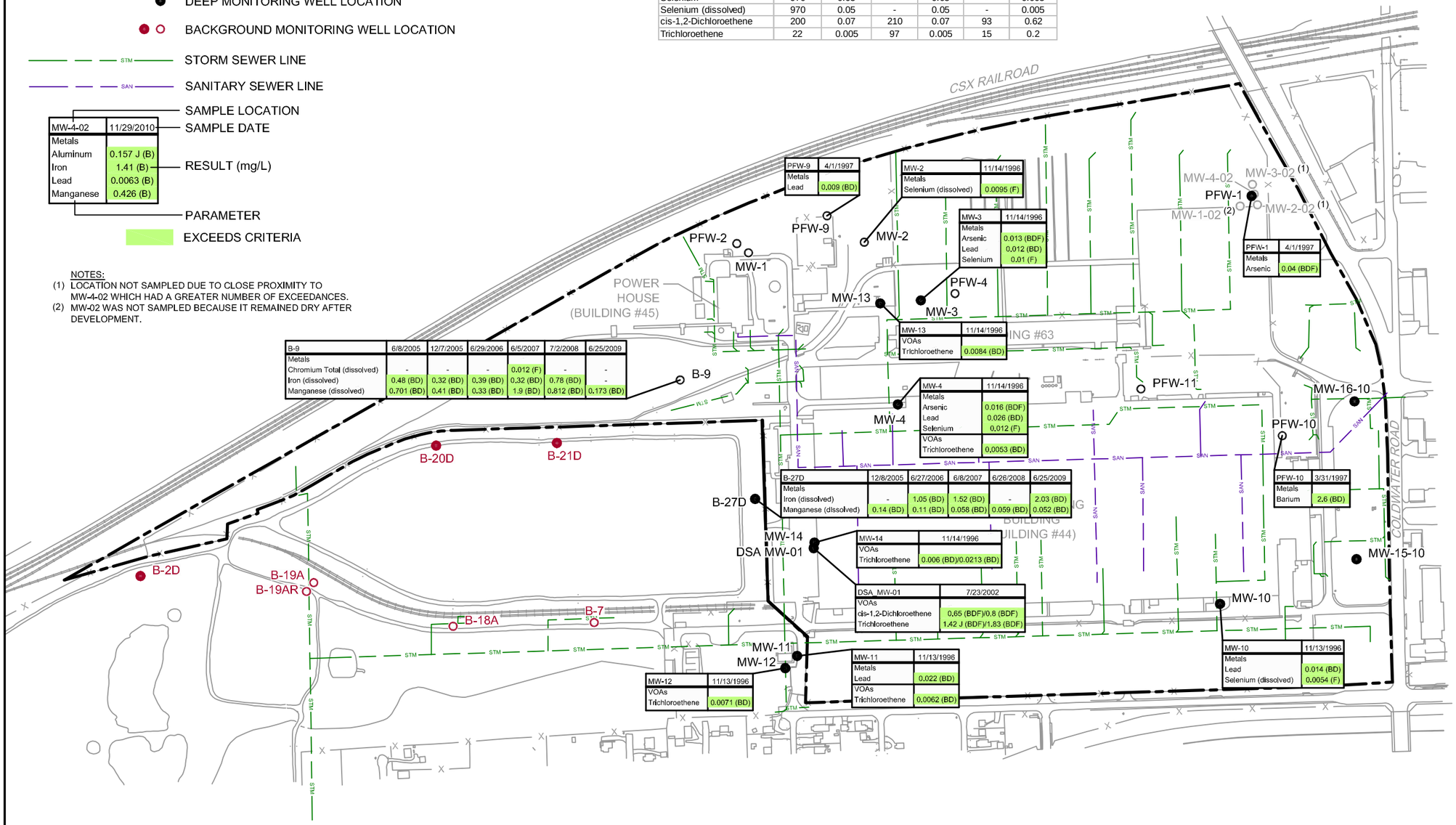
NOTES:
(1) LOCATION NOT SAMPLED DUE TO CLOSE PROXIMITY TO MW-4-02 WHICH HAD A GREATER NUMBER OF EXCEEDANCES.
(2) MW-02 WAS NOT SAMPLED BECAUSE IT REMAINED DRY AFTER DEVELOPMENT.

Chemical Name	a	b	c	d	e	f
Arsenic	4.3	0.01	-	0.01	-	0.01
Barium	14000	2	-	2	-	-
Chromium Total (dissolved)	460	0.1	-	0.1	-	0.011
Iron (dissolved)	58000	0.3	-	0.3	-	-
Lead	-	0.004	-	0.004	-	-
Manganese (dissolved)	9100	0.05	-	0.05	-	-
Selenium	970	0.05	-	0.05	-	0.005
Selenium (dissolved)	970	0.05	-	0.05	-	0.005
cis-1,2-Dichloroethene	200	0.07	210	0.07	93	0.62
Trichloroethene	22	0.005	97	0.005	15	0.2

Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface Criteria (2011) (GSI[F])

N

0 200 400ft



PFW-9	4/1/1997
Metals	
Lead	0.009 (BD)

MW-2	11/14/1996
Metals	
Selenium (dissolved)	0.0095 (F)

MW-3	11/14/1996
Metals	
Arsenic	0.013 (BDF)
Lead	0.012 (BD)
Selenium	0.01 (F)

PFW-1	4/1/1997
Metals	
Arsenic	0.04 (BDF)

B-9	6/8/2005	12/7/2005	6/29/2006	6/5/2007	7/2/2008	6/25/2009
Metals						
Chromium Total (dissolved)	-	-	-	0.012 (F)	-	-
Iron (dissolved)	0.48 (BD)	0.32 (BD)	0.39 (BD)	0.32 (BD)	0.78 (BD)	-
Manganese (dissolved)	0.701 (BD)	0.41 (BD)	0.33 (BD)	1.9 (BD)	0.812 (BD)	0.173 (BD)

MW-13	11/14/1996
VOAs	
Trichloroethene	0.0084 (BD)

MW-4	11/14/1996
Metals	
Arsenic	0.016 (BDF)
Lead	0.026 (BD)
Selenium	0.012 (F)
VOAs	
Trichloroethene	0.0053 (BD)

B-27D	12/8/2005	6/27/2006	6/8/2007	6/26/2008	6/25/2009
Metals					
Iron (dissolved)	-	1.05 (BD)	1.52 (BD)	-	2.03 (BD)
Manganese (dissolved)	0.14 (BD)	0.11 (BD)	0.058 (BD)	0.059 (BD)	0.052 (BD)

PFW-10	3/31/1997
Metals	
Barium	2.6 (BD)

MW-14	11/14/1996
VOAs	
Trichloroethene	0.006 (BD)/0.0213 (BD)

DSA_MW-01	7/23/2002
VOAs	
cis-1,2-Dichloroethene	0.65 (BDF)/0.8 (BDF)
Trichloroethene	1.42 J (BDF)/1.83 (BDF)

MW-10	11/13/1996
Metals	
Lead	0.014 (BD)
Selenium (dissolved)	0.0054 (F)

MW-11	11/13/1996
Metals	
Lead	0.022 (BD)
VOAs	
Trichloroethene	0.0062 (BD)

MW-12	11/13/1996
VOAs	
Trichloroethene	0.0071 (BD)

figure 5

SUMMARY OF GROUNDWATER EXCEEDANCES - HISTORICAL (PRIOR TO 2010)
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.

12636-T09(CONF011)GN-WA008 NOV 29/2011

LEGEND

- FACILITY BOUNDARY
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- STORM SEWER LINE
- SANITARY SEWER LINE
- BOREHOLE LOCATION
- MANHOLE

0 200 400ft

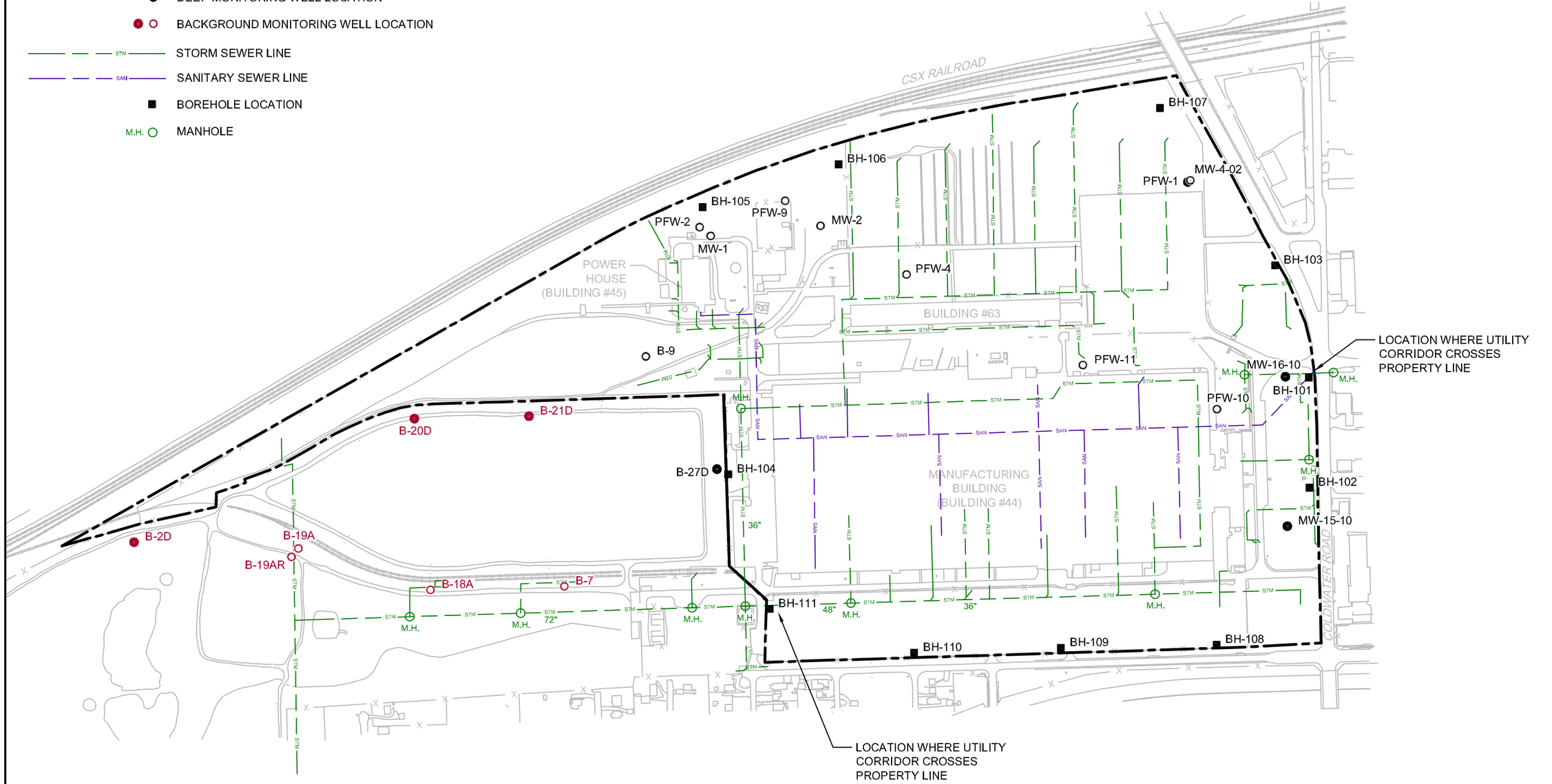


figure 6

2011 Q4 MONITORING AND PERIMETER INVESTIGATION 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.

12636-T09(CONF011)GN-WA009 JAN 2/2012

TABLE 1

REVISED SEPTEMBER 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Monitoring Well	*Screened Interval (ft bgs)*	*Ground Surface Elevation* [1] *(ft AMSL)*	*Top of Casing Elevation* [1] *(ft AMSL)*	*Reference Elevation (Top of Riser) (ft AMSL)*		*Depth To Water (Below Riser) (ft)*	*Date*	*Fall 2011 Event Parameters*
Perched Monitoring Wells								
B-7 [6]	23 to 28	812.07	815.20	N/A	[2]	23.71	09/15/11	VOCs, Metals, Cyanide
B-9	19 to 24	806.77	808.32	807.67	[3]	8.66	09/14/11	VOCs, Metals, Cyanide
B-18A [6]	36 to 41	809.53	812.25	N/A	[2]	24.89	09/14/11	VOCs, Metals, Cyanide
B-19A [6]	8.5 to 13.5	810.03	813.13	812.81	[5]	10.04	09/14/11	VOCs, Metals, Cyanide
B-19AR [6]	34 to 44	810.48	813.15	N/A	[2]	39.02	09/15/11	VOCs, Metals, Cyanide
MW-1	15 to 25	806.29	806.35	806.08	[3]	4.41	09/12/11	VOCs, Metals, Cyanide
MW-2	15 to 25	807.22	806.90	806.90		4.54	09/12/11	VOCs, Metals, Cyanide
MW-4-02	10 to 15	807.93	810.77	810.76	[4]	11.91	09/13/11	VOCs, Metals, Cyanide
PFW-2	11.9 to 14.4	807.04	809.94	809.43	[3]	8.19	09/12/11	VOCs, Metals, Cyanide
PFW-4	8.4 to 13.4	808.17	807.72	807.72		4.51	09/12/11	VOCs, Metals, Cyanide
PFW-9	6.7 to 9.2	807.41	810.49	810.05	[3]	8.76	09/12/11	VOCs, Metals, Cyanide
PFW-10	14.2 to 16.7	808.85	808.48	808.48		3.87	09/13/11	VOCs, Metals, Cyanide
PFW-11	8.1 to 10.6	809.63	809.40	809.40		2.18	09/13/11	VOCs, Metals, Cyanide
Drift Aquifer Monitoring Wells								
B-2D [6]	62 to 72	800.61	804.32	803.97	[5]	55.45	09/14/11	VOCs, Metals, Cyanide
B-20D [6]	83 to 88	813.37	816.61	N/A	[2]	71.63	09/15/11	VOCs, Metals, Cyanide
B-21D [6]	91 to 96	820.06	822.60	N/A	[2]	82.21	09/15/11	VOCs, Metals, Cyanide
B-27D	77 to 87	810.27	813.15	813.00	[3]	77.89	09/14/11	VOCs, Metals, Cyanide
MW-15-10	88 to 93	804.89	808.75	808.41	[3]	78.13	09/13/11	VOCs, Metals, Cyanide
MW-16-10	79 to 84	795.99	799.23	798.90	[3]	68.21	09/14/11	VOCs, Metals, Cyanide
PFW-1	81.3 to 86.3	807.83	809.78	809.77	[4]	79.02	09/13/11	VOCs, Metals, Cyanide

Notes:

Metals - Total metals (Dissolved Metals also if NTU is greater than 5)
Cyanide - Amenable cyanide
(1) Surveyed March 25, 2004, unless otherwise noted
(2) Surveyed December 2010/January 2010
(3) Surveyed December 2010/January 2011
(4) Surveyed December 2010/January 2011 for top of riser elevation only
(5) Surveyed April 2011
(6) Site-specific background well

TABLE 2

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

Monitoring Well	*Date Sampled*	*Turbidity Reading (1) (NTU)*	*Metals Analytical Method Used*
Perched Monitoring Wells			
B-7 (2)	09/15/11	1.29	Total/Dissolved Metals
B-9	09/14/11	4.48	Total Metals
B-18A (2)	09/14/11	3.77	Total/Dissolved Metals
B-19A (2)	09/14/11	0.96	Total Metals
B-19AR (2)	09/15/11	162.00	Total/Dissolved Metals
MW-1	09/12/11	5.24	Total Metals
MW-2	09/12/11	17.00	Total/Dissolved Metals
MW-4-02	09/13/11	2.39	Total Metals
PFW-2	09/12/11	2.09	Total Metals
PFW-4	09/12/11	19.10	Total/Dissolved Metals
PFW-9	09/12/11	2.37	Total Metals
PFW-10	09/13/11	1.42	Total Metals
PFW-11	09/13/11	2.63	Total Metals
Drift Aquifer Monitoring Wells			
B-2D (2)	09/14/11	23.10	Total/Dissolved Metals
B-20D (2)	09/14/11	61.90	Total/Dissolved Metals
B-21D (2)	09/15/11	187.00	Total/Dissolved Metals
B-27D	09/14/11	40.00	Total/Dissolved Metals
MW-15-10	09/13/11	10.90	Total/Dissolved Metals
MW-16-10	09/14/11	12.00	Total/Dissolved Metals
PFW-1	09/13/11	14.10	Total/Dissolved Metals

Notes:

(1) Value recorded upon stabilization
(2) Site-specific background well

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-7*	*B-9*	*B-18A*
Sample ID:								*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*
Sample Date:								*9/14/2011*	*9/15/2011*	*9/14/2011*	*9/14/2011*
Parameters:	*Units*	*a*	*b*	*c*	*d*	*e*	*f*				
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.2	660	0.089	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.007	0.2	0.13	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	13000	5.2	20000	1.8	20000	-	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	11	0.005	35	0.005	5.6	0.2	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	140	0.08	3100	0.08	470	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	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
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	0.001 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
Methyl cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	0.04	47000	7.1	0.005 U	0.005 U	0.005 U	0.005 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-7*	*B-9*	*B-18A*
Sample ID:								*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*
Sample Date:								*9/14/2011*	*9/15/2011*	*9/14/2011*	*9/14/2011*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	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
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U	0.002 U
Metals											
Aluminum	mg/L	64000	0.05	-	0.05	-	-	0.26 [bd]	0.26 [bd]	0.022 J	0.05 U
Aluminum (dissolved)	mg/L	64000	0.05	-	0.05	-	-	0.05 U	0.05 U	-	0.05 U
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U	-	0.002 U
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.013 [bdr]	0.005 U	0.005 U	0.0038 J
Arsenic (dissolved)	mg/L	4.3	0.01	-	0.01	-	0.01	0.014 [bdr]	0.005 U	-	0.005 U
Barium	mg/L	14000	2	-	2	-	-	0.31	0.054 J	0.011 J	0.033 J
Barium (dissolved)	mg/L	14000	2	-	2	-	-	0.33	0.051 J	-	0.033 J
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	-	0.001 U
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	-	0.001 U
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	-	0.005 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U	0.01	0.007 U
Cobalt (dissolved)	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U	-	0.007 U
Copper	mg/L	7400	1	-	1	-	-	0.0021 U	0.0025 U	0.002 U	0.002 U
Copper (dissolved)	mg/L	7400	1	-	1	-	-	0.002 U	0.0027 U	-	0.002 U
Iron	mg/L	58000	0.3	-	0.3	-	-	2.2 [bd]	0.3	0.27	0.1 U
Iron (dissolved)	mg/L	58000	0.3	-	0.3	-	-	1.4 [bd]	0.1 U	-	0.1 U
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U	-	0.003 U
Manganese	mg/L	9100	0.05	-	0.05	-	-	0.13 [bd]	0.03	6.8 J [bd]	0.015
Manganese (dissolved)	mg/L	9100	0.05	-	0.05	-	-	0.08 [bd]	0.0036 J	-	0.025
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	-	0.00019 J [t]

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-7*	*B-9*	*B-18A*
Sample ID:								*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*
Sample Date:								*9/14/2011*	*9/15/2011*	*9/14/2011*	*9/14/2011*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.0044 J	0.066	0.02 U
Nickel (dissolved)	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.02 U	-	0.0042 J
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	-	0.005 U
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	-	0.0002 U
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.0021 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.001 U	-	0.001 U
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	-	0.004 U
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	-	0.02 U
General Chemistry											
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Cyanide (total)	mg/L	57	0.2	-	0.2	-	0.0052	0.0050 U	0.0050 U	0.0050 U	0.0050 U

Notes:

J - Estimated concentration
U - Not present at or above the associated value
UJ - Estimated reporting limit
- - Not analyzed

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non-Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface (2011) (GSI[F])

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19A*	*B-19A*	*B-19AR*	*B-20D*	*B-21D*	*B-27D*
Sample ID:		*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*	*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*GW-12636-091411-JY-018*
Sample Date:		*9/14/2011*	*9/14/2011 (Duplicate)*	*9/15/2011*	*9/15/2011*	*9/15/2011*	*9/14/2011*
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	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	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 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	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19A*	*B-19A*	*B-19AR*	*B-20D*	*B-21D*	*B-27D*
Sample ID:		*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*	*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*GW-12636-091411-JY-018*
Sample Date:		*9/14/2011*	*9/14/2011 (Duplicate)*	*9/15/2011*	*9/15/2011*	*9/15/2011*	*9/14/2011*
Parameters:	*Units*						
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals							
Aluminum	mg/L	0.05 U	0.05 U	**4 [bd]**	**1.1 [bd]**	**0.17 [bd]**	**0.76 [bd]**
Aluminum (dissolved)	mg/L	-	-	**1.6 [bd]**	**0.085 [bd]**	0.05 U	**0.072 [bd]**
Antimony	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic	mg/L	0.005 U	0.005 U	0.0035 J	**0.04 [bd]**	**0.054 [bd]**	**0.044 [bd]**
Arsenic (dissolved)	mg/L	-	-	0.005 U	**0.036 [bd]**	**0.048 [bd]**	**0.045 [bd]**
Barium	mg/L	0.068 J	0.067 J	0.072 J	0.05 J	0.16	0.18
Barium (dissolved)	mg/L	-	-	0.045 J	0.042 J	0.15	0.18
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Chromium	mg/L	0.005 U	0.005 U	0.0078	0.005 U	0.0025 J	0.005 U
Chromium Total (dissolved)	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	0.007 U	0.007 U	0.0027 J	0.007 U	0.0018 J	0.007 U
Cobalt (dissolved)	mg/L	-	-	0.007 U	0.007 U	0.007 U	0.007 U
Copper	mg/L	0.002 U	0.002 U	0.0045 U	0.0037 U	0.002 U	0.002 U
Copper (dissolved)	mg/L	-	-	0.0052	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.1 U	0.1 U	**5.1 [bd]**	**3.4 [bd]**	**4.4 [bd]**	**1.9 [bd]**
Iron (dissolved)	mg/L	-	-	0.23	**1.8 [bd]**	**1 [bd]**	**1.1 [bd]**
Lead	mg/L	0.003 U	0.003 U	0.0029 J	0.003 U	0.0022 J	0.003 U
Lead (dissolved)	mg/L	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.0057 J	0.0032 J	**0.12 [bd]**	**0.08 [bd]**	**0.15 [bd]**	0.037 J
Manganese (dissolved)	mg/L	-	-	0.0071 J	0.047	0.035	0.028
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19A*	*B-19A*	*B-19AR*	*B-20D*	*B-21D*	*B-27D*
Sample ID:		*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*	*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*GW-12636-091411-JY-018*
Sample Date:		*9/14/2011*	*9/14/2011 (Duplicate)*	*9/15/2011*	*9/15/2011*	*9/15/2011*	*9/14/2011*
Parameters:	*Units*						
Nickel	mg/L	0.02 U	0.02 U	0.01 J	0.02 U	0.0055 J	0.02 U
Nickel (dissolved)	mg/L	-	-	0.02 U	0.02 U	0.02 U	0.02 U
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Silver	mg/L	0.0002 U	0.0002 U	0.00053[f]	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.0017 U
Vanadium	mg/L	0.004 U	0.004 U	0.0096[d]	0.004 U	0.0047[d]	0.004 U
Vanadium (dissolved)	mg/L	-	-	0.004 U	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.02 U	0.02 U	0.035 U	0.02 U	0.039 U	0.02 U
Zinc (dissolved)	mg/L	-	-	0.02 U	0.02 U	0.02 U	0.02 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
Cyanide (total)	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

Notes:

J - Estimated concentration
U - Not present at or above the associated value
UJ - Estimated reporting limit
- - Not analyzed
Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non-Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface (2011) (GSI[F])

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-4-02*	*MW-15-10*	*MW-15-10*	*MW-16-10*
Sample ID:		*GW-12636-091211-JY-005*	*GW-12636-091211-JY-003*	*GW-12636-091311-JY-009*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-091411-JY-014*
Sample Date:		*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*	*9/13/2011 (Duplicate)*	*9/14/2011*
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0038 J
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.00015 J	0.00014 J	0.00074 J
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.0012	0.00085 J	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 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	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-4-02*	*MW-15-10*	*MW-15-10*	*MW-16-10*
Sample ID:		*GW-12636-091211-JY-005*	*GW-12636-091211-JY-003*	*GW-12636-091311-JY-009*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-091411-JY-014*
Sample Date:		*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*	*9/13/2011 (Duplicate)*	*9/14/2011*
Parameters:	***Units***						
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals							
Aluminum	mg/L	**0.32**[bd]	0.036 J	0.05 U	**0.11**[bd]	**0.08**[bd]	**0.13**[bd]
Aluminum (dissolved)	mg/L	-	0.05 U	-	0.029 J	0.02 J	0.05 U
Antimony	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	0.002 U	-	0.002 U	0.002 U	0.002 U
Arsenic	mg/L	0.005 U	0.01	0.005 U	0.0061	0.0054	0.0072
Arsenic (dissolved)	mg/L	-	0.0075	-	0.0087	0.0084	0.0079
Barium	mg/L	0.045 J	0.22	0.11	0.16	0.16	0.23
Barium (dissolved)	mg/L	-	0.23	-	0.16	0.16	0.23
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	0.005 U	-	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	0.0029 J	0.0023 J	0.007 U	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	0.0059 J	-	0.007 U	0.007 U	0.007 U
Copper	mg/L	0.004	0.00044 J	0.002 U	0.002 U	0.002 U	0.002 U
Copper (dissolved)	mg/L	-	0.00056 J	-	0.002 U	0.002 U	0.002 U
Iron	mg/L	**1.2**[bd]	**16**[bd]	0.1 U	**1.9**[bd]	**1.9**[bd]	**0.31**[bd]
Iron (dissolved)	mg/L	-	**14**[bd]	-	**1.8**[bd]	**1.7**[bd]	0.3
Lead	mg/L	0.0033	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	0.003 U	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	**0.4**[bd]	**2.5**[bd]	0.023 J	**0.11 J**[bd]	**0.11 J**[bd]	**0.13**[bd]
Manganese (dissolved)	mg/L	-	**2.7**[bd]	-	**0.11**[bd]	**0.11**[bd]	**0.13**[bd]
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00019 J**[r]
Mercury (dissolved)	mg/L	-	0.0002 U	-	0.0002 U	0.0002 U	0.0002 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-4-02*	*MW-15-10*	*MW-15-10*	*MW-16-10*
Sample ID:		*GW-12636-091211-JY-005*	*GW-12636-091211-JY-003*	*GW-12636-091311-JY-009*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-091411-JY-014*
Sample Date:		*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*	*9/13/2011 (Duplicate)*	*9/14/2011*
Parameters:	***Units***						
Nickel	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	0.02 U	-	0.02 U	0.02 U	0.02 U
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	0.005 U	-	0.005 U	0.005 U	0.005 U
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00036 U
Silver (dissolved)	mg/L	-	0.0002 U	-	0.0002 U	0.0002 U	0.0002 U
Thallium	mg/L	0.001 U	0.001 U	0.0015 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	0.004 U	-	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.042	0.0082 J	0.02 U	0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	0.02 U	-	0.02 U	0.02 U	0.02 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
Cyanide (total)	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U

Notes:

J - Estimated concentration
U - Not present at or above the associated value
UJ - Estimated reporting limit
- - Not analyzed
Criteria:
a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non-Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface (2011) (GSI[F])

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-2*	*PFW-4*	*PFW-9*	*PFW-10*	*PFW-11*
Sample ID:		*GW-12636-091311-JY-010*	*GW-12636-091211-JY-004*	*GW-12636-091211-JY-002*	*GW-12636-091211-JY-006*	*GW-12636-091311-JY-008*	*GW-12636-091311-JY-012*
Sample Date:		*9/13/2011*	*9/12/2011*	*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.01 U	0.01 U	0.0025 J	0.01 U	0.01 U	0.01 U
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.0013 J	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.01 U	0.01 U	0.012	0.01 U	0.01 U	0.01 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropyl benzene	mg/L	0.001 U	0.001 U	0.001 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	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-2*	*PFW-4*	*PFW-9*	*PFW-10*	*PFW-11*
Sample ID:		*GW-12636-091311-JY-010*	*GW-12636-091211-JY-004*	*GW-12636-091211-JY-002*	*GW-12636-091211-JY-006*	*GW-12636-091311-JY-008*	*GW-12636-091311-JY-012*
Sample Date:		*9/13/2011*	*9/12/2011*	*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*
Parameters:	***Units***						
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Metals							
Aluminum	mg/L	0.05 U	0.022 J	0.4 [bd]	0.05 U	0.05 U	0.031 J
Aluminum (dissolved)	mg/L	0.05 U	-	0.073 [bd]	-	-	-
Antimony	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	0.002 U	-	0.002 U	-	-	-
Arsenic	mg/L	0.062 [bdr]	0.005 U	0.0044 J	0.0033 J	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.044 [bdr]	-	0.0034 J	-	-	-
Barium	mg/L	0.14	0.056 J	0.012 J	0.05 J	0.045 J	0.069 J
Barium (dissolved)	mg/L	0.13	-	0.0084 J	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	0.001 U	-	0.001 U	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	0.001 U	-	0.001 U	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	0.005 U	-	0.005 U	-	-	-
Cobalt	mg/L	0.007 U	0.007 U	0.007 U	0.002 J	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	0.007 U	-	0.007 U	-	-	-
Copper	mg/L	0.002 U	0.0003 J	0.028	0.0004 J	0.002 U	0.002 U
Copper (dissolved)	mg/L	0.002 U	-	0.0028	-	-	-
Iron	mg/L	2 [bd]	0.97 [bd]	0.66 [bd]	2 [bd]	0.1 U	0.1 U
Iron (dissolved)	mg/L	1.4 [bd]	-	0.1 U	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.013 [bd]	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003 U	-	0.003 U	-	-	-
Manganese	mg/L	0.026 J	1.4 [bd]	0.031	0.41 [bd]	0.047	0.055 J [bd]
Manganese (dissolved)	mg/L	0.025	-	0.017	-	-	-
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	0.0002 U	-	0.0002 U	-	-	-

TABLE 3

ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-2*	*PFW-4*	*PFW-9*	*PFW-10*	*PFW-11*
Sample ID:		*GW-12636-091311-JY-010*	*GW-12636-091211-JY-004*	*GW-12636-091211-JY-002*	*GW-12636-091211-JY-006*	*GW-12636-091311-JY-008*	*GW-12636-091311-JY-012*
Sample Date:		*9/13/2011*	*9/12/2011*	*9/12/2011*	*9/12/2011*	*9/13/2011*	*9/13/2011*
Parameters:	***Units***						
Nickel	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	0.02 U	-	0.02 U	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	0.005 U	-	0.005 U	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	0.0002 U	-	0.0002 U	-	-	-
Thallium	mg/L	0.001 U	0.0023 U	0.001 U	0.001 U	0.0015 U	0.001 U
Thallium (dissolved)	mg/L	0.001 U	-	0.001 U	-	-	-
Vanadium	mg/L	0.004 U	0.004 U	0.0025 J	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	0.004 U	-	0.0014 J	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.025	0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	0.02 U	-	0.02 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
Cyanide (total)	mg/L	0.0050 U	0.0050 U	**0.0058**[1]	0.0050 U	0.0050 U	0.0050 U

Notes:

J - Estimated concentration
U - Not present at or above the associated value
UJ - Estimated reporting limit
- - Not analyzed

Criteria:

a - Groundwater Contact Criteria (2011) (GCC[A])
b - Non-Residential Drinking Water Criteria (2011) (NRDWC[B])
c - Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (NRGVIAIC[C])
d - Residential Drinking Water Criteria (2011) (RDWC[D])
e - Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (2011) (RGVIAIC[E])
f - Groundwater Surface Water Interface (2011) (GSI[F])

TABLE 4

2011 Q4 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

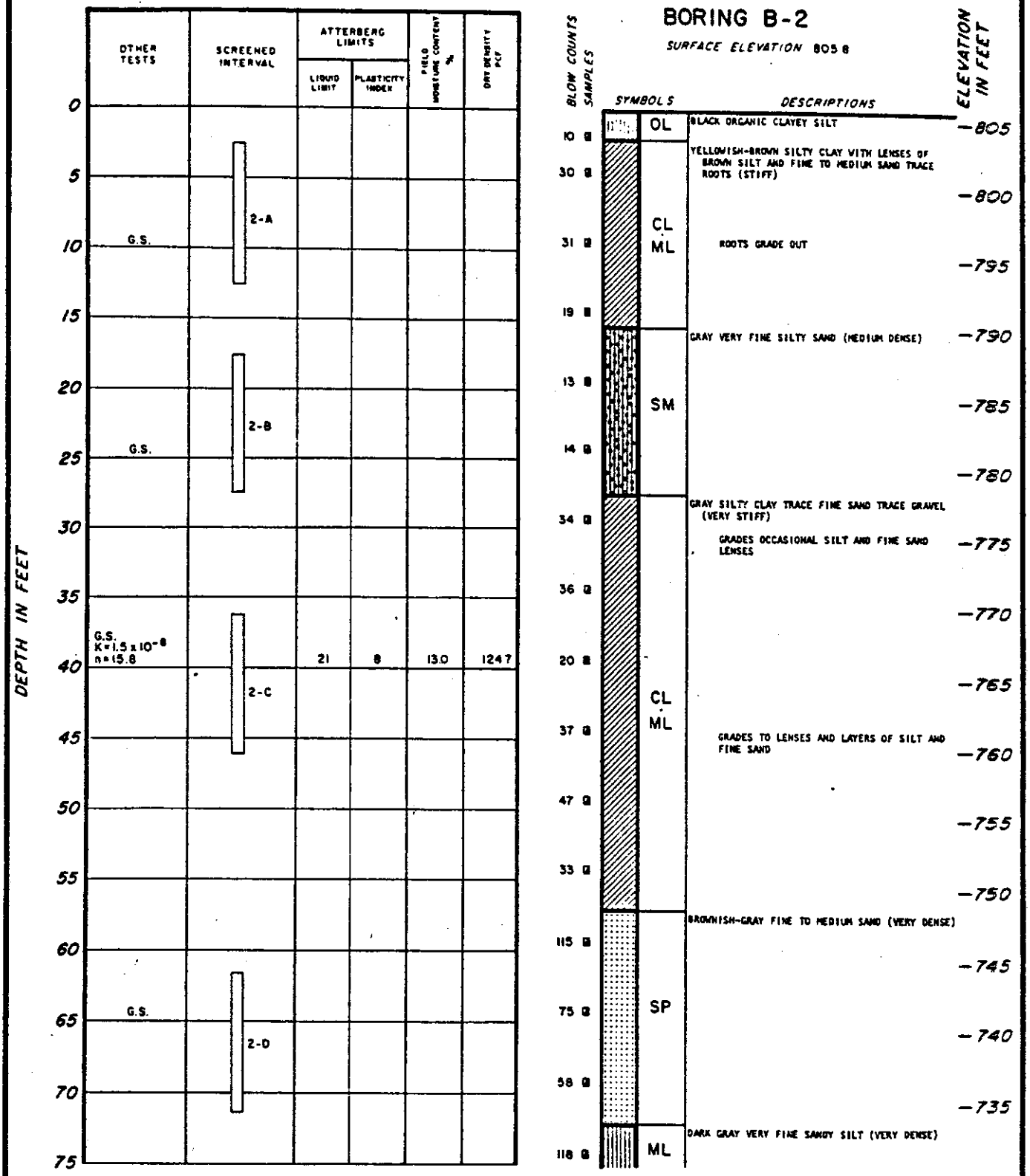
Monitoring Well	*Screened Interval (ft bgs)*	*Ground Surface Elevation* [1] *(ft AMSL)*	*Top of Casing Elevation* [1] *(ft AMSL)*	*Reference Elevation (Top of Riser) (ft AMSL)*		*SUMMER 2011 Quarterly Event Parameters*
Perched Monitoring Wells						
B-7 [6]	23 to 28	812.07	815.20	N/A	[2]	VOCs, Metals, Cyanide
B-9	19 to 24	806.77	808.32	807.67	[3]	VOCs, Metals, Cyanide
B-18A [6]	36 to 41	809.53	812.25	N/A	[2]	VOCs, Metals, Cyanide
B-19A [6]	8.5 to 13.5	810.03	813.13	812.81	[5]	VOCs, Metals, Cyanide
B-19AR [6]	34 to 44	810.48	813.15	N/A	[2]	VOCs, Metals, Cyanide
MW-1	15 to 25	806.29	806.35	806.08	[3]	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	[4]	VOCs, Metals, Cyanide
PFW-2	11.9 to 14.4	807.04	809.94	809.43	[3]	VOCs, Metals, Cyanide
PFW-4	8.4 to 13.4	808.17	807.72	807.72		VOCs, Metals, Cyanide
PFW-9	6.7 to 9.2	807.41	810.49	810.05	[3]	VOCs, Metals, Cyanide
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
Drift Aquifer Monitoring Wells						
B-2D [6]	62 to 72	800.61	804.32	803.97	[5]	VOCs, Metals, Cyanide
B-20D [6]	83 to 88	813.37	816.61	N/A	[2]	VOCs, Metals, Cyanide
B-21D [6]	91 to 96	820.06	822.60	N/A	[2]	VOCs, Metals, Cyanide
B-27D	77 to 87	810.27	813.15	813.00	[3]	VOCs, Metals, Cyanide
MW-15-10	88 to 93	804.89	808.75	808.41	[3]	VOCs, Metals, Cyanide
MW-16-10	79 to 84	795.99	799.23	798.90	[3]	VOCs, Metals, Cyanide
PFW-1	81.3 to 86.3	807.83	809.78	809.77	[4]	VOCs, Metals, Cyanide

Notes:

Metals - Total metals (Dissolved Metals also if NTU is greater than 5)
Cyanide - Amenable cyanide
(1) Surveyed March 25, 2004, unless otherwise noted
(2) Surveyed December 2010/January 2010
(3) Surveyed December 2010/January 2011
(4) Surveyed December 2010/January 2011 for top of riser elevation only
(5) Surveyed April 2011
(6) Site-specific background well

ATTACHMENT A

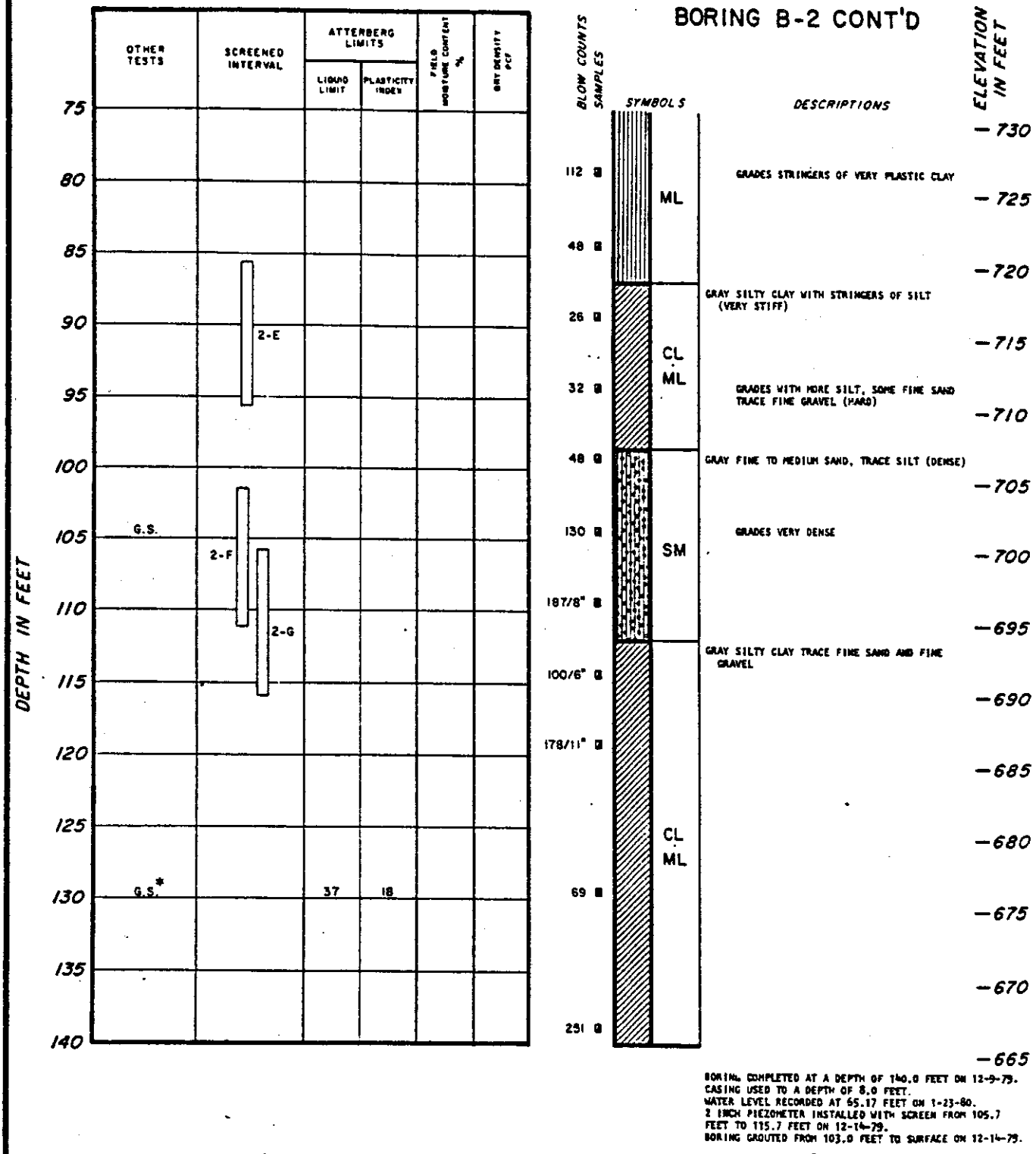
STRATIGRAPHIC AND INSTALLATION LOGS



Source: "Report, Hydrogeological Investigation, Coldwater Road Plant Waste Management Area, Flint, Michigan", Dames & Moore June 27, 1981

FIGURE A-6

LOG OF BORING B-2
FISHER BODY
COLDWATER PLANT
WASTE MANAGEMENT AREA



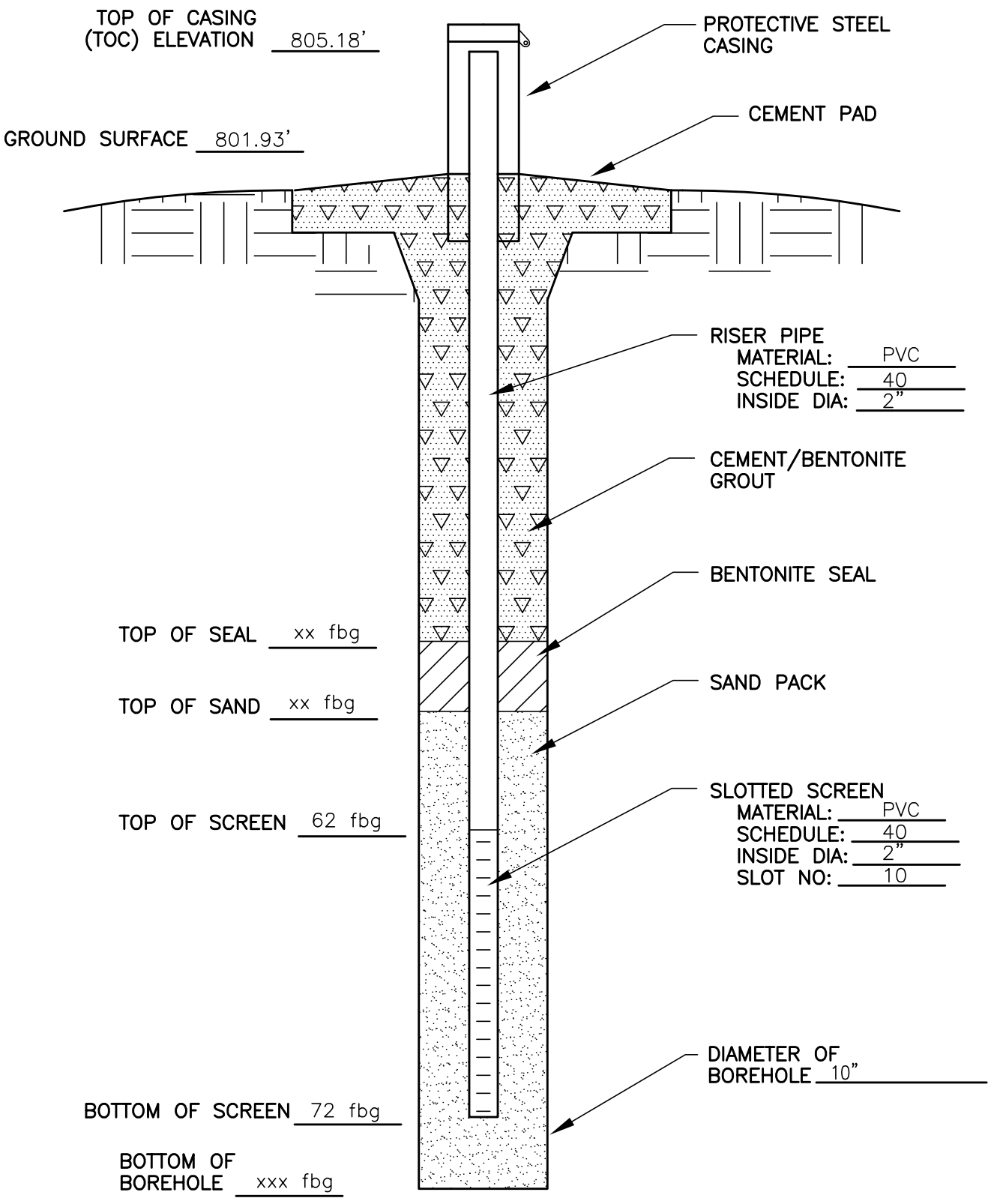
BORING COMPLETED AT A DEPTH OF 140.0 FEET ON 12-9-79.
CASING USED TO A DEPTH OF 8.0 FEET.
WATER LEVEL RECORDED AT 65.17 FEET ON 1-23-80.
2 INCH PIEZOMETER INSTALLED WITH SCREEN FROM 105.7 FEET TO 115.7 FEET ON 12-14-79.
BORING GROUTED FROM 103.0 FEET TO SURFACE ON 12-14-79.

Source: "Report, Hydrogeological Investigation, Coldwater Road Plant Waste Management Area, Flint, Michigan", Dames & Moore, June 27, 1981

FIGURE A-6

LOG OF BORING B-2
FISHER BODY
COLDWATER PLANT
WASTE MANAGEMENT AREA

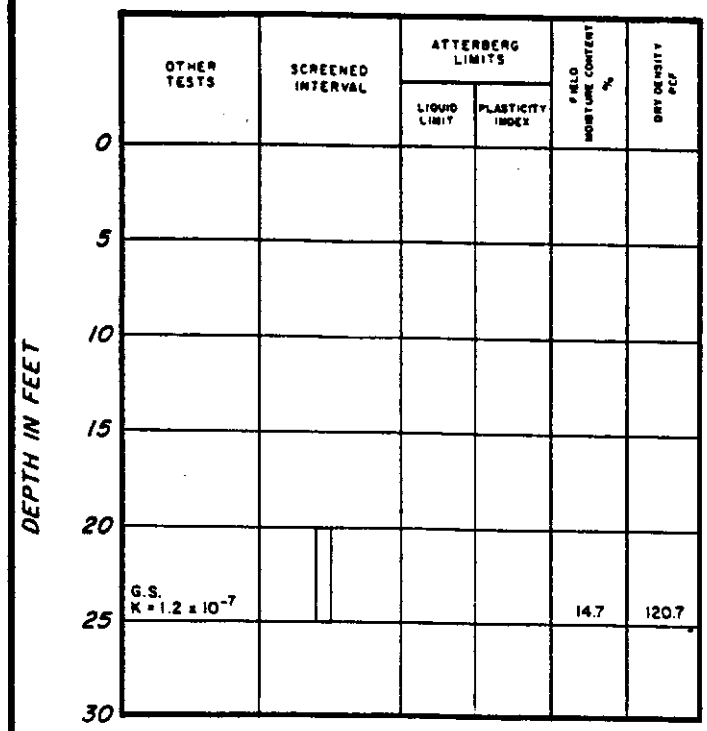
O'BRIEN & GERE
ENGINEERS INC.



COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-2D

i\projects\4966\34167\dwg\B23DR.dwg

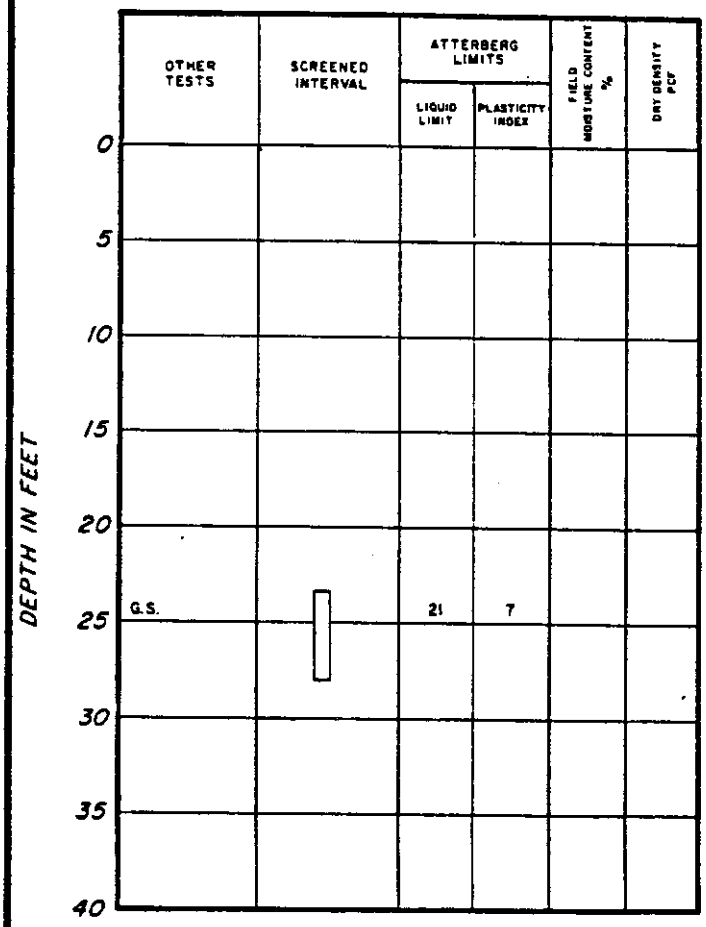
SOURCE: HYDROGEOLOGIC INVESTIGATION, COLDWATER ROAD PLANT WASTE MANAGEMENT AREA, FLINT, MICHIGAN, DAMES & MOORE, JUNE 27, 1981.



BORING B-6

SURFACE ELEVATION 812.7

BLOW COUNTS / SAMPLES	SYMBOLS	DESCRIPTIONS	ELEVATION IN FEET
6 ⊠	ML	DARK GRAYISH-BROWN CLAYEY SILT WITH SAND, TRACE ROOTS (MEDIUM STIFF) (FILL)	
6 ⊠		DARK GRAYISH-BROWN SILTY CLAY SOME FINE TO MEDIUM SAND TRACE FINE GRAVEL (MEDIUM STIFF) (FILL)	−810
9 ⊠		GRADES STIFF	
90/9" ⊠	CL	6" CONCRETE AT 9.0'	−805
12 ⊠		GRADES TO OLIVE-BROWN WITH TRACE FINE SAND AND GRAVEL (STIFF) (FILL)	
7 ⊠		GRADES LIGHT BROWN (MEDIUM STIFF)	−800
7 ⊠		GRADES GRAY	
20 ⊠		MOTTLED BROWN AND GRAY SILTY CLAY WITH TRACE SAND AND GRAVEL (VERY STIFF) GRAY GRADES OUT	−795
28 ⊠	CL	GRADES WITH LENSES OF SILT AND FINE TO MEDIUM BROWN SAND	−790
32 ⊠		LENSES AND LAYERS OF SILT AND SAND GRADE OUT	
39 ⊠		BORING COMPLETED AT A DEPTH OF 27.5 FEET ON 4-22-80. NO CASING USED. WATER LEVEL RECORDED AT FEET ON 2 INCH PIEZOMETER INSTALLED WITH SCREEN FROM 20.0 FEET TO 25.0 FEET ON 4-22-80. BORING GROUTED FROM 17.0 FEET TO SURFACE ON 4-22-80.	−785



BORING B-7

SURFACE ELEVATION 811.7

BLOW COUNTS / SAMPLES	SYMBOLS	DESCRIPTIONS	ELEVATION IN FEET
17 ⊠	SC	BROWN CLAYEY FINE TO MEDIUM SAND WITH SOME GRAVEL (MEDIUM DENSE) (FILL)	−810
17 ⊠	CL	BROWN SILTY CLAY WITH TRACE FINE TO MEDIUM SAND AND GRAVEL (STIFF TO VERY STIFF) (FILL)	
15 ⊠			−805
13 ⊠	OL	BLACK CLAYEY SILT TRACE FINE SAND WITH ROOTS (STIFF) - TOPSOIL	
23 ⊠		OLIVE-BROWN SILTY CLAY WITH SOME FINE TO MEDIUM SAND TRACE GRAVEL (VERY STIFF)	−800
27 ⊠			
27 ⊠		GRADES WITH OCCASIONAL SILT STRINGERS	−795
31 ⊠	CL	GRADES GRAY	
21 ⊠			−790
13 ⊠		GRADES WITH MORE SILT AND WITH SOME SILT STRINGERS AND THIN LENSES (STIFF)	
16 ⊠			−785
16 ⊠			
16 ⊠			−780
26 ⊠			
27 ⊠		LENSES AND LAYERS OF SILT GRADE OUT	−775

BORING COMPLETED AT A DEPTH OF 37.5 FEET ON 4-22-80.
NO CASING USED.
WATER LEVEL RECORDED AT FEET ON
2 INCH PIEZOMETER INSTALLED WITH SCREEN FROM 23.0 FEET TO 28.0 FEET ON 4-24-80.
BORING GROUTED FROM 22.0 FEET TO SURFACE ON 4-24-80

Source: "Report, Hydrogeological Investigation, Coldwater Road Plant Waste Management Area, Flint, Michigan", Dames & Moore, June 27, 1981

FIGURE A-9

LOG OF BORINGS B-6 & B-7
FISHER BODY
COLDWATER PLANT
WASTE MANAGEMENT AREA

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-18A SHEET 1 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: West central area of landfill, west of railroad tracks
GROUND ELEVATION: N/A
DATES: STARTED: 4/20/95 ENDED: 4/20/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	R M K S*
0	1	0'-2'	3	24"/24"	11	Dark yellowish brown, damp, silty CLAY						
			5									
			6									
			5									
	2	2'-4'	4	24"/24"	9	Moderate yellowish brown, damp, silty CLAY						
			4									
			5									
			6									
	3	4'-6'	3	24"/24"	11	Moderate yellowish brown, damp, silty CLAY						
			5									
5			6									
			7									
	4	6'-8'	4	24"/18"	11	Moderate yellowish brown, damp, silty CLAY						
			5									
			6									
			7									
	5	8'-10'	3	24"/20"	8	Moderate yellowish brown, damp, silty CLAY						
			4									
			4									
			6									
10	6	10'-12'	3	24"/24"	8	Mottled, damp, CLAY, some silt						
			4									
			4									
			4									
	7	12'-14'	4	24"/18"	16	Mottled, damp, CLAY, some silt						
			7									
			9									
			10									
	8	14'-16'	5	24"/18"	17	Yellow, brown, hard, damp, silty CLAY						
			8									
15			9									
			12									
	9	16'-18'	5	24"/18"	13	Yellow, brown, hard, damp, silty CLAY						
			6									
			9									
			11									
	10	18'-20'	5	24"/24"	5	Yellow, brown, hard, damp, silty CLAY						
			6									
			6									
			7									
20	11	20'-22'	4	24"/18"	11	Medium grey, damp, silty CLAY						
			5									
			6									
			7									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 36' to 41'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER MW B-18A SHEET 2 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE DEPTH ELEVATION NA NA NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 24" splitspoon HAMMER: 140 lbs.

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: West central area of landfill, west of railroad tracks
GROUND ELEVATION: N/A
DATES: STARTED: 4/20/95 ENDED: 4/20/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	R M K S*
		22'-24'	9	24"/12"	24	Medium grey, damp, silty CLAY, trace of fine gravel						
			11									
			13									
			14									
		24'-26'	3	24"/18"	7	Medium grey, damp, silty CLAY, trace of fine gravel						
			3									
25			4									
			4									
		26'-28'	8	24"/24"	21	Medium grey, damp, silty CLAY, trace of fine gravel						
			11									
			10									
			15									
		28'-30'	3	24"/24"	12	Medium grey, damp, silty CLAY, trace of fine gravel						
			5									
			7									
			8									
30		30'-32'	3	24"/24"	8	Medium grey, damp, silty CLAY, trace of fine gravel						
			4									
			4									
			5									
		32'-34'	6	24"/24"	13	Medium grey, damp, silty CLAY, trace of fine gravel						
			7									
			9									
			11									
		34'-36'	3	24"/24"	8	Medium grey, damp, silty CLAY, trace of fine gravel						
			3									
35			5									
			5									
		36'-38'	7	24"/24"	18	Medium grey, damp, silty CLAY, trace of fine gravel, 3" silt lens, 1" silty clay lens						
			8									
			10									
			12									
		38'-40'	1	24"/24"	5	Sandy, wet GRAVEL	38'					
			2									
			3									
			4			Silty, CLAY	39'6"					
40						E.O.B. @ 40 fbg						

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending for 36' to 41'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-19A SHEET 1 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: Northwest of landfill, west of railroad tracks
GROUND ELEVATION: N/A
DATES: STARTED: 4/24/95 ENDED: 4/24/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS*
0	1	0'-2'	2	24"/24"	11	Moderate yellowish brown, damp, silty CLAY						
			3									
			5									
			6									
	2	2'-4'	3	24"/24"	9	Moderate yellowish brown, damp, silty CLAY						
			5									
			6									
			6									
	3	4'-6'	4	24"/24"	11	Moderate yellowish brown, damp, silty CLAY						
			6									
5			7									
			6									
	4	6'-8'	4	24"/18"	11	Moderate yellowish brown, SILT, trace of fine sand	6'					
			5									
			7			Moderate yellowish brown, moist, SILT, trace of fine sand						
			7									
	5	8'-10'	4	24"/20"	8	Moderate yellowish brown, moist, SILT, trace of fine sand						
			6									
			8									
			10									
10	6	10'-12'	5	24"/24"	8	Moderate yellowish brown, moist, SILT, trace of fine sand						
			10									
			12									
			12									
	7	12'-14'	6	24"/18"	16	Moderate yellowish brown, moist, SILT, trace of fine sand						
			6									
			7			Medium grey, damp, silty CLAY	12'6"					
			8									
	8	14'-16'	5	24"/18"	17	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			6									
15			8									
			8									
	9	16'-18'	4	24"/18"	13	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
			6									
			7									
	10	18'-20'	3	24"/24"	5	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			3									
			4									
			5									
20	11	20'-22'	2	24"/18"	11	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			3									
			3									
			5									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 8.5' to 13.5'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER MW B-19A SHEET 2 OF 2
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE: NA DEPTH: NA ELEVATION: NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 24" splitspoon HAMMER: 140 lbs.

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

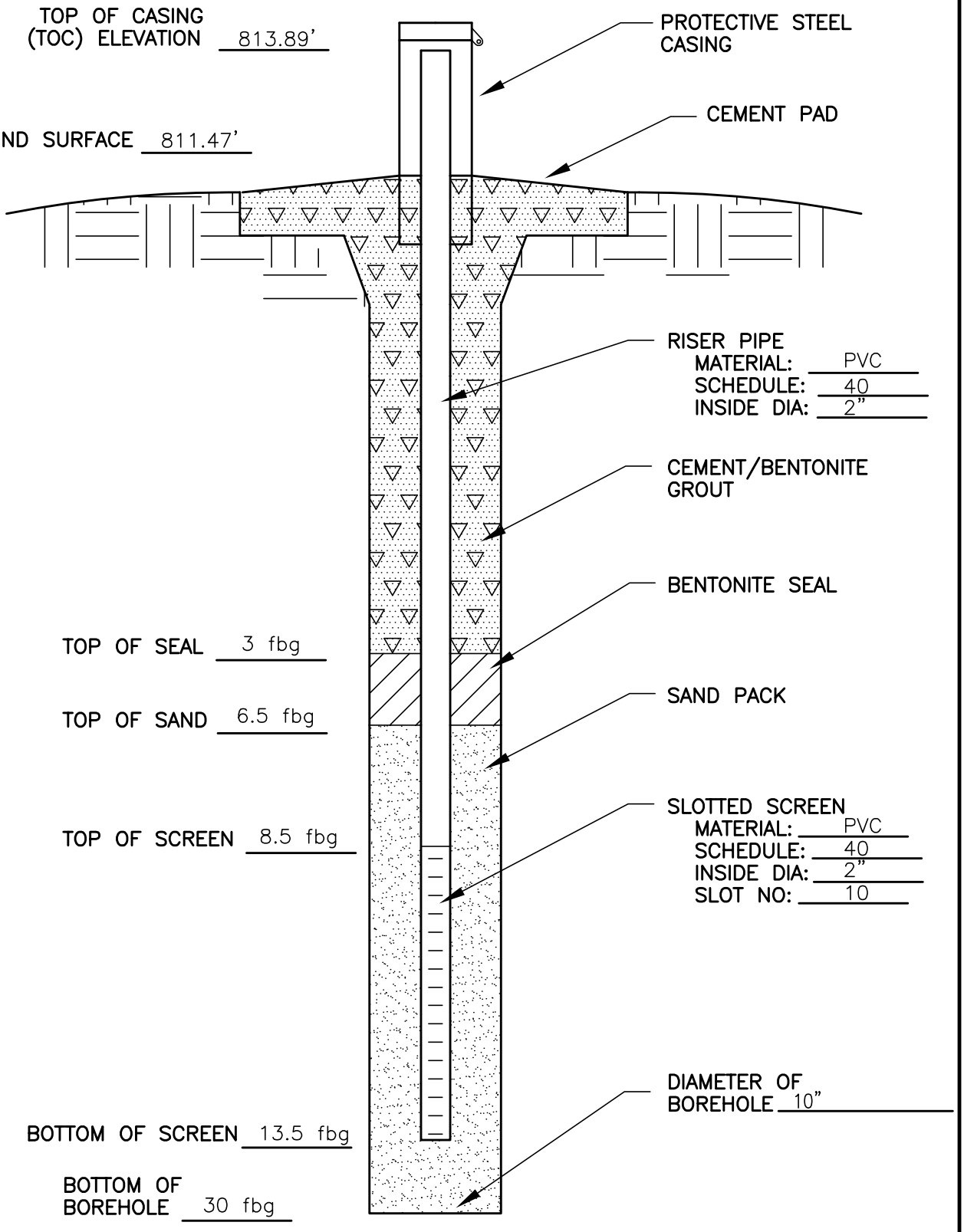
BORING LOCATION: Northwest of landfill, west of railroad tracks
GROUND ELEVATION: N/A
DATES: STARTED: 4/24/95 ENDED: 4/24/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS
		22'-24'	3	24"/12"	24	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
			5									
			7									
		24'-26'	4	24"/18"	7	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
25			7									
			9									
		26'-28'	4	24"/24"	21	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			7									
			9									
			10									
		28'-30'	2	24"/24"	12	Medium dark grey, damp, silty CLAY, trace of fine gravel						
			4									
			6									
			7									
30						E.O.B. @ 30 f.b.g.						

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 9.5' to 13.5'.

O'BRIEN & GERE
ENGINEERS INC.



COLDWATER ROAD LANDFILL
FLINT, MICHIGAN
MONITORING WELL B-19A

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O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

BORING I.D.: B-19AR

CLIENT:	**REALM**
PROJECT NAME:	**Replacement Wells**
PROJECT LOCATION:	**Coldwater Road Landfill**
FILE NO.:	**4966/34167 #4**
BORING COMPANY:	**Prosonic Corporation**
FOREMAN:	**Rodney Parr**
OBG GEOLOGIST:	**Mike Robison**
Boring Location:	NW portion of landfill Replacement well is located to the NW of B-19A
Drilling equipment:	ATV Rotosonic Rig
Sampling equipment:	10 ft length 4-inch diam. core barrel
Borehole Diameter:	6-inch override casing for core barrels
Total Depth:	47 ft below grade
Start date:	3/15/2005
Completion date:	3/15/2005

Surface Elevation (ft MSL):810.48
Top of Casing Elevation (ft MSL): 813.15

Depth to ground water: 27.15' BTOC

LEGEND: / Cement/grout; === Screen; #0 Sand Pack; Riser; Bentonite seal

DEPTH BELOW GRADE	CORE INTERVAL (ft bg)	PENETR/ RECOVERY (ft bg)	SAMPLE DESCRIPTION	STRATUM CHANGE GENERAL DESCRIPT	Equipment Installed	Field Testing: PID Headspace	Field Testing: Notes
40							
41			medium gray (N5), hydrated/wet, sandy CLAY	41'			
42			medium gray (N5), moist, CLAY				
43							
44							
45							
46							
47			END OF BORING @ 47 FBG				

Notes:
1. Rotosonic rig used for drilling; therefore, no blow counts.
2. No soil samples collected for laboratory submittal.
3. Subsequent to soil sampling activities, an above-grade monitoring well was installed using 2-inch PVC riser flush threaded to a 10 ft length of 0.010 inch slot PVC well screen extending from 34-44 feet below grade.
4. Well is a stickup with protective cover.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-20D SHEET 1 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: Northeast area of landfill
GROUND ELEVATION: N/A
DATES: STARTED: 4/28/95 ENDED: 5/1/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS
0	1	0'-2'	10	24"/24"	44	Moderate yellowish brown, damp, silty CLAY trace of fine to medium gravel						
			21									
			23									
			17									
	2	2'-4'	9	24"/24"	20	Moderate yellowish brown, damp, silty CLAY trace of fine to medium gravel						
			10									
			10									
			8									
	3	4'-6'	5	24"/24"	16	Mottled, damp, silty CLAY, trace of fine to medium gravel						
			9									
5			7									
			5									
	4	6'-8'	4	24"/18"	9	Mottled, damp, silty CLAY, trace of fine to medium gravel						
			5									
			4									
			4									
	5	8'-10'	3	24"/20"	9	Moderate yellowish brown, damp SILT some clay, grades to medium grey	8'					
			5									
			4									
			4									
10	6	10'-12'	3	24"/24"	8	Moderate yellowish brown, damp SILT, some clay, grades to medium grey						
			4									
			4									
			5									
	7	12'-14'	4	24"/18"	7	Medium grey, moist SILT, little clay						
			4									
			3									
			6									
	8	14'-16'	3	24"/18"	8	Medium grey, moist SILT, little clay						
			4									
15			4									
			3									
	9	16'-18'	1	24"/18"	3	Soft, medium grey, wet, clayey SILT						
			1									
			2									
			3									
	10	18'-20'	4	24"/24"	13	Medium grey, moist SILT, little clay						
			5									
			8									
			7									
20	11	20'-22'	7	24"/18"	15	Medium grey, moist to wet SILT, trace of clay						
			6									
			9									
			9									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed with 10 inch diameter steel casing set to 30 fbg, well constructed of 2 inch diameter, schedule 40 PVC casing with 5 feet of 0.010 inch slot well screen extending from 83' to 88'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER MW B-20D SHEET 2 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE DEPTH ELEVATION NA NA NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 24" splitspoon HAMMER: 140 lbs.
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby	BORING LOCATION: Northeast area of landfill GROUND ELEVATION: N/A DATES: STARTED: 4/28/95	ENDED: 5/1/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	RMKS*
		22'-24'	5	24"/12"	14	Medium grey, wet SILT, trace of clay						
			6									
			8									
			9									
		24'-26'	5	24"/18"	13							
			6			Medium grey, damp, silty, CLAY	24' 6"					
25			7			trace of fine to medium gravel						
			7									
		26'-28'	3	24"/24"	9	Medium grey, damp, silty, CLAY						
			4			trace of fine to medium gravel						
			5									
			7									
		28'-30'	2	24"/24"	11	Medium grey, damp, silty CLAY						
			5			trace of fine to medium gravel						
			6									
			8									
30		30'-32'	2	24"/24"	9	Medium grey, damp, silty CLAY						
			4			trace of fine to medium gravel						
			5									
			7									
		32'-34'	1	24"/24"	7	Medium grey, damp, silty CLAY						
			3			trace of fine to medium gravel						
			4									
			6									
		34'-36'	2	24"/24"	6	Medium grey, damp, silty CLAY						
			3			trace of fine to medium gravel						
35			3									
			6									
		36'-38'	3	24"/24"	7	Medium grey, damp, silty CLAY						
			3			trace of fine to medium gravel						
			4									
			5									
		38'-40'	2	24"/24"	6	Medium grey, damp, silty CLAY						
			2			trace of fine to medium gravel						
			3									
			4									
40		40'-42'	1	24"/24"	5	Medium grey, damp, silty CLAY						
			2			trace of fine to medium gravel						
			3									
			5									
		42'-44'	2	24"/24"	5	Medium grey, damp, silty CLAY						
			2			trace of fine to medium gravel						
			3									
			4									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed with 10 inch diameter steel casing set to 30 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 83' to 88'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-20D SHEET 3 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby	BORING LOCATION: Northeast area of landfill GROUND ELEVATION: N/A DATES: STARTED: 4/28/95	ENDED: 5/1/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARK
		44'-46'	1	24"/24"	6	Medium grey, damp, silty CLAY trace of fine to medium gravel						
			3									
45			3									
			5									
		46'-48'	2	24"/24"	7	Medium grey, damp, silty CLAY trace of fine to medium gravel						
			3									
			4									
			4									
		48'-50'	2	24"/24"	5	Medium grey, damp, silty CLAY trace of fine to medium gravel						
			2									
			3									
			5									
50		50'-52'	2	24"/24"	6	Medium grey, damp, silty CLAY trace of fine to medium gravel						
			2									
			4									
			5									
		52'-54'	2	24"/24"	7	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			2									
			5									
			8									
		54'-56'	2	24"/24"	7	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			3									
55			4									
			7									
		56'-58'	2	24"/24"	10	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			4									
			6									
			8									
		58'-60'	2	24"/24"	11	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			4									
			7									
			8									
60		60'-62'	2	24"/24"	10	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			4									
			6									
			9									
		62'-64'	2	24"/24"	6	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			2									
			4									
			6									
		64'-66'	2	24"/24"	6	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			2									
65			4									
			8									

Notes:

1. "NA" denotes information not available.
2. Monitoring well construction with 10 inch diameter steel casing set to 30 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 83' to 88'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-20D SHEET 4 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: Northeast area of landfill
GROUND ELEVATION: N/A
DATES: STARTED: 4/28/95 ENDED: 5/1/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	R M K
		66'-68'	2	24"/24"	4	Medium to dark grey, silty, CLAY trace of fine to medium gravel						
			2									
			2									
			3									
		68'-70'	2	24"/20"	5	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			2									
			3									
			1									
70		70'-72'	2	24"/24"	7	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			3									
			4									
			6									
		72'-74'	2	24"/24"	9	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			4									
			5									
			6									
		74'-76'	2	24"/24"	7	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			3									
75			4									
			5									
		76'-78'	1	24"/24"	8	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			3									
			5									
			7									
		78'-80'	2	24"/24"	8	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			4									
			4									
			7									
80		80'-82'	2	24"/24"	12	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			5									
			7									
			8									
		82'-84'	2	24"/24"	7	Dark grey, damp, silty, CLAY trace of fine to medium gravel						
			3									
			4			Moderate brownish grey, wet SILT some fine and very fine sand	83'					
			6									
		84'-86'	1	24"/24"	13	Moderate brownish grey, wet SILT some fine and very fine sand						
			5									
85			8									
			5									
		86'-88'	2	24"/24"	7	Moderate brownish grey, wet SILT some fine and very fine sand						
			3									
			4									
			7									
		88'-90'	4	24"/24"	8	Medium grey, wet SILT, some fine to very fine sand						
			4									
			4			Medium grey, wet clayey SILT, trace of fine to very fine sand						
			6									
90						E.O.B. @ 90 fbg						

Notes:

1. "NA" denotes information not available.
2. Monitoring well construction with 10 inch diameter steel casing set to 30 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 83' to 88'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-21D SHEET 1 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE: NA DEPTH: NA ELEVATION: NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby	BORING LOCATION: East central area of landfill GROUND ELEVATION: NA DATES: STARTED: 4/26/95	ENDED: 5/2/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS
0	1	0'-2'	7	24"/24"	16	Moderate yellowish brown, crumbly, dry silty, CLAY						
			8									
			8									
			9									
	2	2'-4'	7	24"/24"	17	Moderate yellowish brown, crumbly, dry silty, CLAY						
			8									
			9									
			10									
	3	4'-6'	7	24"/24"	16	Moderate yellowish brown, crumbly, dry silty, CLAY, grades to silt						
			7									
5			9									
			11			Moderate yellowish brown SILT, damp trace of clay	5'6"					
	4	6'-8'	6	24"/24"	14							
			7									
			7									
			9									
	5	8'-10'	5	24"/24"	16	Moderate yellowish brown SILT, damp trace of clay						
			7									
			9			Moderate yellowish brown, damp SILT, some very fine sand						
			8									
10	6	10'-12'	5	24"/18"	14	Moderate yellowish brown, damp SILT, some very fine sand						
			7									
			7									
			9									
	7	12'-14'	5	24"/18"	18	Moderate yellowish brown, damp SILT, some very fine sand						
			8									
			10									
			9									
	8	14'-16'	6	24"/	15	Moderate yellowish brown, damp SILT, some very fine sand						
			7									
15			8									
			8									
	9	16'-18'	5	24"/18"	13	Moderate yellowish brown, damp SILT, some very fine sand						
			6									
			7									
			7									
	10	18'-20'	6	24"/24"	15	Moderate yellowish brown, damp SILT, some very fine sand						
			7									
			8									
			10									
20	11	20'-22'	6	24"/24"	16	Moderately yellowish brown wet SILT, little very fine sand grades to medium grey						
			7									
			9									
			10									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed with 10 inch diameter steel casing set to 30.5 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 91' to 96'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER MW B-21D SHEET 2 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE: NA DEPTH: NA ELEVATION: NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 24" splitspoon HAMMER: 140 lbs.
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby	BORING LOCATION: East central area of landfill GROUND ELEVATION: NA DATES: STARTED: 4/26/95	ENDED: 5/2/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE DEPTH	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMARKS
		22'-24'	6	24"/20"	14	Medium grey, wet SILT, little very fine sand						
			7									
			7									
			6									
		24'-26'	7	24"/18"	13	Medium grey, wet SILT, little very fine sand						
			8									
25			5									
			5			Medium grey, damp, silty CLAY	25'6"					
		26'-28'	7	24"/12"	9							
			5			possible silt lens was wet 26'6" - 27'						
			4			Medium grey, damp silty CLAY,						
			4			trace of fine to medium gravel						
		28'-30'	3	24"/18"	11	Medium grey, damp silty CLAY,						
			5			trace of fine to medium gravel						
			6			two inches of wet sand lens @ 28'8" -28'10"						
			8									
30		30'-32'	2	24"/18"	8	Medium grey, damp silty CLAY,						
			4			trace of fine to medium gravel						
			4									
			6									
		32'-34'	5	24"/24"	16	Medium grey, damp silty CLAY,						
			7			trace of fine to medium gravel						
			9									
			10									
		34'-36'	5	24"/24"	10	Medium grey, damp silty CLAY,						
			4			trace of fine to medium gravel						
35			6									
			7									
		36'-38'	2	24"/24"	6	Medium grey, damp silty CLAY,						
			3			trace of fine to medium gravel						
			3									
			4									
		38'-40'	2	24"/24"	7	Medium grey, damp silty CLAY,						
			3			trace of fine to medium gravel						
			4									
			5									
40		40'-42'	3	24"/24"	7	Medium grey, damp silty CLAY,						
			3			trace of fine to medium gravel						
			4									
			5									
		42'-44'	3	24"/24"	8	Medium grey, damp silty CLAY,						
			3			trace of fine to medium gravel						
			5									
			6									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed with 10 inch diameter steel casing set to 30.5 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 91' to 96'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-21D SHEET 3 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"
O'BRIEN & GERE GEOLOGIST: Anthony J. Finch BORING CO.: Carlo Environmental Technologies FOREMAN: Paul Libby	BORING LOCATION: East central area of landfill GROUND ELEVATION: NA DATES: STARTED: 4/26/95	ENDED: 5/2/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	FIELD TESTING SP. COND	FIELD TESTING PID	REMK
		44'-46'	2	24"/12"	8	Medium grey, damp silty CLAY, trace of fine to medium gravel						
			3									
45			5									
			6									
		46'-48'	2	24"/24"	7	Medium grey, damp silty CLAY, trace of fine to medium gravel						
			3									
			4									
			6									
		48'-50'	2	24"/24"	8	Medium grey, damp silty CLAY, trace of fine to medium gravel						
			3									
			5									
			6									
50		50'-52'	2	24"/24"	5	Medium grey, damp silty CLAY, trace of fine to medium gravel						
			2									
			3									
			3									
		52'-54'	1	24"/24"	4	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			1									
			3									
			4									
		54'-56'	2	24"/24"	5	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			2									
55			3									
			5									
		56'-58'	1	24"/24"	5	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			2									
			3									
			4									
		58'-60'	2	24"/24"	6	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			2									
			4									
			5									
60		60'-62'	2	24"/24"	8	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
			5									
			7									
		62'-64'	2	24"/24"	9	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
			6									
			6									
		64'-66'	1	24"/24"	7	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
65			4									
			6									

Notes:

1. "NA" denotes information not available.
2. Monitoring well constructed with 10 inch diameter steel casing set to 30.5 fbg, well constructed of 2 inch diameter, schedule 40 PVC well casing with 5 feet of 0.010 inch slot well screen extending from 91' to 96'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	LOG NUMBER: MW B-21D SHEET 4 OF 4
CLIENT General Motors Corporation PROJECT LOCATION GM Delphi Coldwater Facility Flint, Michigan	GROUND WATER DATE / DEPTH / ELEVATION NA / NA / NA	FILE No.:4144.006 DRILLING METHOD: Hollow stem auger SAMPLER TYPE: 2" Splitpoon HAMMER: 140 lbs. FALL: 30"

O'BRIEN & GERE GEOLOGIST: Anthony J. Finch
BORING CO.: Carlo Environmental Technologies
FOREMAN: Paul Libby

BORING LOCATION: East central area of landfill
GROUND ELEVATION: NA
DATES: STARTED: 4/26/95 ENDED: 5/2/95

DEPTH	SAMPLE No.	SAMPLE DEPTH	BLOWS /6"	PENETRATION RECOVERY	"N" VALUE	SAMPLE DESCRIPTION	STRATUM CHANGE	EQUIPMENT INSTALLED	FIELD TESTING SAL. 0/00	SP. COND	PID	R M K
		66'-68'	2	24"/24"	6	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			2									
			4									
			5									
		68'-70'	1	24"/24"	9	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
			6									
			7									
70		70'-72'	1	24"/24"	10	Medium to dark grey, damp,silty CLAY trace of fine to medium gravel						
			4									
			6									
			7									
		72'-74'	1	24"/24"	7	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
			4									
			7									
		74'-76'	1	24"/24"	8	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
75			5									
			7									
		76'-78'	2	24"/24"	8	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
			5									
			7									
		78'-80'	4	24"/NR	20	No recovery, drove a rock						
			9									
			11									
			13									
80		80'-82'	3	24"/24"	10	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			4									
			6									
			7									
		82'-84'	1	24"/24"	6	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			2									
			4									
			8									
		84'-86'	2	24"/24"	8	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			3									
85			5									
			7									
		86'-88'	4	24"/24"	13	Medium to dark grey, damp silty CLAY trace of fine to medium gravel						
			6									
			7									
			7									
		88'-90'	3	24"/24"	10							
			4									
			6									
			8									
		90'-92'	2	24"/24"	7							
			3			Medium to dark grey, wet SILT, little clay	91'9"					
			4									
			7									
		92'-94'	3	24"/24"	9							
			4			Medium to dark grey, wet SILT,	93' 3"					
			5			grades to wet fine sand						
			6									

E.O.B. @ 94 fbg

ATTACHMENT B

FIELD DATA RECORDS

CRA
CONESTOGA-ROVERS & ASSOCIATES

9/12/11

PROJECT No.: 12636
PROJECT NAME: Peregrine / Coldwater Rd
DATE:

DESIGNED BY: SSH
CHECKED BY:
PAGE 1 OF 1

MW	H_2O level
16-10	68.20
15-10	78.34
PFW-10	3.85
PFW-11	1.88
PFW-4	4.51
2-02	9.83
4-02	11.99
PFW-1	79.26
3	10.88
1-02	13.55
2	4.54
1	4.41
PFW-2	8.19
PFW-9	8.76
B-9	8.30
B-20	55.39
19A	9.90
270	77.88

Location	Sample key date	Sample #
TB	9/12	-001
PFW-4		-002
MW-2		-003
PFW-2		-004
MW-1		-005
PFW-9		-006
TB	9/13	-007
PFW-10		-008
MW4-02		-009
PFW-1		-010
MW15-10		-011 + 013 dup
PFW-11		-012
MW16-10	9/14	-014
B-9		-015 MS/MSD
B-19A		-016/017 dup
B-270		-018
B-20		-019
MW18A		-020
TB		-021
B7	9/15	-022
19AR		-023
21D		-024
20D		-025

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # Nº D 9895

SSOW Ref. Code: 12536 TM 03

Required Client Information:

Company: CRA, Inc.	Report To: Bill Wilson
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: Fairchild
Fax: 734-453-5201	Project Number: 12536
Email:	

Laboratory:	Test America
Laboratory Location:	Nashville
Laboratory Contact:	Dawn Hall
Requested Due Date:	TAT: 20
QA/QC Requirements:	

Analysis and Method

Preservative

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	Methane, Ethane, Ethene	Dissolved Metals									Remarks/Lab ID
1. FB-12536-071411-JV-001	WQ	7.14.11	-	1		X					X											
2. GW-12536-MW16-JV-002	WG		1215	6		X		X	X		X	X	X	X								
3. " -003			1230	6		X		X	X		X	X	X	X								
4. " -004			1356	5		X		X	X		X	X	X									
5. " -005			1302	5		X		X	X		X	X	X									
6. GW-12536-MW11-JV-006	V	V	1530	5		X		X	X		X	X	X									
7.																						
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
TOTAL NUMBER OF CONTAINERS																						

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Fed Ex	1		7.14.11	1703			
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments: Diss. = Field Filtered

Sampler Name:

Sampler Signature: Date:

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

REV: 0 (6.04)

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # № D 9897

SSOW Ref. Code: 12630-109-[illegible]

Required Client Information:

Company: CRA, Inc.	Report To: [illegible]
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: [illegible]
Fax: 734-453-5201	Project Number: 12630
Email:	

Laboratory: Test America	
Laboratory Location: North Canton OH	
Laboratory Contact: [illegible]	
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	VOC TCL	Metals	[illegible]	Diss. Metals								Remarks/Lab ID
1. TB-12630-091311-JY-007	WQ	9-13-11	—	1		X					X											
2. GW-12630-091311-JY-008	WG		0850	5		X		X	X		X	X	X									
3. -009			1020	5		X		X	X		X	X	X									
4. -010			1130	6		X		X	X		X	X	X	X								
5. -011			1130	6		X		X	X		X	X	X	X								
6. -012			1200	6		X		X	X		X	X	X	X								
7. GW-12630-091311-JY-013			1410	6		X		X	X		X	X	X	X								
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
TOTAL NUMBER OF CONTAINERS																						

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Fed Ex	1	[signature]	9-13-11	1700			
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments: Diss. Metals Field Filtered

Sampler Name: [illegible]

Sampler Signature: [signature] Date: 9-13-11

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

REV 016/04

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # Nº D 9821

SSOW Ref. Code: 2056 - Tag - 003

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wilson
Address: 14496 Sheldon Rd.	Copy To: Mike Tomka
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: Pleasant Valley
Fax: 734-453-5201	Project Number: 12636
Email:	

Laboratory:	Test America
Laboratory Location:	North Canton OH
Laboratory Contact:	Brent Hickle
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	TCL SVOCs	TCL Pest/PCBs	TAL Metals	Remarks/Lab ID
1.	GW-12636-091411-JV-014	WG	9/14/11	0900	6		X		X	X		X	X	X	X	
2.	-015			1015	3		X		X	X		X	X	X		ms/msd
3.	-016			1126	3		X		X	X		X	X	X		
4.	-017			1130	3		X		X	X		X	X	X		
5.	-018			1241	6		X		X	X		X	X	X	X	
6.	-019			1345	6		X		X	X		X	X	X	X	
7.	-020			1350	6		X		X	X		X	X	X	X	
8.	TB-12636-091411-JV-021	WQ		1600	1		X					X				
9.																
10.																
11.																
12.																
13.																
14.																
15.																
	TOTAL NUMBER OF CONTAINERS				46											

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Fedex	1	[signature]	9/14/11	1730			
AIRBILL NO. 2226 5494 0204							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: J. Vervaeke J-Team

Sampler Signature: [signature] Date: 9/14/11

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

REV. 0 (6.04)

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # № D 9638

SSOW Ref. Code: 12636-T09-003

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wittman
Address: 14496 Sheldon Rd.	Copy To: Mike Tomlin
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: Huron Cold...
Fax: 734-453-5201	Project Number: 12636-T09-003
Email:	

Laboratory: Test America	
Laboratory Location: North Canton, OH	
Laboratory Contact: Denise Heckler	
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method: TCL VOCs	CN A(?)	T metals	Dis metals								Remarks/Lab ID
1.	GW-12636-091511-SCM-022	WG	9/15/11	0926	6		X		X	X		X	X	X	X								
2.	-023	|	|	1047	6		X		X	X		X	X	X	X								
3.	-024	|	|	1301	6		X		X	X		X	X	X	X								
4.	-025	|	|	1426	6		X		X	X		X	X	X	X								
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							
	TOTAL NUMBER OF CONTAINERS																						

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FedEx	1	[signature] / CRA	9/15/11	1700			
AIRBILL NO. 8762 3286 7709							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments: DIS - field filtered

Sampler Name: Steve Hoi...
Sampler Signature: [signature]
Date: 9/15/11

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

REV 01/6/04)

(QSF-251D)

FIELD DATA RECORD FORM
METER, WATER LEVEL

Control No.: 6921
Date: 9-12-11
User: J.Y.

Project No.: 12636
Project Name: Peregrine
Location: Flint, Mich

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check for broken or missing parts.	☒
• Check push button for operation of buzzer.	☒
• Check operation of signal light.	☒
• Try probe in water to see if unit operates, check rotary sensitivity switch if so equipped.	☒
• Check cable for cuts resulting in bare wire.	☒

Filing: Field File

Signature: John Smith

(QSF-421D)

FIELD DATA RECORD FORM
METER, TURBIDITY (PORTABLE) HACH 2100P

Control No.: 6928
Date: 9-12-11
User: J.Y

Project No.: 12636
Project Name: Peregrine
Location: Flint, Mich.

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Do Not Calibrate in the Field - In-House Calibration Only by Field Equipment Manager

Check when completed

Check kit contents:

- Meter ☐
- Low 0-10, medium 0-100, high 0-1000 standards ☐
- Extra AA batteries ☐
- Sample vials ☐

Test and record Gelex standards: ☐

	Gelex Standard	*Meter Reading*
• Low 0-10	6.19	5.38
• Medium 0-100		
• High 0-1000		

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field File

Signature: John Yost

FIELD DATA RECORD FORM
METER, PH/COND./TEMP./DO/ORP/TDS/SALINITY/FLOW CELL, QED MP-20

(QSF-422D)

Control No.: 6955 **Project No.:** 12636
Date: 9-12-11 **Project Name:** Peregrine
User: J.Y. **Location:** Flats Mod.

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check kit contents.	☒
• Check battery level. Change if at or less than 3 volts.	
• Check pH 7 buffer reading. Calibrate if greater than ±0.2.	Reading 4.05 / 6.95
PH is a two point calibration but always start with the seven standard.	
• Fill calibration cup ½ full with pH 7.0 buffer and attach to probe with probes facing down.	Calibrated (Y) / N
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start pH symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Fill calibration cup ½ full with pH 4 or 10 buffer and attach to probe with probes facing down.	
• Repeat steps 3 and 4.	
• Press Esc to return to the real time data screen.	
Check conductivity standard near the expected range. Calibrate if greater than ±0.5%.	Standard 4.49 / Reading 4.49
Conductivity is a one point calibration.	Calibrated (Y) / N
• Fill calibration cup ½ full with 0.7 mS standard and attach to probe with probes facing up.	
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start SpC symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Press Esc to return to the real time data screen.	
Check DO-probe for air bubbles and change membrane and solution if needed (see manual for instructions).	✓

Filing: Field File

7.00 Lot# C040080 Exp 1/2012
Auto-Cal " C142947 5/2012

Signature: John

FIELD DATA RECORD FORM
METER, PH/COND./TEMP./DO/ORP/TDS/SALINITY/FLOW CELL, QED MP-20

(QSF-422D)

Control No.: 04615
Date: 9/14/11
User: SSH

Project No.: 12636
Project Name: Pergrim / Coldwater
Location: Flint, MI

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check kit contents.	☒
• Check battery level. Change if at or less than 3 volts.	
• Check pH 7 buffer reading. Calibrate if greater than ±0.2.	Reading 7.02
PH is a two point calibration but always start with the seven standard.	
• Fill calibration cup ½ full with pH 7.0 buffer and attach to probe with probes facing down.	Calibrated (Y) / N
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start pH symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Fill calibration cup ½ full with pH 4 or 10 buffer and attach to probe with probes facing down.	
• Repeat steps 3 and 4.	
• Press Esc to return to the real time data screen.	
Check conductivity standard near the expected range. Calibrate if greater than ±0.5%.	Standard 4.49 Reading 4.49
Conductivity is a one point calibration.	Calibrated (Y) N
• Fill calibration cup ½ full with 0.7 mS standard and attach to probe with probes facing up.	
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start SpC symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Press Esc to return to the real time data screen.	
Check DO-probe for air bubbles and change membrane and solution if needed (see manual for instructions).	

Filing: Field File

Signature: [signature]

(QSF-421D)

FIELD DATA RECORD FORM
METER, TURBIDITY (PORTABLE) HACH 2100P

Control No.: NF05039
Date: 9/14/11
User: SSH

Project No.: 12636
Project Name: Portsmouth / Coldwater
Location: Flint MI

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Do Not Calibrate in the Field - In-House Calibration Only by Field Equipment Manager

Check when completed

Check kit contents;

- Meter ☒
- Low 0-10, medium 0-100, high 0-1000 standards ☒
- Extra AA batteries ☒
- Sample vials ☐

Test and record Gelex standards: ☒

	Gelex Standard	*Meter Reading*
• Low 0-10	6.67	5.51
• Medium 0-100	54.8	57.5
• High 0-1000	478	493

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field File

Signature: [signature]

(QSF-251D)

FIELD DATA RECORD FORM
METER, WATER LEVEL

Control No.: 06915
Date: 9/14/11
User: SSH

Project No.: Peregrine / Coldwater
Project Name: 12630

Location: Flint, MI

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check for broken or missing parts.	☒
• Check push button for operation of buzzer.	☒
• Check operation of signal light.	☒
• Try probe in water to see if unit operates, check rotary sensitivity switch if so equipped.	☒
• Check cable for cuts resulting in bare wire.	

Filing: Field File

Signature: [signature]

FIELD DATA RECORD FORM
METER, PH/COND./TEMP./DO/ORP/TDS/SALINITY/FLOW CELL, QED MP-20

(QSF-422D)

Control No.: 6955
Date: 9-13-11
User: J.Y.

Project No.: 12636
Project Name: Peregrine
Location: Flat. Mtl.

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Check when completed

- Check kit contents. ☐
- Check battery level. Change if at or less than 3 volts.
- Check pH 7 buffer reading. Calibrate if greater than ±0.2. — Reading 4.03 / 7.04

PH is a two point calibration but always start with the seven standard. — Calibrated (Y) / N

- Fill calibration cup ½ full with pH 7.0 buffer and attach to probe with probes facing down.
- Use ← key to start the calib symbol to flashing and press enter ↵.
- Use ↓ key to start pH symbol to start flashing and press enter ↵.
- Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.
- Fill calibration cup ½ full with pH 4 or 10 buffer and attach to probe with probes facing down.
- Repeat steps 3 and 4.
- Press Esc to return to the real time data screen.

Check conductivity standard near the expected range. Calibrate if greater than ±0.5%. — Standard 4.49, Reading 4.46, Calibrated (Y) / N

Conductivity is a one point calibration.

- Fill calibration cup ½ full with 0.7 mS standard and attach to probe with probes facing up.
- Use ← key to start the calib symbol to flashing and press enter ↵.
- Use ↓ key to start SpC symbol to start flashing and press enter ↵.
- Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.
- Press Esc to return to the real time data screen.

Check DO-probe for air bubbles and change membrane and solution if needed (see manual for instructions). ✓

Filing: Field File

Signature: [signature]

	Lot #	Exp.
7.00	C040080	11/2012
Auto-Cal	C142947	5/2012

(QSF-421D)

FIELD DATA RECORD FORM
METER, TURBIDITY (PORTABLE) HACH 2100P

Control No.: 6928
Date: 9-13-11
User: J.Y.

Project No.: 12636
Project Name: Peregrine
Location: Flint, Mich

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Do Not Calibrate in the Field - In-House Calibration Only by Field Equipment Manager

Check when completed

Check kit contents;

- Meter ☒
- Low 0-10, medium 0-100, high 0-1000 standards ☒
- Extra AA batteries ☒
- Sample vials ☒

Test and record Gelex standards: ☒

	Gelex Standard	*Meter Reading*
• Low 0-10	6.19	5.39
• Medium 0-100		
• High 0-1000		

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field File

Signature: John

FIELD DATA RECORD FORM
METER, WATER LEVEL

(QSF-251D)

Control No.: 6921
Date: 9-13-11, 9-14-11
User: J.Y.

Project No.: 12636
Project Name: Peregrine

Location: Flint, Mich

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check for broken or missing parts.	
• Check battery	☒
• Check operation of buzzer.	☒
• Check operation of signal light.	☒
• Test probe in water to ensure unit operates, both visually and audibly.	☒
• Check cable.	☒

Filing: Field File

Signature: John York

T.G.S. →

THIS COMPLETED FORM IS A QUALITY RECORD

(QSF-421D)

FIELD DATA RECORD FORM
METER, TURBIDITY (PORTABLE) HACH 2100P

Control No.: 6928
Date: 9-14-11
User: JK

Project No.: 12636
Project Name: Peregrine

Location: Flats Mesa

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Do Not Calibrate in the Field - In-House Calibration Only by Field Equipment Manager

Check when completed

Check kit contents;

- Meter ☒
- Low 0-10, medium 0-100, high 0-1000 standards ☒
- Extra AA batteries ☒
- Sample vials ☒

Test and record Gelex standards: ☒

	Gelex Standard	*Meter Reading*
• Low 0-10	6.19	5.41
• Medium 0-100		
• High 0-1000		

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field File

Signature: [signature]

FIELD DATA RECORD FORM
METER, PH/COND./TEMP./DO/ORP/TDS/SALINITY/FLOW CELL, QED MP-20

(QSF-422D)

Control No.: 6955
Date: 9-14-11
User: J.H

Project No.: 12636
Project Name: Pennzoil
Location: Flint Mich

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check kit contents.	☒
• Check battery level. Change if at or less than 3 volts.	
• Check pH 7 buffer reading. Calibrate if greater than ±0.2.	Reading 4.01 / 6.93
PH is a two point calibration but always start with the seven standard.	
• Fill calibration cup ½ full with pH 7.0 buffer and attach to probe with probes facing down.	Calibrated Y / N
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start pH symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Fill calibration cup ½ full with pH 4 or 10 buffer and attach to probe with probes facing down.	
• Repeat steps 3 and 4.	
• Press Esc to return to the real time data screen.	
Check conductivity standard near the expected range. Calibrate if greater than ±0.5%.	Standard 4.49 / Reading 4.50
Conductivity is a one point calibration.	Calibrated Y / N
• Fill calibration cup ½ full with 0.7 mS standard and attach to probe with probes facing up.	
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start SpC symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Press Esc to return to the real time data screen.	
Check DO-probe for air bubbles and change membrane and solution if needed (see manual for instructions).	

Filing: Field File

Signature: _____

(QSF-421D)

FIELD DATA RECORD FORM
METER, TURBIDITY (PORTABLE) HACH 2100P

Control No.: NF05039
Date: 9/15/11
User: ALH

Project No.: 17636
Project Name: Pengline / Coldwater Rd
Location: Flint, MI

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

Do Not Calibrate in the Field - In-House Calibration Only by Field Equipment Manager

Check when completed

Check kit contents;

- Meter ☒
- Low 0-10, medium 0-100, high 0-1000 standards ☒
- Extra AA batteries ☒
- Sample vials ☒

Test and record Gelex standards: ☒

	Gelex Standard	*Meter Reading*
• Low 0-10	6.67	5.53
• Medium 0-100	54.8	55.0
• High 0-1000	478	

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field File

Signature: Steven D. Thomas

(QSF-251D)

FIELD DATA RECORD FORM
METER, WATER LEVEL

Control No.: D6915
Date: 9/15/11
User: SSH

Project No.: 12636
Project Name: Pilgrim / Coldwater
Location: Flint, MI

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check for broken or missing parts.	☒
• Check push button for operation of buzzer.	☒
• Check operation of signal light.	☒
• Try probe in water to see if unit operates, check rotary sensitivity switch if so equipped.	☒
• Check cable for cuts resulting in bare wire.	☒

Filing: Field File

Signature: [signature]

FIELD DATA RECORD FORM
METER, PH/COND./TEMP./DO/ORP/TDS/SALINITY/FLOW CELL, QED MP-20

(QSF-422D)

Control No.: DEE04615
Date: 9/15/11
User: SSH

Project No.: 12636
Project Name: Pluvine / Coldwater Rd
Location: Flint, MS

Additional Equipment Control Numbers and Descriptions:

FIELD PROCEDURE BEFORE USE:

	Check when completed
• Check kit contents.	☒
• Check battery level. Change if at or less than 3 volts.	
• Check pH 7 buffer reading. Calibrate if greater than ±0.2.	Reading 7.11
PH is a two point calibration but always start with the seven standard.	
• Fill calibration cup ½ full with pH 7.0 buffer and attach to probe with probes facing down.	Calibrated (Y) / N
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start pH symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Fill calibration cup ½ full with pH 4 or 10 buffer and attach to probe with probes facing down.	
• Repeat steps 3 and 4.	
• Press Esc to return to the real time data screen.	
Check conductivity standard near the expected range. Calibrate if greater than ±0.5%.	Standard 4.49 Reading 4.66
Conductivity is a one point calibration.	Calibrated (Y) / N
• Fill calibration cup ½ full with 0.7 mS standard and attach to probe with probes facing up.	
• Use ← key to start the calib symbol to flashing and press enter ↵.	
• Use ↓ key to start SpC symbol to start flashing and press enter ↵.	
• Use ↑or ↓ to raise or lower displayed value to match the standard then press enter ↵.	
• Press Esc to return to the real time data screen.	
Check DO-probe for air bubbles and change membrane and solution if needed (see manual for instructions).	

Filing: Field File

Signature: [signature]

001 Trip Blank
002

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

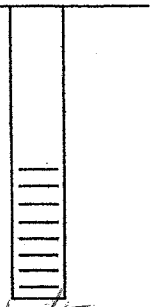
Project Name: Former Peregrine
Ref. No.: 12636

Date: 9-12-11
Personnel: S. York

Monitoring Well Data:

Well No.: PFW-4
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.51



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1100	100			20.39	1.195	59.3	0.68	8.69	-170		
1105	"			12.72	1.403	46.0	0.58	9.41	-211		
1110	"			12.73	1.408	25.7	0.47	9.44	-210		
1115	"	8.90		12.73	1.407	19.5	0.43	9.41	-208		
1120	"			12.91	1.411	19.1	0.46	9.48	-206		
1125	"	9.01		19.10	1.436	—	1.31	9.48	-200		
	Well going dry, stop			let recharge							
1215		Collect (Grab-12636-091211-SY-002)			28.9						

Notes: @ 1100 well going dry, drop intake tube 1.0' (Diss. Metals Field filtered)

(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= Vp/Vs.
(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

003

Project Data:

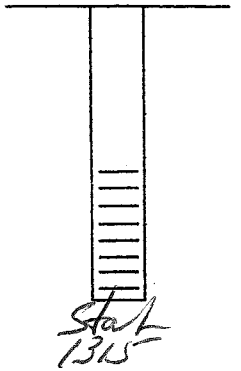
Project Name: Peregrine
Ref. No.: 12636

Date: 9-12-11
Personnel: E. York

Monitoring Well Data:

Well No.: MW-2
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.54



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1340	100			17.57	0.985	11.9	0.55	6.95	-187		
1345	"			17.83	0.940	11.0	0.54	6.97	-187		
1350	"	✓		17.90	0.866	13.2	0.55	6.99	-187		
1355	"	9.63		17.40	0.668	20.6	0.53	7.01	-186		
1400	"			17.57	0.566	23.7	0.70	6.97	-171		
1405	"			17.66	0.554	26.7	1.36	6.90	-147		
1410	"			17.69	0.538	26.8	1.86	6.84	-135		
1415	"			17.68	0.542	19.3	2.34	6.79	-131		
1420	"	✓		17.80	0.551	18.3	2.53	6.77	-129		
1425	"	12.84		17.93	0.553	17.4	2.59	6.77	-128		
1430	"			18.01	0.559	17.0	2.67	6.77	-127		
	Collect	"003"									

(Diss. Metals Field Filtered)

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= Vp/Vs.
(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: Peregrine / Goldwater

Ref. No.: 0-12636

Date: 9/12/11

Personnel: SSH

Monitoring Well Data:

Well No.: PFW-2

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

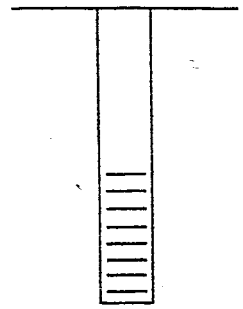
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 8.19



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1315	100	8.19									
1345		9.34		17.58	0.670	9.85	0.39	7.34	-80		
1350		9.36		17.62	0.670	1.38	0.37	7.33	-81		
1355		9.36		17.55	0.671	2.09	0.35	7.33	-81		
sample 1356											

W-12636-091211-JH-004

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= Vp/Vs.

(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.

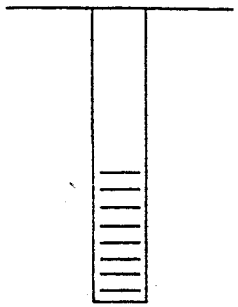
MONITORING WELL RECORD FOR LOW-FLOW PURGING

005

Project Data:

Project Name: Purging / Coldwater
Ref. No.: 12636

Date: 9/12/11
Personnel: SSH



Monitoring Well Data:

Well No.: MW-1
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 4.41

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1410	100	4.41									
1440		8.82		17.91	0.240	6.16	0.45	7.31	-154		
1445		9.29		17.77	0.248	5.84	0.41	7.30	-156		
1450		9.84		17.99	0.260	5.34	0.38	7.30	-156		
1455		10.31		17.84	0.261	5.50	0.37	7.30	-155		
1500		10.72		17.77	0.262	5.24	0.37	7.30	-154		
sample	1502										

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= Vp/Vs.

(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.

W-12636-091211-SH-005

MONITORING WELL RECORD FOR LOW-FLOW PURGING

006

Project Data:

Project Name: Peregrine

Ref. No.: 12636

Date: 9-12-11

Personnel: S. York

Monitoring Well Data:

Well No.: PFW-9

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

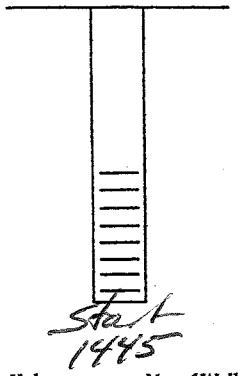
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 8.76



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1505	100			21.09	0.332	4.16	0.51	7.09	-149		
1510	"			21.10	0.317	—	0.45	7.09	-149		
1515	"			21.28	0.296	2.90	0.43	7.10	-150		
1520	"			21.27	0.280	—	0.42	7.10	-150		
1525	"			21.45	0.278	—	0.40	7.10	-150		
1530	"	8.91		21.27	0.274	2.37	0.39	7.11	-150		
	Collect	"006"									

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= Vp/Vs.

(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

Trip Blank - 007

I.D. "008"

Project Data:

Project Name: Racer Peregrine

Ref. No.: 12636

Date: 9-13-11

Personnel:

Monitoring Well Data:

Well No.: PFW-10

Vapour PID (ppm):

Measurement Point:

Constructed Well Depth (m/ft):

Measured Well Depth (m/ft):

Depth of Sediment (m/ft):

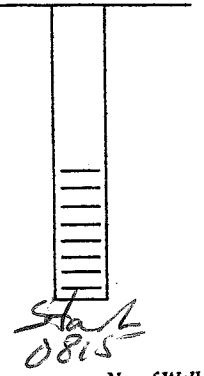
Saturated Screen Length (m/ft):

Depth to Pump Intake (m/ft)[1]:

Well Diameter, D (cm/in):

Well Screen Volume, V_s (L)[2]:

Initial Depth to Water (m/ft): 3.87



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0830	100			15.41	4.79	1.87	1.29	6.74	194		
0835	"			15.27	4.79	—	1.28	6.75	208		
0840	"			15.25	4.79	—	1.30	6.76	217		
0845	"			15.27	4.80	1.47	1.28	6.76	224		
0850	"			15.27	4.80	—	1.25	6.77	230		
0855	"	8.11		15.24	4.81	1.42	1.23	6.77	235		
	Collect "GW-12636-09/11-SV-008"										

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= Vp/Vs.

(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.

009

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

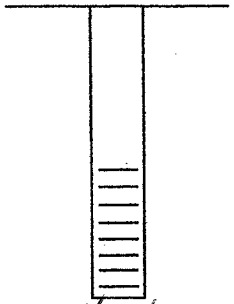
Project Name: Peregrine
Ref. No.: 12636

Date: 9-13-11
Personnel: S. York

Monitoring Well Data:

Well No.: MW-4-02
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 11.91



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
0950	100	1		17.38	1.60	4.64	1.58	7.04	78		
0955	"	1		17.48	1.60	3.37	1.50	7.03	79		
1000	"	13.17		17.85	1.61	2.39	1.54	7.03	78		
	Collect	GW-12636-091311-JY-009									

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= Vp/Vs.

(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

010

Project Data:

Project Name: Peregrine

Ref. No.: 12636

Date: 9-13-11

Personnel: S. York

Monitoring Well Data:

Well No.: PFW-1

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

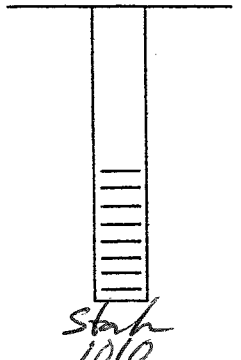
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 79.02



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1040	200	79.04		16.05	1.140	85.6	2.23	7.46	-119		
1055	"			13.02	1.132	40.5	1.99	7.49	-120		
1110	"			12.90	1.130	24.5	1.73	7.48	-122		
1115	"			12.90	1.134	20.7	1.58	7.49	-123		
1120	"			12.90	1.135	15.2	1.50	7.49	-123		
1125	"			12.85	1.138	14.1	1.45	7.48	-124		
1130	"	↓		12.79	1.127	14.1	1.42	7.48	-124		
	Collect	GW-12636-09/3/11-SY-010									

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= Vp/Vs.

(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

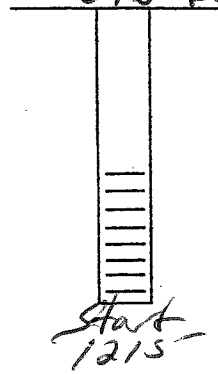
011
013 Dup.

Project Data:

Project Name: Peregrine
Ref. No.: 12636
Date: 9-13-11
Personnel: J. York

Monitoring Well Data:

Well No.: MW 15-10
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 78.13



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3,4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3,4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1320	150	↓		17.35	0.647	182	1.01	7.79	-189		
1350	"			15.41	0.515	56.6	0.84	7.90	-197		
1405	"			16.99	0.540	29.3	0.88	7.91	-198		
1410	"			15.99	0.551	17.9	0.89	7.87	-197		
1415	"			15.30	0.564	14.1	0.87	7.86	-197		
1420	"			15.15	0.574	11.7	0.84	7.82	-197		
1425	"	↓		15.67	0.582	11.1	0.79	7.82	-198		
1430	"	83.62		16.18	0.589	10.9	0.80	7.80	-199		
	Collect	GW-12636-091311-JY-011									

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= Vp/Vs.

(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: Perlgrine

Ref. No.: 12636

Date: 9/13/11

Personnel: J York

Monitoring Well Data:

Well No.: PFW-11

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

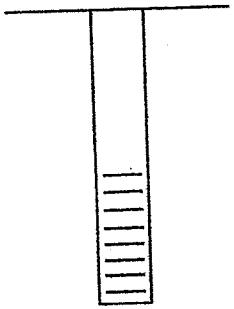
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 2.18



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1400	100	2.18									
				21.22	3.06	12.1	0.54	7.77	22		
1430				21.12	3.05	8.27	0.55	7.79	23		
1435				21.11	3.08	6.32	0.54	7.82	19		
1440				21.09	3.12	6.10	0.49	7.85	17		
1445				20.70	3.15	3.80	0.60	7.88	19		
1450				20.55	3.21	4.69	0.61	7.89	20		
1455				20.69	3.22	2.63	0.63	7.90	19		
1500											

GW-12636-091311-JY-012

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= Vp/Vs.

(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: [illegible]

Ref. No.: 12636

Date: 9/14/11

Personnel: J. Hoyt

Monitoring Well Data:

Well No.: MW16-10

Vapour PID (ppm): _____

Measurement Point: _____

Constructed Well Depth (m/ft): _____

Measured Well Depth (m/ft): _____

Depth of Sediment (m/ft): _____

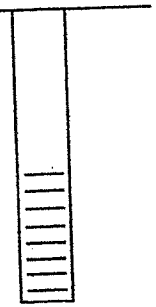
Saturated Screen Length (m/ft): _____

Depth to Pump Intake (m/ft)[1]: _____

Well Diameter, D (cm/in): _____

Well Screen Volume, V_s (L)[2]: _____

Initial Depth to Water (m/ft): 68.21



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3,4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3,4]
Precision Required[5]:				±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0805		68.21									
0835				12.63	0.369	14.1	5.79	8.22	-169		
0840				12.12	0.378	14.7	5.25	8.19	-171		
0845				12.86	0.388	11.5	5.14	8.20	-167		
0850				12.97	0.390	12.5	4.91	8.20	-164		
0855				13.05	0.390	10.9	4.96	8.21	-163		
0900		72.11		13.17	0.395	12.0	5.02	8.23	-162		

GW-12636-0914.1-J4-014

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= Vp/Vs.

(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:

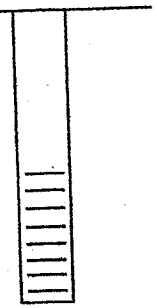
Project Name: Peregrine
Ref. No.: 12636

Date: 9/14/11
Personnel: J. York

Monitoring Well Data:

Well No.: B-9
Vapour PID (ppm): _____
Measurement Point: _____
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____
Depth to Pump Intake (m/ft)[1]: _____
Well Diameter, D (cm/in): _____
Well Screen Volume, V_s (L)[2]: _____
Initial Depth to Water (m/ft): 8.66



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	~~Turbidity NTU~~ D.O. mg/L	~~DO mg/L~~ turb	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0940	100	8.66									
0955				14.08	2.65	1.00	9.25	6.88	-125		
1000				14.24	2.59	0.93	7.48	6.87	-109		
1005				14.35	2.60	0.88	5.72	6.87	-110		
1010				14.30	2.59	0.83	4.28	6.87	-100		
1015		13.19		14.33	2.62	0.85	4.48	6.87	-100		

GW-12636-091411-S4-015

MS/MSD

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= Vp/Vs.
(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: Pumping / Coldwater
Ref. No.: 12636

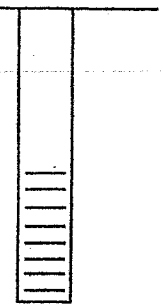
Date: 9/14/11
Personnel: SSH

Monitoring Well Data:

Well No.: MWB-19A

Vapour PID (ppm): _____
Measurement Point: _____
Constructed Well Depth (m/ft): _____
Measured Well Depth (m/ft): _____
Depth of Sediment (m/ft): _____

Saturated Screen Length (m/ft): _____
Depth to Pump Intake (m/ft)[1]: _____
Well Diameter, D (cm/in): _____
Well Screen Volume, V_s (L)[2]: _____
Initial Depth to Water (m/ft): 10.04



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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*		
1040	100	10.04									
1110		10.54		17.56	1.173	1.99	3.79	6.97	126		
1115		10.62		17.55	1.172	1.11	3.69	6.97	125		
1120		10.69		17.37	1.171	1.02	3.66	6.98	127		
1125		10.75		17.27	1.170	0.96	3.65	6.98	127		
Sample 1126											

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= Vp/Vs.

(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.

GW-12636-091411-JY-016
-017 dup

MONITORING WELL RECORD FOR LOW-FLOW PURGING

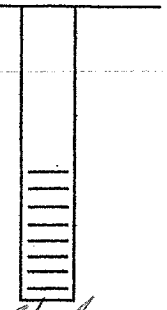
sample # 018

Project Data:

Project Name: Peregrine
Ref. No.: 12636
Date: 9-14-11
Personnel: J. York

Monitoring Well Data:

Well No.: B27D
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 77.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1245		78.67		13.71	0.594	226	1.77	7.61	-149		
1300		78.67		13.68	0.592	173	1.68	7.60	-148		
1315		78.54		13.99	0.596	93.7	1.69	7.61	-147		
1320		78.54		13.94	0.597	81.7	1.68	7.59	-147		
1325		78.54		14.00	0.598	64.2	1.62	7.59	-147		
1330		78.54		13.94	0.598	52.9	1.59	7.58	-148		
1335		78.54		13.89	0.599	45.9	1.61	7.59	-147		
1340		78.54		13.82	0.599	40.0	1.59	7.59	-147		
1341	sample										

Notes: bladder pump

T+ Dis. metals

(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= Vp/Vs.

(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

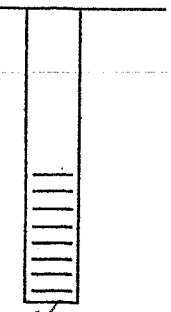
019

Project Data:

Project Name: Peregrine
Ref. No.: 12636
Date: 9-14-11
Personnel: J. York

Monitoring Well Data:

Well No.: B2D
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 55.41



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1450	100			13.07	0.594	24.3	0.73	7.62	-166		
1455	"			13.08	0.591	21.3	0.72	7.63	-167		
1500	"	↓		13.10	0.590	21.7	0.70	7.63	-168		
1505	"	55.47		13.20	0.592	23.1	0.69	7.62	-168		
	Collect GW-	12636-	091411-JY-019								

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= Vp/Vs.

(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: Peregrine / Coldwater Rd Date: 9/14/11

Ref. No.: 12636 Personnel: SSH

Monitoring Well Data:

Well No.: MW8-18A

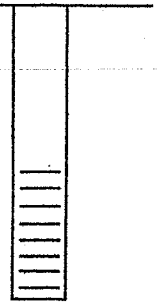
Vapour PID (ppm): _____ Saturated Screen Length (m/ft): _____

Measurement Point: _____ Depth to Pump Intake (m/ft)[1]: _____

Constructed Well Depth (m/ft): _____ Well Diameter, D (cm/in): _____

Measured Well Depth (m/ft): _____ Well Screen Volume, V_s (L)[2]: _____

Depth of Sediment (m/ft): _____ Initial Depth to Water (m/ft): 24.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]*	*±10 %*	*±10 %*	*±0.1 Units*	*±10 mV*		
1425	100	24.89									
1455		26.93		13.19	1.125	5.57	0.81	7.19	136		
1500		27.29		13.33	1.124	4.27	0.77	7.18	133		
1505		27.64		13.44	1.124	3.77	0.75	7.18	131		
1507	sample										

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= Vp/Vs.

(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.

GW-12636-091411-J4-020

T. + Dis. metals

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

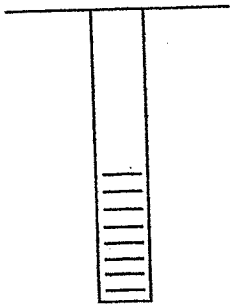
Project Name: Pregnant
Ref. No.: 12636

Date: 9/15/11
Personnel: SSH

Monitoring Well Data:

Well No.: MW-B7
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 23.71



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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[5]	±10 %	±10 %	±0.1 Units	±10 mV		
0830	100	23.71									
0900		26.43		13.11	1.023	2.32	2.69	6.87	121		
0905		26.76		13.00	1.029	2.18	2.66	6.94	119		
0910		27.03		12.93	0.977	1.68	3.90	7.03	118		
0915		27.49		12.86	0.951	1.53	4.49	7.08	118		
0920		27.97		12.90	0.953	1.33	4.48	7.09	118		
0925		28.62		12.92	0.949	1.29	4.46	7.10	118		
0926	Sample										

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= Vp/Vs.
(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.

-022

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

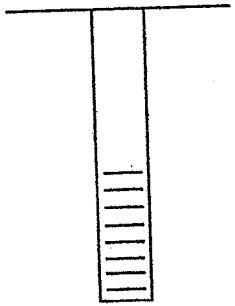
Project Name: Peregrine
Ref. No.: 12636

Date: 9/15/11
Personnel: SSH

Monitoring Well Data:

Well No.: MW-19AR
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 39.02



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1000	103	39.02									
1030		42.84		10.77	1.043	38.9	1.55	7.31	118		
1035		43.44		10.74	1.049	73.4	1.37	7.29	117		
1040		44.10		10.79	1.047	144	1.35	7.29	116		
1045		44.31		10.80	1.047	162	1.30	7.30	116		
1045	sample										

Notes: turb. going up as well drops DTW

(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= Vp/Vs.
(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.

-023

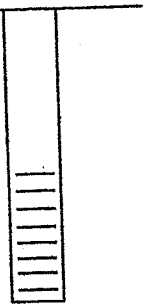
MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:
Project Name: Purging
Ref. No.: 12636

Date: 9/15/11
Personnel: SSH, JG

Monitoring Well Data:
Well No.: 21D
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 82.21



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/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		
1125		82.21									
		~~84.35~~		~~11.70~~							
1205		84.36		11.78	0.761	2.22	991	7.31	-57		
1215		84.31		11.64	0.767	1.61	999	7.32	-57		
1225		84.26		11.23	0.769	2.51	460	7.32	-59		
1235		84.24		12.10	0.769	1.79	314	7.32	-64		
1240		84.21		12.05	0.769	0.90	252	7.32	-72		
1245		84.17		12.05	0.771	0.66	230	7.33	-75		
1250		84.01		12.16	0.770	0.63	208	7.33	-79		
1255		83.99		12.39	0.771	0.64	185	7.33	-80		
1300		84.00		12.38	0.772	0.65	187	7.33	-78		
1301	sample										

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= Vp/Vs.
(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.

-024

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Pickering Waterfront Rd Date: 9/15/11

Ref. No.: 12636 Personnel: SSH, JH

Monitoring Well Data:

Well No.: 20D

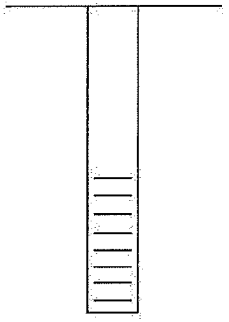
Vapour PID (ppm): _____ Saturated Screen Length (m/ft): _____

Measurement Point: _____ Depth to Pump Intake (m/ft)[1]: _____

Constructed Well Depth (m/ft): _____ Well Diameter, D (cm/in): _____

Measured Well Depth (m/ft): _____ Well Screen Volume, V_s (L)[2]: _____

Depth of Sediment (m/ft): _____ Initial Depth to Water (m/ft): 71.63



Time	*Pumping Rate (mL/min)*	*Depth to Water (m/ft)*	*Drawdown from Initial Water Level[3] (m/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*		
1330		71.63									
1415		72.02		12.91	1.022	236	0.45	7.22	-95		
1430		72.02		13.10	1.017	96.7	0.39	7.22	-93		
1440		72.02		13.04	1.016	76.5	0.37	7.23	-94		
1445		72.02		13.00	1.015	68.5	0.36	7.22	-93		
1450		72.02		12.78	1.014	63.2	0.35	7.22	-93		
1455		72.02		12.71	1.014	61.9	0.38	7.22	-93		
1456	Sample										

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

- 025

ATTACHMENT C

DATA VALIDATION REPORT

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.: 12636

FROM: Rawa Fleisher/tl/160/Det

DATE: November 14, 2011

RE: Data Quality Assessment and Full Validation
Groundwater Monitoring - September 2011
RACER - Peregrine Site Genesee County, Michigan

The following details a quality assessment and validation of the analytical data resulting from the September 2011 collection of 20 groundwater, and five (5) quality control samples from the RACER Peregrine Site in Genesee County, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Test America Laboratories, Inc, in North Canton, OH (TA-NC) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with following guidance documents:

i. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999;

ii. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", EPA-540/R-94/013, February 1994.

These guidelines are collectively referred to as "NFGs" in this Memorandum.

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC) and inorganics below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Gas Chromatography/Mass Spectrometer (GC/MS) - Tuning and Mass Calibration (Instrument Performance Check) - Organic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for volatile organic compounds (VOC) analyses was checked at the beginning of

Gas Chromatography/Mass Spectrometer (GC/MS) - Tuning and Mass Calibration (Instrument Performance Check) - Organic Analyses - (continued)

each 12-hour period using bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the NFGs before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration - Organic Analyses

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i. GC/MS (all compounds) - must meet a minimum mean relative response factor (RRF) of 0.05 ;
ii. GC/MS (all compounds) - the percent relative standard deviation (RSD) values must not exceed 30.0 percent or a minimum coefficient of determination of 0.99 if quadratic equation calibration curves are used; and

Calibration standards were analyzed at the required frequency and the results met the above criteria for linearity and sensitivity.

Continuing Calibration - Organic Analyses

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours for GC/MS analyses and every 10 samples by GC. The following criteria are employed to evaluate the continuing calibration data:

i. GC/MS (all compounds) - must meet a minimum mean RRF of 0.05 ;
ii. GC/MS (all compounds) - the percent difference between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent;
iii. GC/MS (compounds determined by quadratic curve) - the percent drift between the true value and the continuing calibration value must not exceed 25 percent;

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response and sensitivity with the exception of the qualified samples presented in Table 3.

Inductively Coupled Plasma/Mass Spectrometer (ICP/MS) -
Mass Calibration and Resolution Checks - Metal Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each ICP/MS instrument used for metals analyses was checked prior to calibration before initiating an analysis sequence through the analysis of a tuning solution. The results of the tuning solution analysis were reviewed against the following criteria:

i. Analyze tuning solution a minimum of four times with a percent RSD of less than or equal to five for the analytes contained in the tuning solution; and

ii. The mass resolution must be within 0.1 amu of the true value over the analytical range

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration - Inorganic Analyses

The initial calibration includes a blank and at least one standard for inductively coupled plasma (ICP) and ICP/MS to establish the analytical curve. Mercury analysis by cold vapor atomic absorption spectroscopy (CVAA) and cyanide analysis by spectrophotometry requires the analysis of a calibration blank and a minimum of five standards to establish the calibration curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP and ICP/MS, 80 to 120 percent for mercury by CVAA and 85 to 115 percent for cyanide by spectrophotometry.

A review of the laboratory data showed that the inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration - Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every 10 samples). The CCVs must meet the percent recovery control limits specified above for the ICVs. Criteria for inorganic analyses are the same criteria as used for assessing the initial calibration data.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method Blank Samples - (continued)

The samples presented in Table 4 should be qualified due to laboratory contamination. The laboratory flagged the analytes with a "B" which may be disregarded. The remaining method blank samples did not contain target compounds with concentrations that impacted the investigative samples.

Laboratory Blank Samples - Inorganic Analyses

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

Several ICB and CCBs were reported with detectable concentrations of target analytes. The samples presented in Table 5 should be qualified due to ICB and/or CCB contamination above the laboratory MDLs. The remaining ICB and CCBs did not contain elements with concentrations that impacted the investigative samples.

Surrogate Compounds - Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

The surrogate recovery acceptance criteria were met for all samples.

Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods or the laboratory and the NFG. The samples selected for MS/MSD analysis are identified in Table 1.

In some sample batches, non-Site-specific samples were utilized as MS/MSDs. Qualification of samples associated with these MS/MSDs was not performed. The MS/MSD percent recoveries and associated RPD acceptance criteria were met or did not warrant qualification.

Laboratory Control Sample Analyses

The laboratory control sample (LCS) analyses serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits.

The LCS percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved.

Inductively Coupled Plasma (ICP) Interference Check Sample Analysis - Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP interference check samples (ICS) are analyzed. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

The ICS analysis results were evaluated for all samples and were within the control limits.

Internal Standard Summaries - Organic Analyses

To correct for variability in the GC/MS response and sensitivity, internal standard (IS) compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC analyses were monitored using IS peak area and retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i. IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and
ii. The RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC internal standard data showed that the IS area counts and retention time data were within the acceptance criteria.

Internal Standard Summaries - Inorganic Analyses

To correct for variability in the ICP/MS response and sensitivity, internal standards (IS) are added to all samples. All results are calculated as a ratio of the IS response to the response of the sample. Overall instrument stability and performance for metals analyses was monitored using the IS intensity data which are evaluated against the following criteria:

i. The IS intensities in samples must recover between 30 and 120 percent of the true value; and
ii. The IS intensities in instrument calibration checks (CCVs and CCBs) must recover between 60 and 125 percent of the true value.

A review of the ICP/MS metals IS data showed that the IS intensities were within the acceptance criteria.

Serial Dilution - Inorganic Analyses

The percent difference (D) between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 percent D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The percent D acceptance criteria were met with the exception of the elements presented in Table 6.

Contract Required Detection Limit (CRDL) Analyses - Inorganic Analyses

The instrument calibration near the Contract Required Detection Limit (CRDL) must be verified for each analyte reported. An ICP standard solution at the CRDL (CRI) is evaluated against the control limits provided.

The CRI analysis results were evaluated for all samples and were within the control limits.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of two (2) field duplicate sample sets and three (3) trip blank samples.

Field Duplicate Samples

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water samples.

The data indicate that an adequate level of precision was achieved for the sampling event.

Trip Blank Samples

To monitor potential cross-contamination of VOC during sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

No target analytes were reported as detected in the trip blank samples that impacted the investigative samples.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

						Analysis/Parameters			
Sample Identification	*Location*	*Matrix*	*QC Samples*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*TCL VOC*	*Site TAL Metals (Total)*	*Site TAL Metals (Dissolved)*	*Cyanide (Total/Amenable)*
CRA SDG No.: 06	**TA-NC Lot No.: 240-3770**		**TA-SDG No: 240-3770**						
TB-12636-091211-JY-001	---	water	Trip Blank	9/12/2011	---	X			
GW-12636-091211-JY-002	PFW-4	water	MS/MSD-P	9/12/2011	12:15:00 PM	X	X	X	X
GW-12636-091211-JY-003	MW-2	water		9/12/2011	2:30:00 PM	X	X	X	X
GW-12636-091211-JY-004	PFW-2	water	MS/MSD-P	9/12/2011	1:56:00 PM	X	X		X
GW-12636-091211-JY-005	MW-1	water	MS/MSD-P	9/12/2011	3:02:00 PM	X	X		X
GW-12636-091211-JY-006	PFW-9	water		9/12/2011	3:30:00 PM	X	X		X
CRA SDG No.: 07	**TA-NC Lot No.: 240-3798**		**TA-SDG No: 240-3770**						
TB-12636-091311-JY-007	---	water	Trip Blank	9/13/2011	---	X			
GW-12636-091311-JY-008	PFW-10	water	MS/MSD-P	9/13/2011	8:55:00 AM	X	X		X
GW-12636-091311-JY-009	MW-4-02	water	MS/MSD-P	9/13/2011	10:00:00 AM	X	X		X
GW-12636-091311-JY-010	PFW-1	water		9/13/2011	11:30:00 AM	X	X	X	X
GW-12636-091311-JY-011	MW-15-10	water		9/13/2011	2:30:00 PM	X	X	X	X
GW-12636-091311-JY-012	PFW-11	water		9/13/2011	3:00:00 PM	X	X		X
GW-12636-091311-JY-013	MW-15-10	water	DUP (-011)	9/13/2011	2:40:00 PM	X	X	X	X
CRA SDG No.: 08	**TA-NC Lot No.: 240-3861**		**TA-SDG No: 240-3770**						
GW-12636-091411-JY-014	MW-16-10	water	MS/MSD-P	9/14/2011	9:00:00 AM	X	X	X	X
GW-12636-091411-JY-015	B-9	water	MS/MSD-P	9/14/2011	10:15:00 AM	X	X		X
GW-12636-091411-JY-016	B-19A	water		9/14/2011	11:26:00 AM	X	X		X
GW-12636-091411-JY-017	B-19A	water	DUP (-016)	9/14/2011	11:30:00 AM	X	X		X
GW-12636-091411-JY-018	B-27D	water	MS/MSD-P	9/14/2011	1:41:00 PM	X	X	X	X
GW-12636-091411-JY-019	B-2D	water		9/14/2011	3:05:00 PM	X	X	X	X

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Sample Identification	*Location*	*Matrix*	*QC Samples*	*Collection Date (mm/dd/yyyy)*	*Collection Time (hr:min)*	*Analysis/Parameters*			
						TCL VOC	*Site TAL Metals (Total)*	*Site TAL Metals (Dissolved)*	*Cyanide (Total/Amenable)*
CRA SDG No.: 08 (cont)	**TA-NC Lot No.: 240-3861**		**TA-SDG No: 240-3770**						
GW-12636-091411-JY-020	MW-18A	water		9/14/2011	3:07:00 PM	X	X	X	X
TB-12636-091411-JY-021	---	water	Trip Blank	9/14/2011	---	X			
CRA SDG No.: 09	**TA-NC Lot No.: 240-3912**		**TA-SDG No: 240-3770**						
GW-12636-0915-SSH-022	B-7	water		9/15/2011	9:26:00 AM	X	X	X	X
GW-12636-0915-SSH-023	B-19AR	water		9/15/2011	10:47:00 AM	X	X	X	X
GW-12636-0915-SSH-024	B-21D	water		9/15/2011	1:01:00 PM	X	X	X	X
GW-12636-0915-SSH-025	B-20D	water		9/15/2011	2:56:00 PM	X	X	X	X

Notes:

DUP - Field Duplicate Sample of sample in parenthesis
MS/MSD - Matrix Spike/Matrix Spike Duplicate
MS/MSD-P - Matrix Spike/Matrix Spike Duplicate (Partial parameters)
QC - Quality Control
TAL - Target Analyte List
TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Method* [1]	*Matrix*	*Holding Time*	*Preservation*
TCL VOC	SW-846 8260	Water	- 14 days from sample collection to completion of analysis.	pH < 2 and Iced, 4 ± 2° C
Site TAL Metals (Total/Dissolved)		Water	- 180 days from sample collection to completion of analysis	pH < 2 and Iced, 4 ± 2° C
Aluminum	SW-846 6020			
Antimony	SW-846 6020			
Arsenic	SW-846 6010B			
Barium	SW-846 6010B			
Beryllium	SW-846 6010B			
Cadmium	SW-846 6010B			
Chromium	SW-846 6010B			
Cobalt	SW-846 6010B			
Copper	SW-846 6020			
Iron	SW-846 6010B			
Lead	SW-846 6010B			
Manganese	SW-846 6010B			
Nickel	SW-846 6010B			
Selenium	SW-846 6010B			
Silver	SW-846 6020			
Thallium	SW-846 6020			
Vanadium	SW-846 6010B			
Zinc	SW-846 6010B			
Mercury	SW-846 7470A	Water	- 28 days from sample collection to completion of analysis	pH < 2 and Iced, 4 ± 2° C
General Chemistry				
Cyanide (Total/Amenable)	SW-846 9012	Water	- 14 days from sample collection to analysis	Iced, 4 ± 2° C

Notes

[1] Method References:
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, and Promulgated updates, November 1986

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Calibration Date*	*RRF*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
TCL VOC	Bromomethane	9/19/2011	---	-40.2	GW-12636-091211-JY-002	1.0 UJ	µg/L
					GW-12636-091211-JY-003	1.0 UJ	µg/L
					GW-12636-091211-JY-004	1.0 UJ	µg/L
					GW-12636-091211-JY-005	1.0 UJ	µg/L
					GW-12636-091211-JY-006	1.0 UJ	µg/L
					TB-12636-091211-JY-001	1.0 UJ	µg/L
TCL VOC	Dichlorodifluoromethane	9/20/2011	---	31.7	GW-12636-091311-JY-008	1.0 UJ	µg/L
					GW-12636-091311-JY-009	1.0 UJ	µg/L
					GW-12636-091311-JY-010	1.0 UJ	µg/L
					GW-12636-091311-JY-011	1.0 UJ	µg/L
					GW-12636-091311-JY-012	1.0 UJ	µg/L
					GW-12636-091311-JY-013	1.0 UJ	µg/L
					TB-12636-091311-JY-007	1.0 UJ	µg/L
TCL VOC	Bromomethane (Methyl bromide)	9/22/2011	---	-37.1	GW-12636-091411-JY-014	1.0 UJ	µg/L
	Chloroethane			-48.9	GW-12636-091411-JY-015	1.0 UJ	µg/L
	Dichlorodifluoromethane (CFC-12)			-27.9	GW-12636-091411-JY-016	1.0 UJ	µg/L
	1,1,2,2-Tetrachloroethane			-34.0	GW-12636-091411-JY-017	1.0 UJ	µg/L
	1,2-Dibromo-3-chloropropane (DBCP)			-34.2	GW-12636-091411-JY-018	1.0 UJ	µg/L
					GW-12636-091411-JY-019	1.0 UJ	µg/L
					GW-12636-091411-JY-020	1.0 UJ	µg/L
					TB-12636-091411-JY-021	1.0 UJ	µg/L

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Calibration Date*	*RRF*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
TCL VOC	1,1,2,2-Tetrachloroethane	9/27/2011	---	-36.4	GW-12636-0915-SSH-022	1.0 UJ	µg/L
					GW-12636-0915-SSH-023	1.0 UJ	µg/L
					GW-12636-0915-SSH-024	1.0 UJ	µg/L
					GW-12636-0915-SSH-025	1.0 UJ	µg/L

Notes:

UJ - Non-detect with an Estimated Report Limit

%D - Percent Difference
RRF - Relative Response Factor
TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Thallium	09/16/11	0.59	GW-12636-091211-JY-002	1.0 U	µg/L
				GW-12636-091211-JY-003	1.0 U	µg/L
				GW-12636-091211-JY-004	2.3 U	µg/L
				GW-12636-091211-JY-005	1.0 U	µg/L
				GW-12636-091211-JY-006	1.0 U	µg/L
Site TAL Metals	Thallium (dissolved)	09/16/11	0.59	GW-12636-091211-JY-002	1.0 U	µg/L
				GW-12636-091211-JY-003	1.0 U	µg/L
Site TAL Metals	Zinc	09/22/11	27.3	GW-12636-091411-JY-014	20 U	µg/L
Site TAL Metals	Zinc	09/22/11	24..1	GW-12636-091311-JY-008	20 U	µg/L
	Copper		0.727		2.0 U	µg/L
Site TAL Metals	Copper	09/23/11	0.994	GW-12636-091311-JY-009	2.0 U	µg/L
				GW-12636-091311-JY-010	2.0 U	µg/L
				GW-12636-091311-JY-011	2.0 U	µg/L
				GW-12636-091311-JY-012	2.0 U	µg/L
				GW-12636-091411-JY-014	2.0 U	µg/L
				GW-12636-091411-JY-015	2.0 U	µg/L
				GW-12636-091411-JY-016	2.0 U	µg/L
				GW-12636-091411-JY-017	2.0 U	µg/L
				GW-12636-091411-JY-018	2.0 U	µg/L
Site TAL Metals	Copper (dissolved)	09/23/11	0.994	GW-12636-091311-JY-010	2.0 U	µg/L
				GW-12636-091411-JY-014	2.0 U	µg/L

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Zinc	09/24/11	14.9	GW-12636-091311-JY-009	20 U	µg/L
				GW-12636-091311-JY-012	20 U	µg/L
				GW-12636-091411-JY-015	20 U	µg/L
				GW-12636-091411-JY-016	20 U	µg/L
				GW-12636-091411-JY-017	20 U	µg/L
				GW-12636-091411-JY-018	20 U	µg/L
Site TAL Metals	Zinc (dissolved)	09/24/11	14.9	GW-12636-091411-JY-014	20 U	µg/L
Site TAL Metals	Copper	09/23/11	0.929	GW-12636-091411-JY-019	2.1 U	µg/L
				GW-12636-091411-JY-020	2.0 U	µg/L
				GW-12636-0915-SSH-022	2.5 U	µg/L
				GW-12636-0915-SSH-023	4.5 U	µg/L
				GW-12636-0915-SSH-024	2.0 U	µg/L
				GW-12636-0915-SSH-025	3.7 U	µg/L
Site TAL Metals	Copper (dissolved)	09/23/11	0.929	GW-12636-091411-JY-018	2.0 U	µg/L
				GW-12636-091411-JY-020	2.0 U	µg/L
				GW-12636-0915-SSH-022	2.7 U	µg/L
				GW-12636-0915-SSH-024	2.0 U	µg/L
				GW-12636-0915-SSH-025	2.0 U	µg/L
Site TAL Metals	Thallium	09/23/11	0.291	GW-12636-091411-JY-020	1.0 U	µg/L
				GW-12636-0915-SSH-022	1.0 U	µg/L
				GW-12636-0915-SSH-023	1.0 U	µg/L
				GW-12636-0915-SSH-025	1.0 U	µg/L

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Thallium (dissolved)	09/23/11	0.291	GW-12636-091411-JY-019	1.0 U	µg/L
				GW-12636-091411-JY-020	1.0 U	µg/L
				GW-12636-0915-SSH-022	1.0 U	µg/L
				GW-12636-0915-SSH-024	1.0 U	µg/L
Site TAL Metals	Zinc	09/23/11	33.1	GW-12636-091411-JY-019	20 U	µg/L
				GW-12636-091411-JY-020	20 U	µg/L
				GW-12636-0915-SSH-023	35 U	µg/L
				GW-12636-0915-SSH-024	39 U	µg/L
				GW-12636-0915-SSH-025	20 U	µg/L
Site TAL Metals	Zinc (dissolved)	09/23/11	33.1	GW-12636-091411-JY-020	20 U	µg/L
				GW-12636-0915-SSH-024	20 U	µg/L
				GW-12636-0915-SSH-025	20 U	µg/L
TCL VOC	Acetone	09/20/11		TB-12636-091311-JY-007	10 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TAL - Target Analyte List
TCL - Target Compound List
VOC - Volatile Organic Compounds

TABLE 5

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO LABORATORY BLANK CONTAMINATION
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Antimony	09/16/11	0.175	GW-12636-091211-JY-004	2.0 U	µg/L
Site TAL Metals	Antimony	09/16/11	0.19	GW-12636-091211-JY-002	2.0 U	µg/L
				GW-12636-091211-JY-005	2.0 U	µg/L
Site TAL Metals	Antimony (dissolved)	09/16/11	0.19	GW-12636-091211-JY-002	2.0 U	µg/L
Site TAL Metals	Thallium	09/23/11	0.921	GW-12636-091311-JY-008	1.5 U	µg/L
	Antimony		0.233		2.0 U	µg/L
Site TAL Metals	Antimony	09/23/11	0.308	GW-12636-091311-JY-009	2.0 U	µg/L
Site TAL Metals	Antimony	09/23/11	0.452	GW-12636-091311-JY-012	2.0 U	µg/L
				GW-12636-091411-JY-014	2.0 U	µg/L
Site TAL Metals	Antimony (dissolved)	09/23/11	0.452	GW-12636-091311-JY-013	2.0 U	µg/L
				GW-12636-091411-JY-014	2.0 U	µg/L
Site TAL Metals	Silver	09/23/11	0.197	GW-12636-091311-JY-010	0.20 U	µg/L
				GW-12636-091311-JY-011	0.20 U	µg/L
				GW-12636-091311-JY-013	0.20 U	µg/L
				GW-12636-091411-JY-014	0.36 U	µg/L
				GW-12636-091411-JY-018	0.20 U	µg/L
Site TAL Metals	Thallium	09/23/11	1.58	GW-12636-091311-JY-009	1.5 U	µg/L
				GW-12636-091311-JY-010	1.0 U	µg/L
				GW-12636-091311-JY-011	1.0 U	µg/L
Site TAL Metals	Thallium	09/23/11	1.49	GW-12636-091411-JY-014	1.0 U	µg/L
				GW-12636-091411-JY-015	1.0 U	µg/L
				GW-12636-091411-JY-016	1.0 U	µg/L
Site TAL Metals	Thallium (dissolved)	09/23/11	1.58	GW-12636-091311-JY-010	1.0 U	µg/L

TABLE 5

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO LABORATORY BLANK CONTAMINATION
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Analysis Date*	*Blank Result*	*Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Thallium (dissolved)	09/23/11	1.49	GW-12636-091311-JY-013	1.0 U	µg/L
				GW-12636-091411-JY-014	1.0 U	µg/L
Site TAL Metals	Vanadium	09/24/11	0.696	GW-12636-091411-JY-018	4.0 U	µg/L
Site TAL Metals	Antimony	09/23/11	0.167	GW-12636-091411-JY-019	2.0 U	µg/L
Site TAL Metals	Antimony	09/23/11	0.188	GW-12636-0915-SSH-022	2.0 U	µg/L
				GW-12636-0915-SSH-023	2.0 U	µg/L
Site TAL Metals	Antimony (dissolved)	09/23/11	0.167	GW-12636-091411-JY-018	2.0 U	µg/L
Site TAL Metals	Thallium	09/23/11	0.84	GW-12636-091411-JY-019	2.1 U	µg/L
Site TAL Metals	Thallium (dissolved)	09/23/11	0.84	GW-12636-091411-JY-018	1.7 U	µg/L
Site TAL Metals	Vanadium	09/24/11	0.696	GW-12636-0915-SSH-025	4.0 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TAL - Target Analyte List

TABLE 6

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO VIOLATION OF ICP SERIAL DILUTION CONTROL LIMITS
GROUNDWATER MONITORING - SEPTEMBER 2011
RACER PEREGRINE SITE
GENESEE COUNTY, MICHIGAN

Parameter	*Analyte*	*Serial Dilution Sample ID*	*%D*	*Associated Sample ID*	*Qualified Result*	*Units*
Site TAL Metals	Manganese	GW-12636-091311-JY-009	14	GW-12636-091311-JY-009	23 J	µg/L
		GW-12636-091411-JY-018	11	GW-12636-091311-JY-010	26 J	µg/L
				GW-12636-091311-JY-011	110 J	µg/L
				GW-12636-091311-JY-012	55 J	µg/L
				GW-12636-091311-JY-013	110 J	µg/L
				GW-12636-091411-JY-015	6800 J	µg/L
				GW-12636-091411-JY-016	5.7 J	µg/L
				GW-12636-091411-JY-017	3.2 J	µg/L
				GW-12636-091411-JY-018	37 J	µg/L

Notes:

J - Estimated Concentration

%D - Percent Difference
TAL - Target Analyte List

ATTACHMENT D

HISTORICAL RESULTS FOR THE 2010-2011 MONITORING WELL NETWORK

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-2D*	*B-7*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*B-9~6/21/1995~N~LB*
Sample Date:								*5/12/2011*	*9/14/2011*	*9/15/2011*	*6/21/1995*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	mg/L	30	0.32	96	0.077	15	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.2	660	0.089	0.001 U	0.001 U	0.001 U	-
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.0085	12	0.078	0.001 U	0.001 UJ	0.001 UJ	-
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.005	17	0.33	0.001 U	0.001 U	0.001 U	-
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.88	1000	0.74	0.001 U	0.001 U	0.001 U	-
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.007	0.2	0.13	0.001 U	0.001 U	0.001 U	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	84	0.12	180	0.042	83	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	0.005 U	0.001 U	0.001 U	-
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.063	56	0.017	0.001 U	0.001 U	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.0002	1.2	-	0.001 U	0.001 UJ	0.001 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.00005	2.4	0.0057	0.001 U	0.001 U	0.001 U	-
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.6	160	0.013	0.001 U	0.001 U	0.001 U	-
1,2-Dichloroethane	mg/L	19	0.005	59	0.005	9.6	0.36	0.001 U	0.001 U	0.001 U	-
1,2-Dichloropropane	mg/L	16	0.005	36	0.005	16	0.23	0.001 U	0.001 U	0.001 U	-
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.072	61	0.045	0.001 U	0.001 U	0.001 U	-
1,3-Dichlorobenzene	mg/L	2	0.019	41	0.0066	18	0.028	0.001 U	0.001 U	0.001 U	-
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.075	16	0.017	0.001 U	0.001 U	0.001 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	13	240000	2.2	0.025 U	0.01 U	0.01 U	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	5200	2.9	8700	1	4200	-	0.05 U	0.01 U	0.01 U	-
2-Methylnaphthalene	mg/L	25	0.75	25	0.26	25	0.019	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	4.4	0.23	-	0.08	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	13000	5.2	20000	1.8	20000	-	0.05 U	0.01 U	0.01 U	-
Acetone	mg/L	31000	2.1	1000000	0.73	1000000	1.7	0.025 U	0.01 U	0.01 U	-
Acrylonitrile	mg/L	14	0.011	190	0.0026	34	0.002	-	-	-	-
Benzene	mg/L	11	0.005	35	0.005	5.6	0.2	0.001 U	0.001 U	0.001 U	-
Bromobenzene	mg/L	12	0.05	390	0.018	180	-	-	-	-	-
Bromodichloromethane	mg/L	14	0.08	37	0.08	4.8	-	0.001 U	0.001 U	0.001 U	-
Bromoform	mg/L	140	0.08	3100	0.08	470	-	0.001 U	0.001 U	0.001 U	-
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.01	4	0.035	0.001 U	0.001 UJ	0.001 U	-
Carbon disulfide	mg/L	1200	2.3	550	0.8	250	-	0.005 U	0.005 U	0.005 U	-
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.005	0.37	0.045	0.001 U	0.001 U	0.001 U	-
Chlorobenzene	mg/L	86	0.1	470	0.1	210	0.025	0.001 U	0.001 U	0.001 U	-
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/L	440	1.7	5700	0.43	5700	1.1	0.001 U	0.001 UJ	0.001 U	-
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.08	28	0.35	0.001 U	0.001 U	0.001 U	-
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.26	8.6	-	0.001 U	0.001 U	0.001 U	-
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.07	93	0.62	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	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	18	0.08	110	0.08	14	-	0.001 U	0.001 U	0.001 U	-
Dibromomethane	mg/L	530	0.23	-	0.08	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								***B-2D***	***B-2D***	***B-7***	***B-9***
Sample ID:								***GW-12636-051211-SSH-107***	***GW-12636-091411-JY-019***	***GW-12636-0915-SSH-022***	***B-9~6/21/1995~N~LB***
Sample Date:								***5/12/2011***	***9/14/2011***	***9/15/2011***	***6/21/1995***
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	1.7	220	-	0.001 U	0.001 UJ	0.001 U	-
Diisopropyl ether	mg/L	8	0.086	8	0.03	8	-	-	-	-	-
Ethyl ether	mg/L	35000	0.01	61000	0.01	61000	-	-	-	-	-
Ethylbenzene	mg/L	170	0.074	170	0.074	110	0.018	0.001 U	0.001 U	0.001 U	-
Hexachloroethane	mg/L	1.9	0.021	50	0.0073	27	0.0067	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	56	2.3	56	0.8	56	0.028	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	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	0.04	47000	7.1	0.005 U	0.005 U	0.005 U	-
Methylene chloride	mg/L	220	0.005	1400	0.005	220	1.5	0.005 U	0.005 U	0.005 U	-
Naphthalene	mg/L	31	1.5	31	0.52	31	0.011	-	-	-	-
N-Butylbenzene	mg/L	5.9	0.23	-	0.08	-	-	-	-	-	-
N-Propylbenzene	mg/L	15	0.23	-	0.08	-	-	-	-	-	-
o-Xylene	mg/L	190	0.28	190	0.28	190	0.041	-	-	-	-
Styrene	mg/L	9.7	0.1	310	0.1	170	0.08	0.001 U	0.001 U	0.001 U	-
tert-Amyl methyl ether	mg/L	2600	0.19	570	0.19	260	-	-	-	-	-
tert-Butyl alcohol	mg/L	79000	11	1000000	3.9	1000000	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	0.049	5600	0.049	2900	-	-	-	-	-
tert-Butylbenzene	mg/L	8.9	0.23	-	0.08	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.005	25	0.06	0.001 U	0.001 U	0.001 U	-
Tetrahydrofuran	mg/L	1600	0.27	16000	0.095	6900	11	-	-	-	-
Toluene	mg/L	530	0.79	530	0.79	530	0.27	0.001 U	0.001 U	0.001 U	-
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.1	85	1.5	0.001 U	0.001 U	0.001 U	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	0.001 U	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	22	0.005	97	0.005	15	0.2	0.001 U	0.001 U	0.001 U	-
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	2.6	1100	-	0.001 U	0.001 U	0.001 U	-
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	170	170	0.032	0.001 U	0.001 U	0.001 U	-
Vinyl chloride	mg/L	1	0.002	13	0.002	1.1	0.013	0.001 U	0.001 U	0.001 U	-
Xylenes (total)	mg/L	190	0.28	190	0.28	190	0.041	0.002 U	0.002 U	0.002 U	-
Semi-volatile Organic Compounds											
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.07	300	0.099	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	170	2.1	-	0.73	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	10	0.47	-	0.12	-	0.005	-	-	-	-
2,4-Dichlorophenol	mg/L	48	0.21	-	0.073	-	0.011	-	-	-	-
2,4-Dimethylphenol	mg/L	520	1	-	0.37	-	0.38	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	8.6	0.032	-	0.0077	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	6.7	5.2	-	1.8	-	-	-	-	-	-
2-Chlorophenol	mg/L	94	0.13	-	0.045	-	0.018	-	-	-	-
2-Methylnaphthalene	mg/L	25	0.75	25	0.26	25	0.019	-	-	-	-
2-Methylphenol	mg/L	810	1	-	0.37	-	0.03	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-2D*	*B-7*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*B-9~6/21/1995~N~LB*
Sample Date:								*5/12/2011*	*9/14/2011*	*9/15/2011*	*6/21/1995*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	79	0.058	-	0.02	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	0.18	0.0043	-	0.0011	-	0.0003	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	9.5	0.02	-	0.02	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	79	0.42	-	0.15	-	0.0074	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	810	1	-	0.37	-	0.03	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	1.3	4.2	0.038	-	-	-	-
Acenaphthylene	mg/L	3.9	0.15	3.9	0.052	3.9	-	-	-	-	-
Anthracene	mg/L	0.043	0.043	0.043	0.043	0.043	-	-	-	-	-
Benzo(a)anthracene	mg/L	0.0094	0.0085	-	0.0021	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.001	0.005	-	0.005	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	0.0015	0.0015	-	0.0015	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	0.001	0.001	-	0.001	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	0.001	0.001	-	0.001	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	5.7	0.0083	210	0.002	38	0.001	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.32	0.006	-	0.006	-	0.025	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	2.7	2.7	-	1.2	-	0.067	-	-	-	-
Carbazole	mg/L	7.4	0.35	-	0.085	-	0.01	-	-	-	-
Chrysene	mg/L	0.0016	0.0016	-	0.0016	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	0.002	0.002	-	0.002	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	10	-	10	0.004	-	-	-	-
Diethyl phthalate	mg/L	1100	16	-	5.5	-	0.11	-	-	-	-
Dimethyl phthalate	mg/L	4200	210	-	73	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	0.88	-	0.0097	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	0.4	0.38	-	0.13	-	-	-	-	-	-
Fluoranthene	mg/L	0.21	0.21	0.21	0.21	0.21	0.0016	-	-	-	-
Fluorene	mg/L	2	2	2	0.88	2	0.012	-	-	-	-
Hexachlorobenzene	mg/L	0.0046	0.001	3	0.001	0.44	0.0002	-	-	-	-
Hexachlorobutadiene	mg/L	0.4	0.042	3.2	0.015	1.6	0.000053	-	-	-	-
Hexachlorocyclopentadiene	mg/L	1.6	0.05	0.42	0.05	0.13	-	-	-	-	-
Hexachloroethane	mg/L	1.9	0.021	50	0.0073	27	0.0067	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.002	-	0.002	-	-	-	-	-	-
Isophorone	mg/L	990	3.1	-	0.77	-	1.3	-	-	-	-
Naphthalene	mg/L	31	1.5	31	0.52	31	0.011	-	-	-	-
Nitrobenzene	mg/L	11	0.0096	550	0.0034	280	0.18	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	0.36	0.005	-	0.005	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	35	1.1	-	0.27	-	-	-	-	-	-
Pentachlorophenol	mg/L	0.2	0.001	-	0.001	-	-	-	-	-	-
Phenanthrene	mg/L	1	0.15	1	0.052	1	0.002	-	-	-	-
Phenol	mg/L	29000	13	-	4.4	-	0.45	-	-	-	-
Pyrene	mg/L	0.14	0.14	0.14	0.14	0.14	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-2D*	*B-7*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*B-9~6/21/1995~N~LB*
Sample Date:								*5/12/2011*	*9/14/2011*	*9/15/2011*	*6/21/1995*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Metals											
Aluminum	mg/L	64000	0.05	-	0.05	-	-	0.498 [BA]	0.26 [BA]	0.26 [BA]	-
Aluminum (dissolved)	mg/L	64000	0.05	-	0.05	-	-	-	0.05 U	0.05 U	-
Antimony	mg/L	68	0.006	-	0.006	-	0.13	0.002 U	0.002 U	0.002 U	-
Antimony (dissolved)	mg/L	68	0.006	-	0.006	-	0.13	-	0.002 U	0.002 U	-
Arsenic	mg/L	4.3	0.01	-	0.01	-	0.01	0.004 J	0.013 [BA]	0.005 U	-
Arsenic (dissolved)	mg/L	4.3	0.01	-	0.01	-	0.01	-	0.014 [BA]	0.005 U	-
Barium	mg/L	14000	2	-	2	-	-	0.0833 J	0.31	0.054 J	-
Barium (dissolved)	mg/L	14000	2	-	2	-	-	-	0.33	0.051 J	-
Beryllium	mg/L	290	0.004	-	0.004	-	-	0.001 U	0.001 U	0.001 U	-
Beryllium (dissolved)	mg/L	290	0.004	-	0.004	-	-	-	0.001 U	0.001 U	-
Cadmium	mg/L	190	0.005	-	0.005	-	-	0.001 U	0.001 U	0.001 U	-
Cadmium (dissolved)	mg/L	190	0.005	-	0.005	-	-	-	0.001 U	0.001 U	-
Chromium	mg/L	460	0.1	-	0.1	-	0.011	0.005 U	0.005 U	0.005 U	-
Chromium Total (dissolved)	mg/L	460	0.1	-	0.1	-	0.011	-	0.005 U	0.005 U	0.02 U
Cobalt	mg/L	2400	0.1	-	0.04	-	0.1	0.007 U	0.007 U	0.007 U	-
Cobalt (dissolved)	mg/L	2400	0.1	-	0.04	-	0.1	-	0.007 U	0.007 U	-
Copper	mg/L	7400	1	-	1	-	-	0.0091	0.0021 U	0.0025 U	-
Copper (dissolved)	mg/L	7400	1	-	1	-	-	-	0.002 U	0.0027 U	0.02 U
Iron	mg/L	58000	0.3	-	0.3	-	-	3.23 [BA]	2.2 [BA]	0.3	-
Iron (dissolved)	mg/L	58000	0.3	-	0.3	-	-	-	1.4 [BA]	0.1 U	-
Lead	mg/L	-	0.004	-	0.004	-	-	0.003 U	0.003 U	0.003 U	-
Lead (dissolved)	mg/L	-	0.004	-	0.004	-	-	-	0.003 U	0.003 U	-
Manganese	mg/L	9100	0.05	-	0.05	-	-	0.167 [BA]	0.13 [BA]	0.03	-
Manganese (dissolved)	mg/L	9100	0.05	-	0.05	-	-	-	0.08 [BA]	0.0036 J	-
Mercury	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	0.0002 U	0.0002 U	0.0002 U	-
Mercury (dissolved)	mg/L	0.056	0.002	0.056	0.002	0.056	0.0000013	-	0.0002 U	0.0002 U	-
Molybdenum	mg/L	970	0.21	-	0.073	-	3.2	-	-	-	-
Molybdenum (dissolved)	mg/L	970	0.21	-	0.073	-	3.2	-	-	-	-
Nickel	mg/L	74000	0.1	-	0.1	-	-	0.02 U	0.02 U	0.0044 J	-
Nickel (dissolved)	mg/L	74000	0.1	-	0.1	-	-	-	0.02 U	0.02 U	0.03 U
Selenium	mg/L	970	0.05	-	0.05	-	0.005	0.005 U	0.005 U	0.005 U	-
Selenium (dissolved)	mg/L	970	0.05	-	0.05	-	0.005	-	0.005 U	0.005 U	-
Silver	mg/L	1500	0.098	-	0.034	-	0.0002	0.0002 U	0.0002 U	0.0002 U	-
Silver (dissolved)	mg/L	1500	0.098	-	0.034	-	0.0002	-	0.0002 U	0.0002 U	-
Sodium (dissolved)	mg/L	1000000	350	-	120	-	-	-	-	-	-
Thallium	mg/L	13	0.002	-	0.002	-	0.0037	0.001 U	0.0021 U	0.001 U	-
Thallium (dissolved)	mg/L	13	0.002	-	0.002	-	0.0037	-	0.001 U	0.001 U	-
Vanadium	mg/L	970	0.062	-	0.0045	-	0.012	0.004 U	0.004 U	0.004 U	-
Vanadium (dissolved)	mg/L	970	0.062	-	0.0045	-	0.012	-	0.004 U	0.004 U	-
Zinc	mg/L	110000	5	-	2.4	-	-	0.02 U	0.02 U	0.02 U	-
Zinc (dissolved)	mg/L	110000	5	-	2.4	-	-	-	0.02 U	0.02 U	0.02 U
Pesticides											

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:								*B-2D*	*B-2D*	*B-7*	*B-9*
Sample ID:								*GW-12636-051211-SSH-107*	*GW-12636-091411-JY-019*	*GW-12636-0915-SSH-022*	*B-9~6/21/1995~N~LB*
Sample Date:								*5/12/2011*	*9/14/2011*	*9/15/2011*	*6/21/1995*
Parameters:	***Units***	***a***	***b***	***c***	***d***	***e***	***f***				
Aroclor-1016 (PCB-1016)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
Total PCBs	mg/L	0.0033	0.0005	0.045	0.0005	0.045	0.0002	-	-	-	-
General Chemistry											
Conductance, specific	umhos/cm	-	-	-	-	-	-	-	-	-	2400
Cyanide (amenable)	mg/L	57	0.2	-	0.2	-	-	0.010 U	0.0050 U	0.0050 U	-
Cyanide (total)	mg/L	57	0.2	-	0.2	-	0.0052	-	0.0050 U	0.0050 U	-
pH	s.u.	-	6.5 - 8.5	-	6.5 - 8.5	-	-	-	-	-	7.7
Temperature, field	Deg C	-	-	-	-	-	-	-	-	-	14.6
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	3.5
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	0.034

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*	*B-9~8/21/1996~N~LB*	*B-9~11/13/1996~N~LB*	*B-9~5/6/1997~N~LB*	*B-9~11/6/1997~N~LB*	*B-9~5/4/1998~N~LB*
Sample Date:		*8/31/1995*	*2/9/1996*	*6/19/1996*	*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*
Parameters:	*Units*								
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromobenzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*	*B-9~8/21/1996~N~LB*	*B-9~11/13/1996~N~LB*	*B-9~5/6/1997~N~LB*	*B-9~11/6/1997~N~LB*	*B-9~5/4/1998~N~LB*
Sample Date:		*8/31/1995*	*2/9/1996*	*6/19/1996*	*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*
Parameters:	***Units***								
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Diisopropyl ether	mg/L	-	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*	*B-9~8/21/1996~N~LB*	*B-9~11/13/1996~N~LB*	*B-9~5/6/1997~N~LB*	*B-9~11/6/1997~N~LB*	*B-9~5/4/1998~N~LB*
Sample Date:		*8/31/1995*	*2/9/1996*	*6/19/1996*	*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*
Parameters:	*Units*								
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~8/31/1995~N~LB*	*B-9~2/9/1996~N~LB*	*B-9~6/19/1996~N~LB*	*B-9~8/21/1996~N~LB*	*B-9~11/13/1996~N~LB*	*B-9~5/6/1997~N~LB*	*B-9~11/6/1997~N~LB*	*B-9~5/4/1998~N~LB*
Sample Date:		*8/31/1995*	*2/9/1996*	*6/19/1996*	*8/21/1996*	*11/13/1996*	*5/6/1997*	*11/6/1997*	*5/4/1998*
Parameters:	***Units***								
Metals									
Aluminum	mg/L	-	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.037[1]	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.01
Cobalt	mg/L	-	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.043	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.01
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	-	-	-	-	-	0.65[bu]	-
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	-	-	-	-	-	-	0.741[bu]	-
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.04 U	0.04 U	0.02 U	0.02 U	0.02 U	0.051	0.183[bu]	0.018
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.02 U	0.02 U	0.02 U	0.07	0.04	0.02	0.04	0.04
Pesticides									

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		***B-9***	***B-9***	***B-9***	***B-9***	***B-9***	***B-9***	***B-9***	***B-9***
Sample ID:		***B-9~8/31/1995~N~LB***	***B-9~2/9/1996~N~LB***	***B-9~6/19/1996~N~LB***	***B-9~8/21/1996~N~LB***	***B-9~11/13/1996~N~LB***	***B-9~5/6/1997~N~LB***	***B-9~11/6/1997~N~LB***	***B-9~5/4/1998~N~LB***
Sample Date:		***8/31/1995***	***2/9/1996***	***6/19/1996***	***8/21/1996***	***11/13/1996***	***5/6/1997***	***11/6/1997***	***5/4/1998***
Parameters:	***Units***								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-	-
General Chemistry									
Conductance, specific	umhos/cm	1829	2860	2550	2310	3280	2600	2800	2400
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	7.7	7.3	6.8	8	6.8	6.8	6.5	6.6
Temperature, field	Deg C	14.8	8	11.5	16.4	9.2	10	11	14.5
Total organic carbon (TOC)	mg/L	3.9	3.1	2.1	2.3	71	3	2	3
Total organic halides (TOX)	mg/L	0.01 U	0.01 U	0.1 U	0.005 U	0.005 U	0.1 U	0.1 U	0.005 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~4/26/1999~N~LB*	*B-9~11/5/1999~N~LB*	*B-9~4/26/2000~N~LB*	*B-9~12/8/2000~N~LB*	*B-9~5/16/2001~N~LB*	*B-9~10/17/2001~N~LB*	*B-9~5/16/2002~N~LB*
Sample Date:		*4/26/1999*	*11/5/1999*	*4/26/2000*	*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~4/26/1999~N~LB*	*B-9~11/5/1999~N~LB*	*B-9~4/26/2000~N~LB*	*B-9~12/8/2000~N~LB*	*B-9~5/16/2001~N~LB*	*B-9~10/17/2001~N~LB*	*B-9~5/16/2002~N~LB*
Sample Date:		*4/26/1999*	*11/5/1999*	*4/26/2000*	*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~4/26/1999~N~LB*	*B-9~11/5/1999~N~LB*	*B-9~4/26/2000~N~LB*	*B-9~12/8/2000~N~LB*	*B-9~5/16/2001~N~LB*	*B-9~10/17/2001~N~LB*	*B-9~5/16/2002~N~LB*
Sample Date:		*4/26/1999*	*11/5/1999*	*4/26/2000*	*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*
Parameters:	***Units***							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~4/26/1999~N~LB*	*B-9~11/5/1999~N~LB*	*B-9~4/26/2000~N~LB*	*B-9~12/8/2000~N~LB*	*B-9~5/16/2001~N~LB*	*B-9~10/17/2001~N~LB*	*B-9~5/16/2002~N~LB*
Sample Date:		*4/26/1999*	*11/5/1999*	*4/26/2000*	*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*
Parameters:	***Units***							
Metals								
Aluminum	mg/L	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	mg/L	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	mg/L	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	0.61 [bu]	-	0.05	-	0.94 [bu]	-
Lead	mg/L	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	-	1.28 [bu]	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.019	0.02	0.012	0.046	0.007	0.008	0.007
Selenium	mg/L	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	47.1	-	69.5	-	66	-
Thallium	mg/L	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.02	0.03	0.03	0.01 U	0.01	0.02	0.01
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~4/26/1999~N~LB*	*B-9~11/5/1999~N~LB*	*B-9~4/26/2000~N~LB*	*B-9~12/8/2000~N~LB*	*B-9~5/16/2001~N~LB*	*B-9~10/17/2001~N~LB*	*B-9~5/16/2002~N~LB*
Sample Date:		*4/26/1999*	*11/5/1999*	*4/26/2000*	*12/8/2000*	*5/16/2001*	*10/17/2001*	*5/16/2002*
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	1860	2340	2780	2400	1070	2130	2470
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-
pH	s.u.	7.7	6.8	7.6	7.6	7.4	7.5	7.2
Temperature, field	Deg C	12.2	15.4	9.5	7.8	12.6	10.8	11.6
Total organic carbon (TOC)	mg/L	4	2.5	5.5	5	4.8	4	1.9
Total organic halides (TOX)	mg/L	0.1 U	0.1 U	0.1 U	0.01 U	0.1 U	0.1 U	0.1 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~6/4/2003~N~LB*	*B-9~6/30/2004~N~LB*	*B-9~12/9/2004~N~LB*	*B-9~6/8/2005~N~LB*	*B-9~12/7/2005~N~LB*	*B-9~6/29/2006~N~LB*	*B-9~11/30/2006~N~LB*	*B-9~6/5/2007~N~LB*
Sample Date:		*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*	*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*
Parameters:	*Units*								
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	-	-
Bromobenzene	mg/L	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-	-	-
Chlorobromomethane	mg/L	-	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~6/4/2003~N~LB*	*B-9~6/30/2004~N~LB*	*B-9~12/9/2004~N~LB*	*B-9~6/8/2005~N~LB*	*B-9~12/7/2005~N~LB*	*B-9~6/29/2006~N~LB*	*B-9~11/30/2006~N~LB*	*B-9~6/5/2007~N~LB*
Sample Date:		*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*	*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*
Parameters:	***Units***								
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	-	-
Diisopropyl ether	mg/L	-	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	-	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	-	-
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds									
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~6/4/2003~N~LB*	*B-9~6/30/2004~N~LB*	*B-9~12/9/2004~N~LB*	*B-9~6/8/2005~N~LB*	*B-9~12/7/2005~N~LB*	*B-9~6/29/2006~N~LB*	*B-9~11/30/2006~N~LB*	*B-9~6/5/2007~N~LB*
Sample Date:		*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*	*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*
Parameters:	*Units*								
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~6/4/2003~N~LB*	*B-9~6/30/2004~N~LB*	*B-9~12/9/2004~N~LB*	*B-9~6/8/2005~N~LB*	*B-9~12/7/2005~N~LB*	*B-9~6/29/2006~N~LB*	*B-9~11/30/2006~N~LB*	*B-9~6/5/2007~N~LB*
Sample Date:		*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*	*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*
Parameters:	***Units***								
Metals									
Aluminum	mg/L	-	-	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.005 U	0.005 U	0.005 U	0.006	0.011	0.006	0.005 U	0.012[1]
Cobalt	mg/L	-	-	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.005 U	0.008	0.005 U	0.006	0.005	0.006	0.006	0.006
Iron	mg/L	-	-	-	-	-	-	-	-
Iron (dissolved)	mg/L	-	-	0.57[bd]	0.48[bd]	0.32[bd]	0.39[bd]	-	0.32[bd]
Lead	mg/L	-	-	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-
Manganese (dissolved)	mg/L	-	-	0.248[bd]	0.701[bd]	0.41[bd]	0.33[bd]	-	1.9[bd]
Mercury	mg/L	-	-	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.015	0.019	0.011	0.012	0.012	0.013	0.005 U	0.024
Selenium	mg/L	-	-	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	55.9	58.3	58.5	63.6	-	67.3
Thallium	mg/L	-	-	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.013	0.028	0.019	0.017	0.04	0.019	0.014	0.021
Pesticides									

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~6/4/2003~N~LB*	*B-9~6/30/2004~N~LB*	*B-9~12/9/2004~N~LB*	*B-9~6/8/2005~N~LB*	*B-9~12/7/2005~N~LB*	*B-9~6/29/2006~N~LB*	*B-9~11/30/2006~N~LB*	*B-9~6/5/2007~N~LB*
Sample Date:		*6/4/2003*	*6/30/2004*	*12/9/2004*	*6/8/2005*	*12/7/2005*	*6/29/2006*	*11/30/2006*	*6/5/2007*
Parameters:	***Units***								
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-	-
General Chemistry									
Conductance, specific	umhos/cm	2690	2379	2480	2116	2830	2820	2830	2770
Cyanide (amenable)	mg/L	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-	-	-
pH	s.u.	6.8	6.9	5.9[ua]	7.1	8.6[ua]	6.8	7.2	6.7
Temperature, field	Deg C	10.7	12.7	11.4	10.3	11.9	12.4	12.5	11
Total organic carbon (TOC)	mg/L	2.2	3.8	3	4	5	1.9	2.7	2.1
Total organic halides (TOX)	mg/L	0.057	-	0.03 U	0.03 U	0.03 U	0.03 U	0.0367	0.03 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~11/16/2007~N~LB*	*B-9~7/2/2008~N~LB*	*B-9 Dup.~11/20/2008~FD~LB*	*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*
Sample Date:		*11/16/2007*	*7/2/2008*	*11/20/2008*	*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*
				(Duplicate)				
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	-	-	-	-	-	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	0.005 U
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dichloroethane	mg/L	-	-	-	-	-	-	0.001 U
1,2-Dichloropropane	mg/L	-	-	-	-	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	0.001 U
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	-	-	-	-	0.05 U
Acetone	mg/L	-	-	-	-	-	-	0.025 U
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-	0.001 U
Bromoform	mg/L	-	-	-	-	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-	0.001 UJ
Carbon disulfide	mg/L	-	-	-	-	-	-	0.005 U
Carbon tetrachloride	mg/L	-	-	-	-	-	-	0.001 U
Chlorobenzene	mg/L	-	-	-	-	-	-	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-	0.001 U
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-	0.001 U
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	0.001 U
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U
Cyclohexane	mg/L	-	-	-	-	-	-	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		***B-9***	***B-9***	***B-9***	***B-9***	***B-9***	***B-9***	***B-9***
Sample ID:		***B-9~11/16/2007~N~LB***	***B-9~7/2/2008~N~LB***	***B-9 Dup.~11/20/2008~FD~LB***	***B-9~11/20/2008~N~LB***	***B-9~6/25/2009~N~LB***	***B-9~11/16/2009~N~LB***	***GW-12636-120310-BW-019***
Sample Date:		***11/16/2007***	***7/2/2008***	***11/20/2008 (Duplicate)***	***11/20/2008***	***6/25/2009***	***11/16/2009***	***12/3/2010***
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-	0.005 U
m&p-Xylenes	mg/L	-	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	0.005 U
Methylene chloride	mg/L	-	-	-	-	-	-	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	0.001 U
Vinyl chloride	mg/L	-	-	-	-	-	-	0.001 U
Xylenes (total)	mg/L	-	-	-	-	-	-	0.002 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~11/16/2007~N~LB*	*B-9~7/2/2008~N~LB*	*B-9 Dup.~11/20/2008~FD~LB*	*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*
Sample Date:		*11/16/2007*	*7/2/2008*	*11/20/2008*	*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*
				(Duplicate)				
Parameters:	*Units*							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~11/16/2007~N~LB*	*B-9~7/2/2008~N~LB*	*B-9 Dup.~11/20/2008~FD~LB*	*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*
Sample Date:		*11/16/2007*	*7/2/2008*	*11/20/2008 (Duplicate)*	*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*
Parameters:	*Units*							
Metals								
Aluminum	mg/L	-	-	-	-	-	-	0.704 [BU]
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-	0.00023 J
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	0.0033 J
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-	0.0173 J
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	0.005 U
Chromium Total (dissolved)	mg/L	0.002	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	-
Cobalt	mg/L	-	-	-	-	-	-	0.0019 J
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	0.0031
Copper (dissolved)	mg/L	0.006	0.004	0.001 U	0.001 U	0.001 U	0.004 U	-
Iron	mg/L	-	-	-	-	-	-	1.01 [BU]
Iron (dissolved)	mg/L	-	0.78 [BU]	-	-	0.059	-	-
Lead	mg/L	-	-	-	-	-	-	0.003 U
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-	0.391 [BU]
Manganese (dissolved)	mg/L	-	0.812 [BU]	-	-	0.173 [BU]	-	-
Mercury	mg/L	-	-	-	-	-	-	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	0.0072 J
Nickel (dissolved)	mg/L	0.024	0.013	0.013	0.013	0.005 U	0.016	-
Selenium	mg/L	-	-	-	-	-	-	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	64.2	-	-	65.3	-	-
Thallium	mg/L	-	-	-	-	-	-	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-	0.0012 J
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	0.0211 U
Zinc (dissolved)	mg/L	0.018	0.019	0.005 U	0.005 U	0.005 U	0.008	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*	*B-9*
Sample ID:		*B-9~11/16/2007~N~LB*	*B-9~7/2/2008~N~LB*	*B-9 Dup.~11/20/2008~FD~LB*	*B-9~11/20/2008~N~LB*	*B-9~6/25/2009~N~LB*	*B-9~11/16/2009~N~LB*	*GW-12636-120310-BW-019*
Sample Date:		*11/16/2007*	*7/2/2008*	*11/20/2008*	*11/20/2008*	*6/25/2009*	*11/16/2009*	*12/3/2010*
				(Duplicate)				
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	3000	3060	3280	3290	2700	3030	-
Cyanide (amenable)	mg/L	-	-	-	-	-	-	0.010 U
Cyanide (total)	mg/L	-	-	-	-	-	-	-
pH	s.u.	6.7	6.4 [bd]	6.4 [bd]	6.4 [bd]	6.7	6.7	-
Temperature, field	Deg C	9.4	19.7	8.1	8.1	19.8	12.7	-
Total organic carbon (TOC)	mg/L	2	1.8	2	2.2	1.6	3	-
Total organic halides (TOX)	mg/L	0.0274	0.0364	0.127	0.0159	0.03 U	0.0841	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-18A*	*B-19A*	*B-19A*	*B-19A*
Sample ID:		*GW-12636-051111-SSH-104*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*	*GW-12636-051211-SSH-106*	*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*
Sample Date:		*5/11/2011*	*9/14/2011*	*9/14/2011*	*5/12/2011*	*9/14/2011*	*9/14/2011* *(Duplicate)*
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	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	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.025 U	0.01 U	0.01 U	0.025 U	0.01 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.05 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U
Acetone	mg/L	0.025 U	0.01 U	0.01 U	0.025 U	0.01 U	0.01 U
Acrylonitrile	mg/L	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-18A*	*B-19A*	*B-19A*	*B-19A*
Sample ID:		*GW-12636-051111-SSH-104*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*	*GW-12636-051211-SSH-106*	*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*
Sample Date:		*5/11/2011*	*9/14/2011*	*9/14/2011*	*5/12/2011*	*9/14/2011*	*9/14/2011*
							(Duplicate)
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ
Diisopropyl ether	mg/L	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.005 U	0.001 U	0.001 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	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-18A*	*B-19A*	*B-19A*	*B-19A*
Sample ID:		*GW-12636-051111-SSH-104*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*	*GW-12636-051211-SSH-106*	*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*
Sample Date:		*5/11/2011*	*9/14/2011*	*9/14/2011*	*5/12/2011*	*9/14/2011*	*9/14/2011*
							(Duplicate)
Parameters:	*Units*						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-18A*	*B-19A*	*B-19A*	*B-19A*
Sample ID:		*GW-12636-051111-SSH-104*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*	*GW-12636-051211-SSH-106*	*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*
Sample Date:		*5/11/2011*	*9/14/2011*	*9/14/2011*	*5/12/2011*	*9/14/2011*	*9/14/2011*
							(Duplicate)
Parameters:	*Units*						
Metals							
Aluminum	mg/L	0.268 [bd]	0.022 J	0.05 U	0.2 U	0.05 U	0.05 U
Aluminum (dissolved)	mg/L	-	-	0.05 U	-	-	-
Antimony	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	0.002 U	-	-	-
Arsenic	mg/L	0.005 U	0.005 U	0.0038 J	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	0.005 U	-	-	-
Barium	mg/L	0.0101 J	0.011 J	0.033 J	0.0671 J	0.068 J	0.067 J
Barium (dissolved)	mg/L	-	-	0.033 J	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	0.001 U	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	0.001 U	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-	0.005 U	-	-	-
Cobalt	mg/L	0.0022 J	0.01	0.007 U	0.007 U	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	-	0.007 U	-	-	-
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Copper (dissolved)	mg/L	-	-	0.002 U	-	-	-
Iron	mg/L	0.302 [bd]	0.27	0.1 U	0.0927 J	0.1 U	0.1 U
Iron (dissolved)	mg/L	-	-	0.1 U	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-	0.003 U	-	-	-
Manganese	mg/L	0.211 [bd]	6.8 J [bd]	0.015	0.0065 J	0.0057 J	0.0032 J
Manganese (dissolved)	mg/L	-	-	0.025	-	-	-
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-	0.00019 J [1]	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.0035 J	0.066	0.02 U	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	-	0.0042 J	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	0.005 U	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	0.0002 U	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	0.001 U	-	-	-
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-	0.004 U	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-	0.02 U	-	-	-
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-9*	*B-9*	*B-18A*	*B-19A*	*B-19A*	*B-19A*
Sample ID:		*GW-12636-051111-SSH-104*	*GW-12636-091411-JY-015*	*GW-12636-091411-JY-020*	*GW-12636-051211-SSH-106*	*GW-12636-091411-JY-016*	*GW-12636-091411-JY-017*
Sample Date:		*5/11/2011*	*9/14/2011*	*9/14/2011*	*5/12/2011*	*9/14/2011*	*9/14/2011*
							(Duplicate)
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.0050 U	0.0050 U	0.010 U	0.0050 U	0.0050 U
Cyanide (total)	mg/L	-	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U
pH	s.u.	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19AR*	*B-20D*	*B-21D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*B-27D~12/8/2005~N~LB*	*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*
Sample Date:		*9/15/2011*	*9/15/2011*	*9/15/2011*	*12/8/2005*	*6/27/2006*	*11/30/2006*
Parameters:	***Units***						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	-	-	-
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	0.01 U	0.01 U	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.01 U	0.01 U	0.01 U	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	0.01 U	0.01 U	-	-	-
Acetone	mg/L	0.01 U	0.01 U	0.01 U	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Bromobenzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Chlorobromomethane	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
cis-1,2-Dichloroethene	mg/L	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	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19AR*	*B-20D*	*B-21D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*B-27D~12/8/2005~N~LB*	*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*
Sample Date:		*9/15/2011*	*9/15/2011*	*9/15/2011*	*12/8/2005*	*6/27/2006*	*11/30/2006*
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Diisopropyl ether	mg/L	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	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	-	-	-
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Tetrahydrofuran	mg/L	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19AR*	*B-20D*	*B-21D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*B-27D~12/8/2005~N~LB*	*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*
Sample Date:		*9/15/2011*	*9/15/2011*	*9/15/2011*	*12/8/2005*	*6/27/2006*	*11/30/2006*
Parameters:	***Units***						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19AR*	*B-20D*	*B-21D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*B-27D~12/8/2005~N~LB*	*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*
Sample Date:		*9/15/2011*	*9/15/2011*	*9/15/2011*	*12/8/2005*	*6/27/2006*	*11/30/2006*
Parameters:	***Units***						
Metals							
Aluminum	mg/L	4 [bd]	1.1 [bd]	0.17 [bd]	-	-	-
Aluminum (dissolved)	mg/L	1.6 [bd]	0.085 [bd]	0.05 U	-	-	-
Antimony	mg/L	0.002 U	0.002 U	0.002 U	-	-	-
Antimony (dissolved)	mg/L	0.002 U	0.002 U	0.002 U	-	-	-
Arsenic	mg/L	0.0035 J	0.04 [bd]	0.054 [bd]	-	-	-
Arsenic (dissolved)	mg/L	0.005 U	0.036 [bd]	0.048 [bd]	-	-	-
Barium	mg/L	0.072 J	0.05 J	0.16	-	-	-
Barium (dissolved)	mg/L	0.045 J	0.042 J	0.15	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Beryllium (dissolved)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Cadmium (dissolved)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Chromium	mg/L	0.0078	0.005 U	0.0025 J	-	-	-
Chromium Total (dissolved)	mg/L	0.005 U	0.005 U	0.005 U	0.009	0.006	0.005 U
Cobalt	mg/L	0.0027 J	0.007 U	0.0018 J	-	-	-
Cobalt (dissolved)	mg/L	0.007 U	0.007 U	0.007 U	-	-	-
Copper	mg/L	0.0045 U	0.0037 U	0.002 U	-	-	-
Copper (dissolved)	mg/L	0.0052	0.002 U	0.002 U	0.004 U	0.004 U	0.004 U
Iron	mg/L	5.1 [bd]	3.4 [bd]	4.4 [bd]	-	-	-
Iron (dissolved)	mg/L	0.23	1.8 [bd]	1 [bd]	0.24	1.05 [bd]	-
Lead	mg/L	0.0029 J	0.003 U	0.0022 J	-	-	-
Lead (dissolved)	mg/L	0.003 U	0.003 U	0.003 U	-	-	-
Manganese	mg/L	0.12 [bd]	0.08 [bd]	0.15 [bd]	-	-	-
Manganese (dissolved)	mg/L	0.0071 J	0.047	0.035	0.14 [bd]	0.11 [bd]	-
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	0.0002 U	0.0002 U	0.0002 U	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.01 J	0.02 U	0.0055 J	-	-	-
Nickel (dissolved)	mg/L	0.02 U	0.02 U	0.02 U	0.006	0.007	0.005 U
Selenium	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Selenium (dissolved)	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Silver	mg/L	0.00053 [r]	0.0002 U	0.0002 U	-	-	-
Silver (dissolved)	mg/L	0.0002 U	0.0002 U	0.0002 U	-	-	-
Sodium (dissolved)	mg/L	-	-	-	34.2	32.3	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Thallium (dissolved)	mg/L	0.001 U	0.001 U	0.001 U	-	-	-
Vanadium	mg/L	0.0096 [d]	0.004 U	0.0047 [d]	-	-	-
Vanadium (dissolved)	mg/L	0.004 U	0.004 U	0.004 U	-	-	-
Zinc	mg/L	0.035 U	0.02 U	0.039 U	-	-	-
Zinc (dissolved)	mg/L	0.02 U	0.02 U	0.02 U	0.01 U	0.006	0.006
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-19AR*	*B-20D*	*B-21D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*GW-12636-0915-SSH-023*	*GW-12636-0915-SSH-025*	*GW-12636-0915-SSH-024*	*B-27D~12/8/2005~N~LB*	*B-27D~6/27/2006~N~LB*	*B-27D~11/30/2006~N~LB*
Sample Date:		*9/15/2011*	*9/15/2011*	*9/15/2011*	*12/8/2005*	*6/27/2006*	*11/30/2006*
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	714	644	540
Cyanide (amenable)	mg/L	0.0050 U	0.0050 U	0.0050 U	-	-	-
Cyanide (total)	mg/L	0.0050 U	0.0050 U	0.0050 U	-	-	-
pH	s.u.	-	-	-	5 [bu]	7.1	7.5
Temperature, field	Deg C	-	-	-	4.8	13.5	11.7
Total organic carbon (TOC)	mg/L	-	-	-	3.7	1.3	1 U
Total organic halides (TOX)	mg/L	-	-	-	0.03 U	0.03 U	0.03 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/8/2007~N~LB*	*B-27D~11/15/2007~N~LB*	*B-27D~6/26/2008~N~LB*	*B-27D~11/21/2008~N~LB*	*B-27D~6/25/2009~N~LB*	*B-27D~11/18/2009~N~LB*
Sample Date:		*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*	*11/18/2009*
Parameters:	***Units***						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethane	mg/L	-	-	-	-	-	-
1,1-Dichloroethene	mg/L	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/L	-	-	-	-	-	-
1,2-Dichloroethane	mg/L	-	-	-	-	-	-
1,2-Dichloropropane	mg/L	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/L	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	-	-	-	-
Acetone	mg/L	-	-	-	-	-	-
Acrylonitrile	mg/L	-	-	-	-	-	-
Benzene	mg/L	-	-	-	-	-	-
Bromobenzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	-	-	-	-
Bromoform	mg/L	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/L	-	-	-	-	-	-
Carbon disulfide	mg/L	-	-	-	-	-	-
Carbon tetrachloride	mg/L	-	-	-	-	-	-
Chlorobenzene	mg/L	-	-	-	-	-	-
Chlorobromomethane	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/L	-	-	-	-	-	-
Chloromethane (Methyl chloride)	mg/L	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
Cyclohexane	mg/L	-	-	-	-	-	-
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	-	-	-	-
Dibromomethane	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/8/2007~N~LB*	*B-27D~11/15/2007~N~LB*	*B-27D~6/26/2008~N~LB*	*B-27D~11/21/2008~N~LB*	*B-27D~6/25/2009~N~LB*	*B-27D~11/18/2009~N~LB*
Sample Date:		*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*	*11/18/2009*
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	-	-	-
Diisopropyl ether	mg/L	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	-	-	-	-
m&p-Xylenes	mg/L	-	-	-	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-
Methylene chloride	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	-	-	-	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	-	-	-	-
Tetrahydrofuran	mg/L	-	-	-	-	-	-
Toluene	mg/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/L	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	mg/L	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-
Vinyl chloride	mg/L	-	-	-	-	-	-
Xylenes (total)	mg/L	-	-	-	-	-	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/8/2007~N~LB*	*B-27D~11/15/2007~N~LB*	*B-27D~6/26/2008~N~LB*	*B-27D~11/21/2008~N~LB*	*B-27D~6/25/2009~N~LB*	*B-27D~11/18/2009~N~LB*
Sample Date:		*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*	*11/18/2009*
Parameters:	***Units***						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/8/2007~N~LB*	*B-27D~11/15/2007~N~LB*	*B-27D~6/26/2008~N~LB*	*B-27D~11/21/2008~N~LB*	*B-27D~6/25/2009~N~LB*	*B-27D~11/18/2009~N~LB*
Sample Date:		*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*	*11/18/2009*
Parameters:	***Units***						
Metals							
Aluminum	mg/L	-	-	-	-	-	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	-
Antimony	mg/L	-	-	-	-	-	-
Antimony (dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	-	-	-	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-
Chromium Total (dissolved)	mg/L	0.009	0.002	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt	mg/L	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-
Copper (dissolved)	mg/L	0.002	0.001	0.001 U	0.001 U	0.001	0.004 U
Iron	mg/L	-	-	-	-	-	-
Iron (dissolved)	mg/L	1.52 [bu]	-	0.3	-	2.03 [bu]	-
Lead	mg/L	-	-	-	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	-	-
Manganese	mg/L	-	-	-	-	-	-
Manganese (dissolved)	mg/L	0.058 [bu]	-	0.059 [bu]	-	0.052 [bu]	-
Mercury	mg/L	-	-	-	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-
Nickel (dissolved)	mg/L	0.003	0.005	0.005 U	0.005 U	0.005 U	0.005 U
Selenium	mg/L	-	-	-	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-
Sodium (dissolved)	mg/L	36.3	-	33.9	-	37.2	-
Thallium	mg/L	-	-	-	-	-	-
Thallium (dissolved)	mg/L	-	-	-	-	-	-
Vanadium	mg/L	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-
Zinc (dissolved)	mg/L	0.036	0.032	0.005 U	0.005 U	0.005 U	0.005 U
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*	*B-27D*
Sample ID:		*B-27D~6/8/2007~N~LB*	*B-27D~11/15/2007~N~LB*	*B-27D~6/26/2008~N~LB*	*B-27D~11/21/2008~N~LB*	*B-27D~6/25/2009~N~LB*	*B-27D~11/18/2009~N~LB*
Sample Date:		*6/8/2007*	*11/15/2007*	*6/26/2008*	*11/21/2008*	*6/25/2009*	*11/18/2009*
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	628	649	659	667	651	653
Cyanide (amenable)	mg/L	-	-	-	-	-	-
Cyanide (total)	mg/L	-	-	-	-	-	-
pH	s.u.	6.6	7.3	7.1	6.8	6.8	7.3
Temperature, field	Deg C	14.6	11.6	16.3	6.6	16.5	11.2
Total organic carbon (TOC)	mg/L	4	1.9	1.7	1.3	1 U	2
Total organic halides (TOX)	mg/L	0.0257	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*
Sample ID:		*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*GW-12636-091411-JY-018*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*
Sample Date:		*12/3/2010*	*5/12/2011*	*9/14/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*
						(other)		
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U	0.001 UJ	-	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	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	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.001 U	-	-	0.005 U	0.005 UJ
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 UJ	0.001 U	0.001 UJ	-	-	0.001 UJ	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.025 U	0.025 U	0.01 U	-	0.05 U	0.025 U	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	0.05 U	0.05 U	0.01 U	-	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.05 U	0.01 U	-	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.01 U	-	0.1 U	0.025 U	0.025 U
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.005 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 U	0.001 UJ	U	0.001 U	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	-	0.05 U	0.005 U	0.005 UJ
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 U	0.001 UJ	-	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.005	0.00023 J	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	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*
Sample ID:		*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*GW-12636-091411-JY-018*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*
Sample Date:		*12/3/2010*	*5/12/2011*	*9/14/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*
						(other)		
Parameters:	*Units*							
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 UJ	-	-	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.001 U	-	-	0.005 U	0.005 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	0.005 U	0.005 U	0.005 U	-	-	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 UJ
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.0006	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.0017	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.0048	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	-	0.003 U	0.002 U	0.002 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*
Sample ID:		*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*GW-12636-091411-JY-018*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*
Sample Date:		*12/3/2010*	*5/12/2011*	*9/14/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*
						(other)		
Parameters:	*Units*							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*
Sample ID:		*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*GW-12636-091411-JY-018*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*
Sample Date:		*12/3/2010*	*5/12/2011*	*9/14/2011*	*11/14/1996*	*11/14/1996 (other)*	*12/2/2010*	*5/13/2011*
Parameters:	*Units*							
Metals								
Aluminum	mg/L	15.1 [bd]	1.05 [bd]	0.76 [bd]	-	-	1.85 [bd]	0.633 [bd]
Aluminum (dissolved)	mg/L	-	-	0.072 [bd]	-	-	-	-
Antimony	mg/L	0.00049 J	0.002 U	0.002 U	-	-	0.00036 J	0.002 U
Antimony (dissolved)	mg/L	-	-	0.002 U	-	-	-	-
Arsenic	mg/L	0.0644 [bd]	0.0454 [bd]	0.044 [bd]	U	-	0.0094	0.005 U
Arsenic (dissolved)	mg/L	-	-	0.045 [bd]	-	-	-	-
Barium	mg/L	0.28	0.195	0.18	U	-	0.0566 J	0.0445 J
Barium (dissolved)	mg/L	-	-	0.18	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	0.001 U	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	0.001 U	-	-	-	-
Chromium	mg/L	0.033 [1]	0.005 U	0.005 U	-	-	0.0035 J	0.005 U
Chromium Total (dissolved)	mg/L	-	-	0.005 U	-	-	-	-
Cobalt	mg/L	0.0127	0.007 U	0.007 U	-	-	0.0032 J	0.007 U
Cobalt (dissolved)	mg/L	-	-	0.007 U	-	-	-	-
Copper	mg/L	0.0258	0.0025 U	0.002 U	U	-	0.028	0.0083
Copper (dissolved)	mg/L	-	-	0.002 U	-	-	-	-
Iron	mg/L	27.9 [bd]	2.82 [bd]	1.9 [bd]	-	-	3.59 [bd]	0.857 [bd]
Iron (dissolved)	mg/L	-	-	1.1 [bd]	-	-	-	-
Lead	mg/L	0.0123 [bd]	0.003 U	0.003 U	U	-	0.0142 [bd]	0.0033
Lead (dissolved)	mg/L	-	-	0.003 U	-	-	-	-
Manganese	mg/L	0.584 [bd]	0.0637 [bd]	0.037 J	-	-	0.164 [bd]	0.0567 [bd]
Manganese (dissolved)	mg/L	-	-	0.028	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 U	0.0002 U	-	-	0.0002 UJ	0.0002 U
Mercury (dissolved)	mg/L	-	-	0.0002 U	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.0328	0.02 U	0.02 U	-	-	0.0116 J	0.0037 J
Nickel (dissolved)	mg/L	-	-	0.02 U	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	U	-	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	0.005 U	-	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	-	-	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	0.0002 U	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	0.0017 U	-	-	-	-
Vanadium	mg/L	0.0403 [df]	0.004 U	0.004 U	-	-	0.0043	0.004 U
Vanadium (dissolved)	mg/L	-	-	0.004 U	-	-	-	-
Zinc	mg/L	0.105 J	0.0209 U	0.02 U	U	-	0.196 J	0.0809
Zinc (dissolved)	mg/L	-	-	0.02 U	-	-	-	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*B-27D*	*B-27D*	*B-27D*	*MW-1*	*MW-1*	*MW-1*	*MW-1*
Sample ID:		*GW-12636-120310-BW-017*	*GW-12636-051211-SSH-108*	*GW-12636-091411-JY-018*	*MW-1*	*W-111496-BM-008*	*GW-12636-120210-BW-011*	*GW-12636-051311-SSH-110*
Sample Date:		*12/3/2010*	*5/12/2011*	*9/14/2011*	*11/14/1996*	*11/14/1996*	*12/2/2010*	*5/13/2011*
						(other)		
Parameters:	*Units*							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	0.0002 U	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	0.0002 U	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	0.0004 U	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	0.0002 U	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	0.0002 U	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	0.0002 U	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	0.0002 U	-	-
Total PCBs	mg/L	-	-	-	-	0.0002 U	-	-
General Chemistry								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.0050 U	-	-	0.010 U	0.010 U
Cyanide (total)	mg/L	-	-	0.0050 U	-	-	-	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2-02*
Sample ID:		*GW-12636-091211-JY-005*	*MW-2*	*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-091211-JY-003*	*GW-12636-112910-BW-002*
Sample Date:		*9/12/2011*	*11/14/1996*	*11/14/1996*	*12/3/2010*	*5/13/2011*	*9/12/2011*	*11/29/2010*
				(other)				
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	-	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	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.001 U	-	-	0.005 U	0.005 UJ	0.001 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	-	-	0.001 UJ	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.01 U	-	0.05 U	0.025 U	0.025 U	0.01 U	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	0.01 U	-	0.05 U	0.05 U	0.05 U	0.01 U	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.01 U	-	0.05 U	0.05 U	0.05 U	0.01 U	0.05 U
Acetone	mg/L	0.01 U	-	0.1 U	0.025 U	0.025 U	0.01 U	0.025 U
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	0.001 U	-	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	U	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.005 U	-	0.05 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2-02*
Sample ID:		*GW-12636-091211-JY-005*	*MW-2*	*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-091211-JY-003*	*GW-12636-112910-BW-002*
Sample Date:		*9/12/2011*	*11/14/1996*	*11/14/1996*	*12/3/2010*	*5/13/2011*	*9/12/2011*	*11/29/2010*
				(other)				
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 UJ
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.001 U	-	-	0.005 U	0.005 U	0.001 U	0.005 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	0.005 U	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	-	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 UJ
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-	-
Styrene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.0005	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.0007	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	U	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.0044	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-	-	0.001 U	0.001 UJ	0.001 U	0.001 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	-	0.003 U	0.002 U	0.002 U	0.002 U	0.002 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	0.005 U	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	0.005 U	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	0.05 U	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	0.005 U	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	0.005 U	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	0.005 U	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	0.02 U	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	0.005 U	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	0.005 U	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	0.005 U	-	-	-	-
2-Chlorophenol	mg/L	-	-	0.005 U	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	0.005 U	-	-	-	-
2-Methylphenol	mg/L	-	-	0.005 U	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2-02*
Sample ID:		*GW-12636-091211-JY-005*	*MW-2*	*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-091211-JY-003*	*GW-12636-112910-BW-002*
Sample Date:		*9/12/2011*	*11/14/1996*	*11/14/1996*	*12/3/2010*	*5/13/2011*	*9/12/2011*	*11/29/2010*
				(other)				
Parameters:	*Units*							
2-Nitroaniline	mg/L	-	-	0.02 U	-	-	-	-
2-Nitrophenol	mg/L	-	0.0018	0.005 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	0.02 U	-	-	-	-
3-Nitroaniline	mg/L	-	-	0.02 U	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	0.02 U	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	0.005 U	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	0.005 U	-	-	-	-
4-Chloroaniline	mg/L	-	-	0.02 U	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	0.005 U	-	-	-	-
4-Methylphenol	mg/L	-	-	0.005 U	-	-	-	-
4-Nitroaniline	mg/L	-	-	0.02 U	-	-	-	-
4-Nitrophenol	mg/L	-	-	0.02 U	-	-	-	-
Acenaphthene	mg/L	-	0.00016	0.005 U	-	-	-	-
Acenaphthylene	mg/L	-	-	0.005 U	-	-	-	-
Anthracene	mg/L	-	-	0.005 U	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	0.005 U	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	0.005 U	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	0.005 U	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	0.005 U	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	0.005 U	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	0.005 U	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	0.005 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	0.005 U	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	0.005 U	-	-	-	-
Carbazole	mg/L	-	-	0.005 U	-	-	-	-
Chrysene	mg/L	-	-	0.005 U	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	0.005 U	-	-	-	-
Dibenzofuran	mg/L	-	-	0.005 U	-	-	-	-
Diethyl phthalate	mg/L	-	-	0.005 U	-	-	-	-
Dimethyl phthalate	mg/L	-	-	0.005 U	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	0.0007	0.005 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	0.005 U	-	-	-	-
Fluoranthene	mg/L	-	-	0.005 U	-	-	-	-
Fluorene	mg/L	-	0.00014	0.005 U	-	-	-	-
Hexachlorobenzene	mg/L	-	-	0.005 U	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	0.005 U	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	0.005 U	-	-	-	-
Hexachloroethane	mg/L	-	-	0.005 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	0.005 U	-	-	-	-
Isophorone	mg/L	-	-	0.005 U	-	-	-	-
Naphthalene	mg/L	-	0.00017	0.005 U	-	-	-	-
Nitrobenzene	mg/L	-	-	0.005 U	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	0.005 U	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	0.005 U	-	-	-	-
Pentachlorophenol	mg/L	-	-	0.02 U	-	-	-	-
Phenanthrene	mg/L	-	0.0006	0.005 U	-	-	-	-
Phenol	mg/L	-	-	0.005 U	-	-	-	-
Pyrene	mg/L	-	-	0.005 U	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2-02*
Sample ID:		*GW-12636-091211-JY-005*	*MW-2*	*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-091211-JY-003*	*GW-12636-112910-BW-002*
Sample Date:		*9/12/2011*	*11/14/1996*	*11/14/1996 (other)*	*12/3/2010*	*5/13/2011*	*9/12/2011*	*11/29/2010*
Parameters:	*Units*							
Metals								
Aluminum	mg/L	0.32 [bu]	-	-	0.508 [bu]	0.213 [bu]	0.036 J	0.2 U
Aluminum (dissolved)	mg/L	-	-	-	-	-	0.05 U	-
Antimony	mg/L	0.002 U	-	-	0.002 U	0.002 U	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	-	-	-	0.002 U	-
Arsenic	mg/L	0.005 U	U	-	0.0279 [bu]	0.0046 J	0.01	0.005 U
Arsenic (dissolved)	mg/L	-	-	0.005 U	-	-	0.0075	-
Barium	mg/L	0.045 J	0.54	-	0.279	0.0515 J	0.22	0.126
Barium (dissolved)	mg/L	-	-	0.2 U	-	-	0.23	-
Beryllium	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	0.001 U	-
Cadmium	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	0.0005 U	-	-	0.001 U	-
Chromium	mg/L	0.005 U	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-	0.05 U	-	-	0.005 U	-
Cobalt	mg/L	0.0029 J	-	-	0.0056 J	0.0024 J	0.0023 J	0.007 U
Cobalt (dissolved)	mg/L	-	-	-	-	-	0.0059 J	-
Copper	mg/L	0.004	U	-	0.0041	0.0026 U	0.00044 J	0.002 U
Copper (dissolved)	mg/L	-	-	0.025 U	-	-	0.00056 J	-
Iron	mg/L	1.2 [bu]	-	-	24.8 [bu]	8.27 [bu]	16 [bu]	0.1 U
Iron (dissolved)	mg/L	-	-	-	-	-	14 [bu]	-
Lead	mg/L	0.0033	U	-	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-	0.003 U	-	-	0.003 U	-
Manganese	mg/L	0.4 [bu]	-	-	2.12 [bu]	0.541 [bu]	2.5 [bu]	0.576 [bu]
Manganese (dissolved)	mg/L	-	-	-	-	-	2.7 [bu]	-
Mercury	mg/L	0.0002 U	-	-	0.0002 UJ	0.0002 U	0.0002 U	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	0.0002 U	-	-	0.0002 U	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.02 U	-	-	0.02 U	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	-	-	-	-	0.02 U	-
Selenium	mg/L	0.005 U	U	-	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	0.0095 [t]	-	-	0.005 U	-
Silver	mg/L	0.0002 U	-	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	0.0005 U	-	-	0.0002 U	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	0.001 U	-
Vanadium	mg/L	0.004 U	-	-	0.0014 J	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-	-	-	-	0.004 U	-
Zinc	mg/L	0.042	U	-	0.043 J	0.0351 U	0.0082 J	0.02 U
Zinc (dissolved)	mg/L	-	-	0.02 U	-	-	0.02 U	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-1*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2*	*MW-2-02*
Sample ID:		*GW-12636-091211-JY-005*	*MW-2*	*W-8692-111496-SF-011*	*GW-12636-120310-BW-014*	*GW-12636-051311-SSH-113*	*GW-12636-091211-JY-003*	*GW-12636-112910-BW-002*
Sample Date:		*9/12/2011*	*11/14/1996*	*11/14/1996*	*12/3/2010*	*5/13/2011*	*9/12/2011*	*11/29/2010*
				(other)				
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.0050 U	-	-	0.010 U	0.010 U	0.0050 U	0.010 U
Cyanide (total)	mg/L	0.0050 U	-	-	-	-	0.0050 U	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-3-02*	*MW-4-02*	*MW-4-02*	*MW-4-02*	*MW-15-10*	*MW-15-10*
Sample ID:		*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*	*GW-12636-051111-SSH-101*	*GW-12636-091311-JY-009*	*GW-12636-120210-BW-004*	*MW-15-10*
Sample Date:		*12/2/2010*	*11/29/2010*	*5/11/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*
							(other)
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	0.001 U
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	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	-	-	-	-	-	0.001 U
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.025 U	0.025 U	0.025 U	0.01 U	0.025 U	0.005 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.01 U	0.05 U	0.005 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	0.005 U X
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	0.001 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.05 U	0.05 U	0.01 U	0.05 U	0.005 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.01 U	0.0025 J	0.02 U
Acrylonitrile	mg/L	-	-	-	-	-	0.005 U Z
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.00079 J	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	0.001 U

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-3-02*	*MW-4-02*	*MW-4-02*	*MW-4-02*	*MW-15-10*	*MW-15-10*
Sample ID:		*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*	*GW-12636-051111-SSH-101*	*GW-12636-091311-JY-009*	*GW-12636-120210-BW-004*	*MW-15-10*
Sample Date:		*12/2/2010*	*11/29/2010*	*5/11/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*
							(other)
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.005 U 5
Diisopropyl ether	mg/L	-	-	-	-	-	0.005 U
Ethyl ether	mg/L	-	-	-	-	-	0.005 U
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	0.005 U
Iodomethane	mg/L	-	-	-	-	-	0.001 U
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.005 U	0.001 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	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Methylene chloride	mg/L	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 UJ	0.005 U
Naphthalene	mg/L	-	-	-	-	-	0.005 U X
N-Butylbenzene	mg/L	-	-	-	-	-	0.001 U
N-Propylbenzene	mg/L	-	-	-	-	-	0.001 U
o-Xylene	mg/L	-	-	-	-	-	0.001 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	0.005 U
tert-Butyl alcohol	mg/L	-	-	-	-	-	0.05 U
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	0.005 U
tert-Butylbenzene	mg/L	-	-	-	-	-	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	0.005 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	0.005 U Z
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	-
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-3-02*	*MW-4-02*	*MW-4-02*	*MW-4-02*	*MW-15-10*	*MW-15-10*
Sample ID:		*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*	*GW-12636-051111-SSH-101*	*GW-12636-091311-JY-009*	*GW-12636-120210-BW-004*	*MW-15-10*
Sample Date:		*12/2/2010*	*11/29/2010*	*5/11/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*
							(other)
Parameters:	*Units*						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-3-02*	*MW-4-02*	*MW-4-02*	*MW-4-02*	*MW-15-10*	*MW-15-10*
Sample ID:		*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*	*GW-12636-051111-SSH-101*	*GW-12636-091311-JY-009*	*GW-12636-120210-BW-004*	*MW-15-10*
Sample Date:		*12/2/2010*	*11/29/2010*	*5/11/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*
							(other)
Parameters:	***Units***						
Metals							
Aluminum	mg/L	0.2 U	0.157 J[ba]	0.101 J[ba]	0.05 U	3.19[ba]	-
Aluminum (dissolved)	mg/L	-	-	-	-	0.2 U	-
Antimony	mg/L	0.002 U	0.00035 J	0.002 U	0.002 U	0.00022 J	0.001 U
Antimony (dissolved)	mg/L	-	-	-	-	0.002 U	-
Arsenic	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0192[ba]	0.017[ba]
Arsenic (dissolved)	mg/L	-	-	-	-	0.0193[ba]	-
Barium	mg/L	0.0956 J	0.119	0.105	0.11	0.132	0.12
Barium (dissolved)	mg/L	-	-	-	-	0.119	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	0.001 U	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 U
Cadmium (dissolved)	mg/L	-	-	-	-	0.001 U	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0049 J	0.004
Chromium Total (dissolved)	mg/L	-	-	-	-	0.005 U	-
Cobalt	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.0019 J	0.015 U
Cobalt (dissolved)	mg/L	-	-	-	-	0.007 U	-
Copper	mg/L	0.0032	0.0025 U	0.002 U	0.002 U	0.0033	0.0024
Copper (dissolved)	mg/L	-	-	-	-	0.002 U	-
Iron	mg/L	0.0825 J	1.41[ba]	0.101	0.1 U	4.29[ba]	3.1[ba]
Iron (dissolved)	mg/L	-	-	-	-	0.259	-
Lead	mg/L	0.003 U	0.0063[ba]	0.003 U	0.003 U	0.003 U	0.0012
Lead (dissolved)	mg/L	-	-	-	-	0.003 U	-
Manganese	mg/L	1.95[ba]	0.426[ba]	0.0418	0.023 J	0.153[ba]	0.14[ba]
Manganese (dissolved)	mg/L	-	-	-	-	0.103[ba]	-
Mercury	mg/L	0.0002 UJ	0.0002 UJ	0.0002 U	0.0002 U	0.0002 UJ	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	0.0002 U	-
Molybdenum	mg/L	-	-	-	-	-	0.025 U
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.0061 J	0.02 U	0.02 U	0.02 U	0.0052 J	0.004
Nickel (dissolved)	mg/L	-	-	-	-	0.02 U	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U
Selenium (dissolved)	mg/L	-	-	-	-	0.005 U	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	0.0002 U	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.0015 U	0.001 U	0.002 U
Thallium (dissolved)	mg/L	-	-	-	-	0.001 U	-
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.008[a]	0.0055[a]
Vanadium (dissolved)	mg/L	-	-	-	-	0.004 U	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U
Zinc (dissolved)	mg/L	-	-	-	-	0.02 U	-
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-3-02*	*MW-4-02*	*MW-4-02*	*MW-4-02*	*MW-15-10*	*MW-15-10*
Sample ID:		*GW-12636-120210-BW-007*	*GW-12636-112910-BW-001*	*GW-12636-051111-SSH-101*	*GW-12636-091311-JY-009*	*GW-12636-120210-BW-004*	*MW-15-10*
Sample Date:		*12/2/2010*	*11/29/2010*	*5/11/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*
							(other)
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.010 U	0.0050 U	0.010 U	-
Cyanide (total)	mg/L	-	-	-	0.0050 U	-	-
pH	s.u.	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-15-10*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*
Sample ID:		*GW-12636-051411-SSH-118*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-120210-BW-005*	*MW-16-10*	*GW-12636-051411-SSH-119*
Sample Date:		*5/14/2011*	*9/13/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*	*5/14/2011*
				(Duplicate)		*(other)*	
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	0.001 U	-
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	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	-	-	-	-	0.001 U	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	0.001 U	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.00072 J	0.01 U	0.01 U	0.0012 J	0.005 U	0.00066 J
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	0.05 U	0.01 U	0.01 U	0.05 U	0.005 U	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	0.005 U X	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	0.001 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U	0.01 U	0.05 U	0.005 U	0.05 U
Acetone	mg/L	0.025 U	0.01 U	0.01 U	0.006 J	0.02 U	0.025 U
Acrylonitrile	mg/L	-	-	-	-	0.005 U Z	-
Benzene	mg/L	0.00024 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	0.001 U	-
Bromodichloromethane	mg/L	0.0022	0.001 U	0.001 U	0.001 U	0.001 U	0.0022
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.00015 J	0.00014 J	0.005 U	0.001 U	0.00029 J
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	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	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.006	0.0012	0.00085 J	0.00055 J	0.001 U	0.01
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001	0.005 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	0.001 U	-
Dibromochloromethane	mg/L	0.0012	0.001 U	0.001 U	0.001 U	0.001 U	0.00097 J
Dibromomethane	mg/L	-	-	-	-	0.001 U	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-15-10*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*
Sample ID:		*GW-12636-051411-SSH-118*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-120210-BW-005*	*MW-16-10*	*GW-12636-051411-SSH-119*
Sample Date:		*5/14/2011*	*9/13/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*	*5/14/2011*
				(Duplicate)		*(other)*	
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.005 U 5	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	0.005 U	-
Ethyl ether	mg/L	-	-	-	-	0.005 U	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	0.005 U	-
Iodomethane	mg/L	-	-	-	-	0.001 U	-
Isopropyl benzene	mg/L	0.005 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 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	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Naphthalene	mg/L	-	-	-	-	0.005 U X	-
N-Butylbenzene	mg/L	-	-	-	-	0.001 U	-
N-Propylbenzene	mg/L	-	-	-	-	0.001 U	-
o-Xylene	mg/L	-	-	-	-	0.001 U	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	0.005 U	-
tert-Butyl alcohol	mg/L	-	-	-	-	0.05 U	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	0.005 U	-
tert-Butylbenzene	mg/L	-	-	-	-	0.001 U	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	0.005 U	-
Toluene	mg/L	0.00018 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	0.005 U Z	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	-	0.002 U
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-15-10*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*
Sample ID:		*GW-12636-051411-SSH-118*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-120210-BW-005*	*MW-16-10*	*GW-12636-051411-SSH-119*
Sample Date:		*5/14/2011*	*9/13/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*	*5/14/2011*
				(Duplicate)		*(other)*	
Parameters:	*Units*						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-15-10*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*
Sample ID:		*GW-12636-051411-SSH-118*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-120210-BW-005*	*MW-16-10*	*GW-12636-051411-SSH-119*
Sample Date:		*5/14/2011*	*9/13/2011*	*9/13/2011* *(Duplicate)*	*12/2/2010*	*12/2/2010* *(other)*	*5/14/2011*
Parameters:	*Units*						
Metals							
Aluminum	mg/L	3.74 [bd]	0.11 [bd]	0.08 [bd]	27.6 [bd]	-	0.397 [bd]
Aluminum (dissolved)	mg/L	-	0.029 J	0.02 J	0.2 U	-	-
Antimony	mg/L	0.00039 J	0.002 U	0.002 U	0.00078 J	-	0.00034 J
Antimony (dissolved)	mg/L	-	0.002 U	0.002 U	0.00035 J	0.001 U	-
Arsenic	mg/L	0.0044 J	0.0061	0.0054	0.0304 [bd]	-	0.0055
Arsenic (dissolved)	mg/L	-	0.0087	0.0084	0.0086	0.0061	-
Barium	mg/L	0.118	0.16	0.16	0.33	-	0.182
Barium (dissolved)	mg/L	-	0.16	0.16	0.159	0.14	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U
Beryllium (dissolved)	mg/L	-	0.001 U	0.001 U	0.001 U	0.001 U	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U
Cadmium (dissolved)	mg/L	-	0.001 U	0.001 U	0.001 U	0.0002 U	-
Chromium	mg/L	0.007	0.005 U	0.005 U	0.0535 [r]	-	0.005 U
Chromium Total (dissolved)	mg/L	-	0.005 U	0.005 U	0.005 U	0.001	-
Cobalt	mg/L	0.0025 J	0.007 U	0.007 U	0.0209	-	0.007 U
Cobalt (dissolved)	mg/L	-	0.007 U	0.007 U	0.007 U	0.015 U	-
Copper	mg/L	0.0055	0.002 U	0.002 U	0.0351	-	0.002 U
Copper (dissolved)	mg/L	-	0.002 U	0.002 U	0.002 U	0.001 U	-
Iron	mg/L	4.47 [bd]	1.9 [bd]	1.9 [bd]	50.1 [bd]	-	0.657 [bd]
Iron (dissolved)	mg/L	-	1.8 [bd]	1.7 [bd]	0.188	0.02 U	-
Lead	mg/L	0.0024 J	0.003 U	0.003 U	0.0205 [bd]	-	0.003 U
Lead (dissolved)	mg/L	-	0.003 U	0.003 U	0.003 U	0.001 U	-
Manganese	mg/L	0.133 [bd]	0.11 J [bd]	0.11 J [bd]	1.3 [bd]	-	0.112 [bd]
Manganese (dissolved)	mg/L	-	0.11 [bd]	0.11 [bd]	0.0809 [bd]	0.063 [bd]	-
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	-	0.0002 U
Mercury (dissolved)	mg/L	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	0.025 U	-
Nickel	mg/L	0.0051 J	0.02 U	0.02 U	0.0473	-	0.02 U
Nickel (dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.002 U	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	-	0.005 U
Selenium (dissolved)	mg/L	-	0.005 U	0.005 U	0.005 U	0.001 U	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	-	0.0002 U
Silver (dissolved)	mg/L	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	-	0.001 U
Thallium (dissolved)	mg/L	-	0.001 U	0.001 U	0.001 U	0.002 U	-
Vanadium	mg/L	0.0094 [a]	0.004 U	0.004 U	0.0705 [bd]	-	0.004 U
Vanadium (dissolved)	mg/L	-	0.004 U	0.004 U	0.004 U	0.002 U	-
Zinc	mg/L	0.0329 U	0.02 U	0.02 U	0.121 J	-	0.02 U
Zinc (dissolved)	mg/L	-	0.02 U	0.02 U	0.02 U	0.01 U	-
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-15-10*	*MW-15-10*	*MW-15-10*	*MW-16-10*	*MW-16-10*	*MW-16-10*
Sample ID:		*GW-12636-051411-SSH-118*	*GW-12636-091311-JY-011*	*GW-12636-091311-JY-013*	*GW-12636-120210-BW-005*	*MW-16-10*	*GW-12636-051411-SSH-119*
Sample Date:		*5/14/2011*	*9/13/2011*	*9/13/2011*	*12/2/2010*	*12/2/2010*	*5/14/2011*
				(Duplicate)		*(other)*	
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.0050 U	0.0050 U	0.010 U	-	0.010 U
Cyanide (total)	mg/L	-	0.0050 U	0.0050 U	-	-	-
pH	s.u.	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-16-10*	*MW-16-10*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*GW-12636-051411-SSH-120*	*GW-12636-091411-JY-014*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*5/14/2011*	*9/14/2011*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
		(Duplicate)					
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	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	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	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	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 UJ	-	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	-	-	-
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	0.00066 J	0.01 U	-	0.01 U	0.01 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	0.01 U	-	-	-
2-Hexanone	mg/L	0.05 U	0.01 U	-	0.01 U	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U	-	0.01 U	0.01 U	0.01 U
Acetone	mg/L	0.025 U	0.0038 J	-	0.01 U	0.01 U	0.01 U
Acrylonitrile	mg/L	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.0022	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.00029 J	0.00074 J	-	0.001 U	0.001 U	0.001 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 UJ	0.001 U	0.002 U	0.002 U	0.002 U
Chloroform (Trichloromethane)	mg/L	0.0099	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.0005 U	0.0005 U	0.0005 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	0.001 U	-	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.00094 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-16-10*	*MW-16-10*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*GW-12636-051411-SSH-120*	*GW-12636-091411-JY-014*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*5/14/2011*	*9/14/2011*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
		(Duplicate)					
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.005 U	0.001 U	-	0.001 U	0.001 U	0.001 U
m&p-Xylenes	mg/L	-	-	0.003 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	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
Naphthalene	mg/L	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	0.003 U	-	-	-
Styrene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.0005 U	0.0005 U	0.0005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	-	0.001 U	0.001 U	0.001 U
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-16-10*	*MW-16-10*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*GW-12636-051411-SSH-120*	*GW-12636-091411-JY-014*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*5/14/2011*	*9/14/2011*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
		(Duplicate)					
Parameters:	*Units*						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-16-10*	*MW-16-10*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*GW-12636-051411-SSH-120*	*GW-12636-091411-JY-014*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*5/14/2011*	*9/14/2011*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
		(Duplicate)					
Parameters:	*Units*						
Metals							
Aluminum	mg/L	0.314 [bu]	0.13 [bu]	-	-	-	-
Aluminum (dissolved)	mg/L	-	0.05 U	-	-	-	-
Antimony	mg/L	0.00023 J	0.002 U	-	-	-	-
Antimony (dissolved)	mg/L	-	0.002 U	-	-	-	-
Arsenic	mg/L	0.0059	0.0072	0.04 [bu]	-	-	-
Arsenic (dissolved)	mg/L	-	0.0079	-	-	-	-
Barium	mg/L	0.205	0.23	0.55	-	-	-
Barium (dissolved)	mg/L	-	0.23	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	-	-	-	-
Beryllium (dissolved)	mg/L	-	0.001 U	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.0005 U	-	-	-
Cadmium (dissolved)	mg/L	-	0.001 U	-	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.05 U	-	-	-
Chromium Total (dissolved)	mg/L	-	0.005 U	-	-	-	-
Cobalt	mg/L	0.007 U	0.007 U	-	-	-	-
Cobalt (dissolved)	mg/L	-	0.007 U	-	-	-	-
Copper	mg/L	0.002 U	0.002 U	0.025 U	-	-	-
Copper (dissolved)	mg/L	-	0.002 U	-	-	-	-
Iron	mg/L	0.551 [bu]	0.31 [bu]	-	-	-	-
Iron (dissolved)	mg/L	-	0.3	-	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	-	-	-
Lead (dissolved)	mg/L	-	0.003 U	-	0.003 U	0.003 U	0.003 U
Manganese	mg/L	0.11 [bu]	0.13 [bu]	-	-	-	-
Manganese (dissolved)	mg/L	-	0.13 [bu]	-	-	-	-
Mercury	mg/L	0.0002 U	0.00019 J [f]	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	-	0.0002 U	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	0.02 U	0.02 U	-	-	-	-
Nickel (dissolved)	mg/L	-	0.02 U	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	-	-	-
Selenium (dissolved)	mg/L	-	0.005 U	-	-	-	-
Silver	mg/L	0.0002 U	0.00036 U	0.0005 U	-	-	-
Silver (dissolved)	mg/L	-	0.0002 U	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	-	-	-	-
Thallium (dissolved)	mg/L	-	0.001 U	-	-	-	-
Vanadium	mg/L	0.004 U	0.004 U	-	-	-	-
Vanadium (dissolved)	mg/L	-	0.004 U	-	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	-	-	-
Zinc (dissolved)	mg/L	-	0.02 U	-	-	-	-
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*MW-16-10*	*MW-16-10*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*GW-12636-051411-SSH-120*	*GW-12636-091411-JY-014*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*5/14/2011*	*9/14/2011*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
		(Duplicate)					
Parameters:	*Units*						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.0050 U	-	-	-	-
Cyanide (total)	mg/L	-	0.0050 U	-	-	-	-
pH	s.u.	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*GW-12636-091311-JY-010*	*PFW-2*	*PFW-2D*	*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*
Sample Date:		*12/2/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*4/1/1997*	*12/3/2010*	*12/3/2010*
						(Duplicate)		*(Duplicate)*
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	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	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 UJ	0.001 U	-	-	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 UJ	0.001 U	0.001 U	-	-	0.001 UJ	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	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	0.025 U	0.025 U	0.01 U	-	-	0.025 U	0.025 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	0.01 U	0.01 U	-	-
2-Hexanone	mg/L	0.05 U	0.05 U	0.01 U	-	-	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.05 U	0.01 U	-	-	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.01 U	-	-	0.025 U	0.025 U
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ
Carbon disulfide	mg/L	0.005 U	0.005 UJ	0.005 U	-	-	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*GW-12636-091311-JY-010*	*PFW-2*	*PFW-2D*	*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*
Sample Date:		*12/2/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*4/1/1997*	*12/3/2010*	*12/3/2010*
						(Duplicate)		*(Duplicate)*
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.005 U	0.005 U	0.001 U	-	-	0.005 U	0.005 U
m&p-Xylenes	mg/L	-	-	-	0.003 U	0.003 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	0.005 U	0.005 U	0.005 U	-	-	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	0.003 U	0.003 U	-	-
Styrene	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	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	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	0.002 U	-	-	0.002 U	0.002 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*GW-12636-091311-JY-010*	*PFW-2*	*PFW-2D*	*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*
Sample Date:		*12/2/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*4/1/1997* *(Duplicate)*	*12/3/2010*	*12/3/2010* *(Duplicate)*
Parameters:	*Units*							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	0.005 U	-	-	-
Acenaphthylene	mg/L	-	-	-	0.005 U	-	-	-
Anthracene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	0.005 U	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	0.005 U	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	0.005 U	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	0.005 U	-	-	-
Fluorene	mg/L	-	-	-	0.005 U	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	0.005 U	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	0.005 U	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	0.005 U	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	0.005 U	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*GW-12636-091311-JY-010*	*PFW-2*	*PFW-2D*	*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*
Sample Date:		*12/2/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*4/1/1997 (Duplicate)*	*12/3/2010*	*12/3/2010 (Duplicate)*
Parameters:	***Units***							
Metals								
Aluminum	mg/L	0.2 U	0.2 U	0.05 U	-	-	0.2 U	0.2 U
Aluminum (dissolved)	mg/L	-	-	0.05 U	-	-	-	-
Antimony	mg/L	0.00029 J	0.002 U	0.002 U	-	-	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	0.002 U	-	-	-	-
Arsenic	mg/L	0.489 bu	0.0596 bu	0.062 bu	0.005 U	0.005 U	0.0032 J	0.005 U
Arsenic (dissolved)	mg/L	-	-	0.044 bu	-	-	-	-
Barium	mg/L	0.201	0.154	0.14	0.61	0.61	0.0585 J	0.0574 J
Barium (dissolved)	mg/L	-	-	0.13	-	-	-	-
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	0.001 U	-	-	-	-
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.0005 U	0.0005 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	0.001 U	-	-	-	-
Chromium	mg/L	0.005 U	0.005 U	0.005 U	0.05 U	0.05 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-	0.005 U	-	-	-	-
Cobalt	mg/L	0.007 U	0.007 U	0.007 U	-	-	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	-	0.007 U	-	-	-	-
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.025 U	0.025 U	0.002 U	0.002 U
Copper (dissolved)	mg/L	-	-	0.002 U	-	-	-	-
Iron	mg/L	17 bu	1.83 bu	2 bu	-	-	0.701 bu	0.684 bu
Iron (dissolved)	mg/L	-	-	1.4 bu	-	-	-	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-	0.003 U	-	-	-	-
Manganese	mg/L	0.06 bu	0.0334	0.026 J	-	-	0.963 bu	0.91 bu
Manganese (dissolved)	mg/L	-	-	0.025	-	-	-	-
Mercury	mg/L	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	0.0002 U	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.02 U	0.02 U	0.02 U	-	-	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	-	0.02 U	-	-	-	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	0.005 U	-	-	-	-
Silver	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0005 U	0.0005 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	0.0002 U	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.001 U	0.001 U	-	-	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	0.001 U	-	-	-	-
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	-	-	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-	0.004 U	-	-	-	-
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-	0.02 U	-	-	-	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-1*	*PFW-1*	*PFW-1*	*PFW-2*	*PFW-2*	*PFW-2*	*PFW-2*
Sample ID:		*GW-12636-120210-BW-006*	*GW-12636-051311-SSH-116*	*GW-12636-091311-JY-010*	*PFW-2*	*PFW-2D*	*GW-12636-120310-BW-012*	*GW-12636-120310-BW-013*
Sample Date:		*12/2/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*4/1/1997*	*12/3/2010*	*12/3/2010*
						(Duplicate)		*(Duplicate)*
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.010 U	0.0050 U	-	-	0.010 U	0.010 U
Cyanide (total)	mg/L	-	-	0.0050 U	-	-	-	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:		*GW-12636-051311-SSH-111*	*GW-12636-091211-JY-004*	*PFW-4*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-091211-JY-002*	*PFW-9*
Sample Date:		*5/13/2011*	*9/12/2011*	*4/1/1997*	*5/11/2011*	*5/11/2011*	*9/12/2011*	*4/1/1997*
						(Duplicate)		
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	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	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 UJ	0.001 U	-	0.005 U	0.005 U	0.001 U	-
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	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	0.025 U	0.01 U	-	0.025 U	0.025 U	0.0025 J	-
2-Chloroethyl vinyl ether	mg/L	-	-	0.01 U	-	-	-	0.01 U
2-Hexanone	mg/L	0.05 U	0.01 U	-	0.05 U	0.05 U	0.01 U	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U	-	0.00087 J	0.0009 J	0.0013 J	-
Acetone	mg/L	0.025 U	0.01 U	-	0.025 U	0.025 U	0.012	-
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.005 UJ	0.005 U	-	0.005 U	0.005 U	0.005 U	-
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:		*GW-12636-051311-SSH-111*	*GW-12636-091211-JY-004*	*PFW-4*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-091211-JY-002*	*PFW-9*
Sample Date:		*5/13/2011*	*9/12/2011*	*4/1/1997*	*5/11/2011*	*5/11/2011 (Duplicate)*	*9/12/2011*	*4/1/1997*
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	0.005 U	0.001 U	-	0.005 U	0.005 U	0.001 U	-
m&p-Xylenes	mg/L	-	-	0.003 U	-	-	-	0.003 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	0.005 U	0.005 U	-	0.005 U	0.005 U	0.005 U	-
Methylene chloride	mg/L	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	-	-	0.003 U	-	-	-	0.003 U
Styrene	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	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	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U	-	0.002 U	0.002 U	0.002 U	-
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:		*GW-12636-051311-SSH-111*	*GW-12636-091211-JY-004*	*PFW-4*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-091211-JY-002*	*PFW-9*
Sample Date:		*5/13/2011*	*9/12/2011*	*4/1/1997*	*5/11/2011*	*5/11/2011*	*9/12/2011*	*4/1/1997*
						(Duplicate)		
Parameters:	*Units*							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:		*GW-12636-051311-SSH-111*	*GW-12636-091211-JY-004*	*PFW-4*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-091211-JY-002*	*PFW-9*
Sample Date:		*5/13/2011*	*9/12/2011*	*4/1/1997*	*5/11/2011*	*5/11/2011 (Duplicate)*	*9/12/2011*	*4/1/1997*
Parameters:	***Units***							
Metals								
Aluminum	mg/L	0.2 U	0.022 J	-	3.76 [bd]	3.87 [bd]	0.4 [bd]	-
Aluminum (dissolved)	mg/L	-	-	-	-	-	0.073 [bd]	-
Antimony	mg/L	0.002 U	0.002 U	-	0.0022	0.0021	0.002 U	-
Antimony (dissolved)	mg/L	-	-	-	-	-	0.002 U	-
Arsenic	mg/L	0.005 U	0.005 U	0.005 U	0.0034 J	0.0035 J	0.0044 J	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	0.0034 J	-
Barium	mg/L	0.0473 J	0.056 J	1.6	0.0318 J	0.0321 J	0.012 J	0.97
Barium (dissolved)	mg/L	-	-	-	-	-	0.0084 J	-
Beryllium	mg/L	0.001 U	0.001 U	-	0.001 U	0.001 U	0.001 U	-
Beryllium (dissolved)	mg/L	-	-	-	-	-	0.001 U	-
Cadmium	mg/L	0.001 U	0.001 U	0.0005 U	0.00066 J	0.001 U	0.001 U	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	0.001 U	-
Chromium	mg/L	0.005 U	0.005 U	0.05 U	0.0163 [1]	0.0164 [1]	0.005 U	0.05 U
Chromium Total (dissolved)	mg/L	-	-	-	-	-	0.005 U	-
Cobalt	mg/L	0.007 U	0.007 U	-	0.0022 J	0.0024 J	0.007 U	-
Cobalt (dissolved)	mg/L	-	-	-	-	-	0.007 U	-
Copper	mg/L	0.002 U	0.0003 J	0.025 U	0.0267	0.0269	0.028	0.025 U
Copper (dissolved)	mg/L	-	-	-	-	-	0.0028	-
Iron	mg/L	0.541 [bd]	0.97 [bd]	-	5.62 [bd]	5.71 [bd]	0.66 [bd]	-
Iron (dissolved)	mg/L	-	-	-	-	-	0.1 U	-
Lead	mg/L	0.003 U	0.003 U	0.003 U	0.0356 [bd]	0.0358 [bd]	0.013 [bd]	0.009 [bd]
Lead (dissolved)	mg/L	-	-	-	-	-	0.003 U	-
Manganese	mg/L	0.581 [bd]	1.4 [bd]	-	0.0962 [bd]	0.0982 [bd]	0.031	-
Manganese (dissolved)	mg/L	-	-	-	-	-	0.017	-
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	-	0.0002 U	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	0.02 U	0.02 U	-	0.0085 J	0.0086 J	0.02 U	-
Nickel (dissolved)	mg/L	-	-	-	-	-	0.02 U	-
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	0.005 U	-
Silver	mg/L	0.0002 U	0.0002 U	0.0005 U	0.0002 U	0.0002 U	0.0002 U	0.0005 U
Silver (dissolved)	mg/L	-	-	-	-	-	0.0002 U	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.001 U	0.0023 U	-	0.001 U	0.001 U	0.001 U	-
Thallium (dissolved)	mg/L	-	-	-	-	-	0.001 U	-
Vanadium	mg/L	0.004 U	0.004 U	-	0.0108 [a]	0.0111 [a]	0.0025 J	-
Vanadium (dissolved)	mg/L	-	-	-	-	-	0.0014 J	-
Zinc	mg/L	0.02 U	0.02 U	0.02	0.186	0.2	0.025	0.02 U
Zinc (dissolved)	mg/L	-	-	-	-	-	0.02 U	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-2*	*PFW-2*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-4*	*PFW-9*
Sample ID:		*GW-12636-051311-SSH-111*	*GW-12636-091211-JY-004*	*PFW-4*	*GW-12636-051111-SSH-102*	*GW-12636-051111-SSH-103*	*GW-12636-091211-JY-002*	*PFW-9*
Sample Date:		*5/13/2011*	*9/12/2011*	*4/1/1997*	*5/11/2011*	*5/11/2011*	*9/12/2011*	*4/1/1997*
						(Duplicate)		
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	0.010 U	0.0050 U	-	0.010 U	0.010 U	0.0050 U	-
Cyanide (total)	mg/L	-	0.0050 U	-	-	-	0.0058 J	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*
Sample ID:		*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*GW-12636-091211-JY-006*
Sample Date:		*6/7/2000*	*10/17/2002*	*12/2/2010*	*12/2/2010* *(Duplicate)*	*5/13/2011*	*9/12/2011*
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	0.005 U	0.005 U	0.005 UJ	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.001 UJ	0.001 UJ	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	0.025 U	0.025 U	0.025 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	0.05 U	0.05 U	0.05 U	0.01 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	0.05 U	0.05 U	0.05 U	0.01 U
Acetone	mg/L	-	-	0.025 U	0.025 U	0.025 U	0.01 U
Acrylonitrile	mg/L	-	-	-	-	-	-
Benzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-
Bromodichloromethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	-	-	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ
Carbon disulfide	mg/L	-	-	0.005 U	0.005 U	0.005 UJ	0.005 U
Carbon tetrachloride	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-
Chloroethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	-	-	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
Cyclohexane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*
Sample ID:		*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*GW-12636-091211-JY-006*
Sample Date:		*6/7/2000*	*10/17/2002*	*12/2/2010*	*12/2/2010 (Duplicate)*	*5/13/2011*	*9/12/2011*
Parameters:	***Units***						
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-
Ethylbenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	0.005 U	0.005 U	0.005 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
Methyl cyclohexane	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	-	-	0.005 U	0.005 U	0.005 UJ	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-
o-Xylene	mg/L	-	-	-	-	-	-
Styrene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-
Toluene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	-	-	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
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-
Trichloroethene	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	-	0.001 U	0.001 U	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	-	0.002 U	0.002 U	0.002 U	0.002 U
Semi-volatile Organic Compounds							
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*
Sample ID:		*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*GW-12636-091211-JY-006*
Sample Date:		*6/7/2000*	*10/17/2002*	*12/2/2010*	*12/2/2010*	*5/13/2011*	*9/12/2011*
					(Duplicate)		
Parameters:	*Units*						
2-Nitroaniline	mg/L	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*	*PFW-9*
Sample ID:		*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*GW-12636-120210-BW-008*	*GW-12636-120210-BW-009*	*GW-12636-051311-SSH-112*	*GW-12636-091211-JY-006*
Sample Date:		*6/7/2000*	*10/17/2002*	*12/2/2010*	*12/2/2010 (Duplicate)*	*5/13/2011*	*9/12/2011*
Parameters:	*Units*						
Metals							
Aluminum	mg/L	-	-	1.3 J[bd]	0.524 J[bd]	0.2 U	0.05 U
Aluminum (dissolved)	mg/L	-	-	-	-	-	-
Antimony	mg/L	-	-	0.00036 J	0.00026 J	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-	-	-	-	-
Arsenic	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.0033 J
Arsenic (dissolved)	mg/L	-	-	-	-	-	-
Barium	mg/L	-	-	0.0367 J	0.0343 J	0.0193 J	0.05 J
Barium (dissolved)	mg/L	-	-	-	-	-	-
Beryllium	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-
Cadmium	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-
Chromium	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-
Cobalt	mg/L	-	-	0.007 U	0.007 U	0.007 U	0.002 J
Cobalt (dissolved)	mg/L	-	-	-	-	-	-
Copper	mg/L	-	-	0.0075 J	0.0035 J	0.002 U	0.0004 J
Copper (dissolved)	mg/L	-	-	-	-	-	-
Iron	mg/L	-	-	7.78 J[bd]	2.93 J[bd]	0.232	2[bd]
Iron (dissolved)	mg/L	-	-	-	-	-	-
Lead	mg/L	-	-	0.003 U	0.003 U	0.003 U	0.003 U
Lead (dissolved)	mg/L	0.003 U	0.003 U	-	-	-	-
Manganese	mg/L	-	-	0.0519 J[bd]	0.0208 J	0.008 J	0.41[bd]
Manganese (dissolved)	mg/L	-	-	-	-	-	-
Mercury	mg/L	-	-	0.0002 UJ	0.0002 UJ	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-
Nickel	mg/L	-	-	0.0034 J	0.02 U	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	-	-	-	-	-
Selenium	mg/L	-	-	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-
Silver	mg/L	-	-	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-
Thallium	mg/L	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-
Vanadium	mg/L	-	-	0.0015 J	0.004 U	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-	-	-	-	-
Zinc	mg/L	-	-	0.0546 J	0.0218 UJ	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-	-	-	-	-
Pesticides							

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		***PFW-9***	***PFW-9***	***PFW-9***	***PFW-9***	***PFW-9***	***PFW-9***
Sample ID:		***W-12636-060700-KMV-506***	***GW-12636-101702-DD-007***	***GW-12636-120210-BW-008***	***GW-12636-120210-BW-009***	***GW-12636-051311-SSH-112***	***GW-12636-091211-JY-006***
Sample Date:		***6/7/2000***	***10/17/2002***	***12/2/2010***	***12/2/2010 (Duplicate)***	***5/13/2011***	***9/12/2011***
Parameters:	***Units***						
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-
General Chemistry							
Conductance, specific	umhos/cm	-	-	-	-	-	-
Cyanide (amenable)	mg/L	-	-	0.010 U	0.010 U	0.010 U	0.0050 U
Cyanide (total)	mg/L	-	-	-	-	-	0.0050 U
pH	s.u.	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-11*	*PFW-11*
Sample ID:		*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*	*GW-12636-051311-SSH-114*	*GW-12636-091311-JY-008*	*PFW-11*	*GW-12636-120210-BW-010*
Sample Date:		*3/31/1997*	*10/17/2002*	*12/3/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*12/2/2010*
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	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	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	-	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	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	0.005 U	0.005 UJ	0.001 U	-	0.005 U
1,2,4-Trimethylbenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	0.001 UJ	0.001 U	0.001 U	-	0.001 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	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	-	-	0.025 U	0.025 U	0.01 U	-	0.025 U
2-Chloroethyl vinyl ether	mg/L	0.01 U	-	-	-	-	0.01 U	-
2-Hexanone	mg/L	-	-	0.05 U	0.05 U	0.01 U	-	0.05 U
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	-	-	0.05 U	0.05 U	0.01 U	-	0.05 U
Acetone	mg/L	-	-	0.0092 J	0.025 U	0.01 U	-	0.025 U
Acrylonitrile	mg/L	-	-	-	-	-	-	-
Benzene	mg/L	0.005 U	-	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Bromobenzene	mg/L	-	-	-	-	-	-	-
Bromodichloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	-	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Carbon disulfide	mg/L	-	-	0.005 U	0.005 UJ	0.005 U	-	0.005 U
Carbon tetrachloride	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-	-	-	-	-	-
Chloroethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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	0.001 U	0.001 U	-	0.001 U
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-11*	*PFW-11*
Sample ID:		*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*	*GW-12636-051311-SSH-114*	*GW-12636-091311-JY-008*	*PFW-11*	*GW-12636-120210-BW-010*
Sample Date:		*3/31/1997*	*10/17/2002*	*12/3/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*12/2/2010*
Parameters:	***Units***							
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
Diisopropyl ether	mg/L	-	-	-	-	-	-	-
Ethyl ether	mg/L	-	-	-	-	-	-	-
Ethylbenzene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Iodomethane	mg/L	-	-	-	-	-	-	-
Isopropyl benzene	mg/L	-	-	0.005 U	0.005 U	0.001 U	-	0.005 U
m&p-Xylenes	mg/L	0.003 U	-	-	-	-	0.003 U	-
Methyl acetate	mg/L	-	-	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
Methyl tert butyl ether (MTBE)	mg/L	-	-	0.005 U	0.005 U	0.005 U	-	0.005 U
Methylene chloride	mg/L	0.005 U	-	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	-	-	-	-	-	-	-
N-Butylbenzene	mg/L	-	-	-	-	-	-	-
N-Propylbenzene	mg/L	-	-	-	-	-	-	-
o-Xylene	mg/L	0.003 U	-	-	-	-	0.003 U	-
Styrene	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
tert-Amyl methyl ether	mg/L	-	-	-	-	-	-	-
tert-Butyl alcohol	mg/L	-	-	-	-	-	-	-
tert-Butyl ethyl ether	mg/L	-	-	-	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-	-	-	-	-	-
Toluene	mg/L	0.001 U	-	0.00062 J	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	-	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	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-	-	-	-	-	-
Trichloroethene	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	-	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
Vinyl chloride	mg/L	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes (total)	mg/L	-	-	0.002 U	0.002 U	0.002 U	-	0.002 U
Semi-volatile Organic Compounds								
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	-	-	-	-	-	-	-
2-Methylphenol	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-11*	*PFW-11*
Sample ID:		*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*	*GW-12636-051311-SSH-114*	*GW-12636-091311-JY-008*	*PFW-11*	*GW-12636-120210-BW-010*
Sample Date:		*3/31/1997*	*10/17/2002*	*12/3/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*12/2/2010*
Parameters:	***Units***							
2-Nitroaniline	mg/L	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-
3-Nitroaniline	mg/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-
4-Methylphenol	mg/L	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-
Acenaphthene	mg/L	-	-	-	-	-	-	-
Acenaphthylene	mg/L	-	-	-	-	-	-	-
Anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-	-	-	-	-	-
Carbazole	mg/L	-	-	-	-	-	-	-
Chrysene	mg/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	-	-	-	-	-	-	-
Hexachloroethane	mg/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-	-	-	-	-	-
Isophorone	mg/L	-	-	-	-	-	-	-
Naphthalene	mg/L	-	-	-	-	-	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-
Phenol	mg/L	-	-	-	-	-	-	-
Pyrene	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-11*	*PFW-11*
Sample ID:		*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*	*GW-12636-051311-SSH-114*	*GW-12636-091311-JY-008*	*PFW-11*	*GW-12636-120210-BW-010*
Sample Date:		*3/31/1997*	*10/17/2002*	*12/3/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*12/2/2010*
Parameters:	***Units***							
Metals								
Aluminum	mg/L	-	-	0.2 U	0.2 U	0.05 U	-	1.57 bd
Aluminum (dissolved)	mg/L	-	-	-	-	-	-	-
Antimony	mg/L	-	-	0.002 U	0.002 U	0.002 U	-	0.00046 J
Antimony (dissolved)	mg/L	-	-	-	-	-	-	-
Arsenic	mg/L	0.005 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	2.6 bd	-	0.0458 J	0.0465 J	0.045 J	1.1	0.0726 J
Barium (dissolved)	mg/L	-	0.0565	-	-	-	-	-
Beryllium	mg/L	-	-	0.001 U	0.001 U	0.001 U	-	0.001 U
Beryllium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	0.0005 U	-	0.001 U	0.001 U	0.001 U	0.0006	0.001 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	0.05 U	-	0.005 U	0.005 U	0.005 U	0.05 U	0.0053
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-
Cobalt	mg/L	-	-	0.007 U	0.007 U	0.007 U	-	0.0017 J
Cobalt (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	0.025 U	-	0.002 U	0.002 U	0.002 U	0.025 U	0.0135
Copper (dissolved)	mg/L	-	-	-	-	-	-	-
Iron	mg/L	-	-	0.1 U	0.1 U	0.1 U	-	2.73 bd
Iron (dissolved)	mg/L	-	-	-	-	-	-	-
Lead	mg/L	0.004	-	0.003 U	0.003 U	0.003 U	0.003 U	0.0125 bd
Lead (dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	-	-	0.16 bd	0.0719 bd	0.047	-	0.056 bd
Manganese (dissolved)	mg/L	-	-	-	-	-	-	-
Mercury	mg/L	0.0002 U	-	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Molybdenum	mg/L	-	-	-	-	-	-	-
Molybdenum (dissolved)	mg/L	-	-	-	-	-	-	-
Nickel	mg/L	-	-	0.0036 J	0.02 U	0.02 U	-	0.006 J
Nickel (dissolved)	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	0.005 U	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	0.0005 U	-	0.0002 U	0.0002 U	0.0002 U	0.0005 U	0.0002 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Sodium (dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	-	-	0.001 U	0.001 U	0.0015 U	-	0.001 U
Thallium (dissolved)	mg/L	-	-	-	-	-	-	-
Vanadium	mg/L	-	-	0.004 U	0.004 U	0.004 U	-	0.0032 J
Vanadium (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	0.05	-	0.02 U	0.02 U	0.02 U	0.02 U	0.0563 J
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-
Pesticides								

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-10*	*PFW-11*	*PFW-11*
Sample ID:		*PFW-10*	*GW-12636-101702-DD-006*	*GW-12636-120310-BW-018*	*GW-12636-051311-SSH-114*	*GW-12636-091311-JY-008*	*PFW-11*	*GW-12636-120210-BW-010*
Sample Date:		*3/31/1997*	*10/17/2002*	*12/3/2010*	*5/13/2011*	*9/13/2011*	*4/1/1997*	*12/2/2010*
Parameters:	***Units***							
Aroclor-1016 (PCB-1016)	mg/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-	-	-	-	-	-
Total PCBs	mg/L	-	-	-	-	-	-	-
General Chemistry								
Conductance, specific	umhos/cm	-	-	-	-	-	-	-
Cyanide (amenable)	mg/L	-	-	0.010 U	0.010 U	0.0050 U	-	0.010 U
Cyanide (total)	mg/L	-	-	-	-	0.0050 U	-	-
pH	s.u.	-	-	-	-	-	-	-
Temperature, field	Deg C	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/L	-	-	-	-	-	-	-
Total organic halides (TOX)	mg/L	-	-	-	-	-	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-115*	*GW-12636-091311-JY-012*
Sample Date:		*5/13/2011*	*9/13/2011*
Parameters:	***Units***		
Volatile Organic Compounds			
1,1,1,2-Tetrachloroethane	mg/L	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 U	0.001 U
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	-	-
1,2,3-Trichloropropane	mg/L	-	-
1,2,3-Trimethylbenzene	mg/L	-	-
1,2,4-Trichlorobenzene	mg/L	0.005 UJ	0.001 U
1,2,4-Trimethylbenzene	mg/L	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.025 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-
2-Hexanone	mg/L	0.05 U	0.01 U
2-Methylnaphthalene	mg/L	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/L	0.05 U	0.01 U
Acetone	mg/L	0.025 U	0.01 U
Acrylonitrile	mg/L	-	-
Benzene	mg/L	0.001 U	0.001 U
Bromobenzene	mg/L	-	-
Bromodichloromethane	mg/L	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 UJ	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U
Chlorobromomethane	mg/L	-	-
Chloroethane	mg/L	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	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
Cymene (p-Isopropyltoluene)	mg/L	-	-
Dibromochloromethane	mg/L	0.001 U	0.001 U
Dibromomethane	mg/L	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		***PFW-11***	***PFW-11***
Sample ID:		***GW-12636-051311-SSH-115***	***GW-12636-091311-JY-012***
Sample Date:		***5/13/2011***	***9/13/2011***
Parameters:	***Units***		
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 UJ
Diisopropyl ether	mg/L	-	-
Ethyl ether	mg/L	-	-
Ethylbenzene	mg/L	0.001 U	0.001 U
Hexachloroethane	mg/L	-	-
Iodomethane	mg/L	-	-
Isopropyl benzene	mg/L	0.005 U	0.001 U
m&p-Xylenes	mg/L	-	-
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	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 UJ	0.005 U
Naphthalene	mg/L	-	-
N-Butylbenzene	mg/L	-	-
N-Propylbenzene	mg/L	-	-
o-Xylene	mg/L	-	-
Styrene	mg/L	0.001 U	0.001 U
tert-Amyl methyl ether	mg/L	-	-
tert-Butyl alcohol	mg/L	-	-
tert-Butyl ethyl ether	mg/L	-	-
tert-Butylbenzene	mg/L	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U
Tetrahydrofuran	mg/L	-	-
Toluene	mg/L	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	-	-
Trichloroethene	mg/L	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 U	0.001 U
Vinyl chloride	mg/L	0.001 U	0.001 U
Xylenes (total)	mg/L	0.002 U	0.002 U
Semi-volatile Organic Compounds			
1,2,4-Trichlorobenzene	mg/L	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-
2,4,5-Trichlorophenol	mg/L	-	-
2,4,6-Trichlorophenol	mg/L	-	-
2,4-Dichlorophenol	mg/L	-	-
2,4-Dimethylphenol	mg/L	-	-
2,4-Dinitrophenol	mg/L	-	-
2,4-Dinitrotoluene	mg/L	-	-
2,6-Dinitrotoluene	mg/L	-	-
2-Chloronaphthalene	mg/L	-	-
2-Chlorophenol	mg/L	-	-
2-Methylnaphthalene	mg/L	-	-
2-Methylphenol	mg/L	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-115*	*GW-12636-091311-JY-012*
Sample Date:		*5/13/2011*	*9/13/2011*
Parameters:	***Units***		
2-Nitroaniline	mg/L	-	-
2-Nitrophenol	mg/L	-	-
3,3'-Dichlorobenzidine	mg/L	-	-
3-Nitroaniline	mg/L	-	-
4,6-Dinitro-2-methylphenol	mg/L	-	-
4-Bromophenyl phenyl ether	mg/L	-	-
4-Chloro-3-methylphenol	mg/L	-	-
4-Chloroaniline	mg/L	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-
4-Methylphenol	mg/L	-	-
4-Nitroaniline	mg/L	-	-
4-Nitrophenol	mg/L	-	-
Acenaphthene	mg/L	-	-
Acenaphthylene	mg/L	-	-
Anthracene	mg/L	-	-
Benzo(a)anthracene	mg/L	-	-
Benzo(a)pyrene	mg/L	-	-
Benzo(b)fluoranthene	mg/L	-	-
Benzo(g,h,i)perylene	mg/L	-	-
Benzo(k)fluoranthene	mg/L	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-
bis(2-Chloroethyl)ether	mg/L	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	-	-
Butyl benzylphthalate (BBP)	mg/L	-	-
Carbazole	mg/L	-	-
Chrysene	mg/L	-	-
Dibenz(a,h)anthracene	mg/L	-	-
Dibenzofuran	mg/L	-	-
Diethyl phthalate	mg/L	-	-
Dimethyl phthalate	mg/L	-	-
Di-n-butylphthalate (DBP)	mg/L	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-
Fluoranthene	mg/L	-	-
Fluorene	mg/L	-	-
Hexachlorobenzene	mg/L	-	-
Hexachlorobutadiene	mg/L	-	-
Hexachlorocyclopentadiene	mg/L	-	-
Hexachloroethane	mg/L	-	-
Indeno(1,2,3-cd)pyrene	mg/L	-	-
Isophorone	mg/L	-	-
Naphthalene	mg/L	-	-
Nitrobenzene	mg/L	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-
N-Nitrosodiphenylamine	mg/L	-	-
Pentachlorophenol	mg/L	-	-
Phenanthrene	mg/L	-	-
Phenol	mg/L	-	-
Pyrene	mg/L	-	-

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		*PFW-11*	*PFW-11*
Sample ID:		*GW-12636-051311-SSH-115*	*GW-12636-091311-JY-012*
Sample Date:		*5/13/2011*	*9/13/2011*
Parameters:	***Units***		
Metals			
Aluminum	mg/L	0.172 J[ba]	0.031 J
Aluminum (dissolved)	mg/L	-	-
Antimony	mg/L	0.002 U	0.002 U
Antimony (dissolved)	mg/L	-	-
Arsenic	mg/L	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	-	-
Barium	mg/L	0.0793 J	0.069 J
Barium (dissolved)	mg/L	-	-
Beryllium	mg/L	0.001 U	0.001 U
Beryllium (dissolved)	mg/L	-	-
Cadmium	mg/L	0.001 U	0.001 U
Cadmium (dissolved)	mg/L	-	-
Chromium	mg/L	0.005 U	0.005 U
Chromium Total (dissolved)	mg/L	-	-
Cobalt	mg/L	0.007 U	0.007 U
Cobalt (dissolved)	mg/L	-	-
Copper	mg/L	0.0048	0.002 U
Copper (dissolved)	mg/L	-	-
Iron	mg/L	0.202	0.1 U
Iron (dissolved)	mg/L	-	-
Lead	mg/L	0.003 U	0.003 U
Lead (dissolved)	mg/L	-	-
Manganese	mg/L	0.0317	0.055 J[ba]
Manganese (dissolved)	mg/L	-	-
Mercury	mg/L	0.0002 U	0.0002 U
Mercury (dissolved)	mg/L	-	-
Molybdenum	mg/L	-	-
Molybdenum (dissolved)	mg/L	-	-
Nickel	mg/L	0.02 U	0.02 U
Nickel (dissolved)	mg/L	-	-
Selenium	mg/L	0.005 U	0.005 U
Selenium (dissolved)	mg/L	-	-
Silver	mg/L	0.0002 U	0.0002 U
Silver (dissolved)	mg/L	-	-
Sodium (dissolved)	mg/L	-	-
Thallium	mg/L	0.001 U	0.001 U
Thallium (dissolved)	mg/L	-	-
Vanadium	mg/L	0.004 U	0.004 U
Vanadium (dissolved)	mg/L	-	-
Zinc	mg/L	0.02 U	0.02 U
Zinc (dissolved)	mg/L	-	-
Pesticides			

HISTORICAL RESULTS FOR THE 2010 2011 MONITORING WELL NETWORK
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample Location:		***PFW-11***	***PFW-11***
Sample ID:		***GW-12636-051311-SSH-115***	***GW-12636-091311-JY-012***
Sample Date:		***5/13/2011***	***9/13/2011***
Parameters:	***Units***		
Aroclor-1016 (PCB-1016)	mg/L	-	-
Aroclor-1221 (PCB-1221)	mg/L	-	-
Aroclor-1232 (PCB-1232)	mg/L	-	-
Aroclor-1242 (PCB-1242)	mg/L	-	-
Aroclor-1248 (PCB-1248)	mg/L	-	-
Aroclor-1254 (PCB-1254)	mg/L	-	-
Aroclor-1260 (PCB-1260)	mg/L	-	-
Total PCBs	mg/L	-	-
General Chemistry			
Conductance, specific	umhos/cm	-	-
Cyanide (amenable)	mg/L	0.010 U	0.0050 U
Cyanide (total)	mg/L	-	0.0050 U
pH	s.u.	-	-
Temperature, field	Deg C	-	-
Total organic carbon (TOC)	mg/L	-	-
Total organic halides (TOX)	mg/L	-	-