RCRA FACILITY INVESTIGATION (RFI) REPORT

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

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LIST OF TERMS AND ACRONYMS

ACM(s)	Asbestos Containing Material(s)
Altech	Altech Drilling Services LLC
AOC(s)	Area(s) of Concern
AOI(s)	Area(s) of Interest
AST(s)	Aboveground Storage Tank(s)
Background[A]	Background values used for the Facility; based on a combination of Statewide Default Background Levels and Facility-Specific Background Levels
BDA	Building Decommissioning Assessment
bgs	Below Ground Surface
COC	Certificate of Coverage
CRA	Conestoga-Rovers & Associates
CRP	Community Relations Plan
DMP	Data Management Plan
DOCC	Description of Current Conditions
ERNS	Emergency Response Notification System
Facility	Former Peregrine (US) Inc. Coldwater Road Facility
FSP	Field Sampling Plan
GCC	Groundwater Contact Criteria
Generic Industrial Criteria	Michigan Act 451, Part 201 Generic Industrial Criteria identified by the MDEQ RRD Operational Memorandum No. 1, updated January 23, 2006, pursuant to 1994 PA 451 as amended
GM	General Motors Corporation
HASP	Health and Safety Plan
IDCC	Industrial Direct Contact Criteria
IDWC	Industrial Drinking Water Criteria
IDWPC	Industrial Drinking Water Protection Criteria
IGVIAIC	Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria
IM	Interim Measures
ISSIC	Infinite Source Soil Inhalation Criteria
MDEQ	Michigan Department of Environmental Quality
MDNR	Michigan Department of Natural Resources
MDNRE	Michigan Department of Natural Resources and Environment
MLC	Motors Liquidation Company
mph	Miles Per Hour
Nova	Nova Consultants Inc.
NPDES	National Pollutant Discharge Elimination System

LIST OF TERMS AND ACRONYMS

OBG	O'Brien and Gere Engineers Inc.
PA/VSI	Preliminary Assessment/Visual Site Inspection
PCB(s)	Polychlorinated Biphenyl(s)
Peregrine	Peregine (US) Inc.
PID	Photoionization Detector
PMP	Project Management Plan
POTW	Publicly Owned Treatment Works
PSIC	Particulate Soil Inhalation Criteria
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
REALM	Remediation and Liability Management Company, Inc.
RFI	RCRA Facility Investigation
RRD	Remediation and Redevelopment Division
Site	Former Peregrine (US) Inc. Coldwater Road Facility
STL	Severn Trent Laboratories
SVIAIC	Soil Volatilization to Indoor Air Inhalation Criteria
SVOC(s)	Semi-Volatile Organic Compound(s)
SWMU	Solid Waste Management Unit
TCL/TAL	Target Compound List/Target Analyte List
U.S. EPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC(s)	Volatile Organic Compound(s)
WHMD	Waste and Hazardous Materials Division
WWTP	Wastewater Treatment Plant

1.0 INTRODUCTION

1.1 GENERAL

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report (Report) was prepared by Conestoga-Rovers & Associates (CRA) on behalf of Motors Liquidation Company (MLC) [formerly known as General Motors Corporation (GM) and Remediation and Liability Management Company, Inc., (REALM)], for the Former Peregrine (US) Inc. (Peregrine) Coldwater Road Facility (Facility or Site) located in Genesee Township, Michigan.

General Motors Corporation filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, General Motors Corporation, now known as Motors Liquidation Company (MLC), sold certain assets pursuant to a bankruptcy court order to a new entity now known as General Motors, LLC (GM LLC). The Former Peregrine U.S. Inc. Site was not part of the sale so it continues to be owned by MLC in its capacity as the debtor in possession in the bankruptcy case. REALM filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on October 9, 2009.

The Facility location is presented on Figure 1.1. A Facility plan which identifies the Areas of Interest (AOIs) addressed in the RFI is presented on Figure 1.2 and Plan 1 (Plan 1 is located in the sleeve at the back of this RFI Report). An aerial photograph of the Facility (March 25, 2000) is presented on Figure 1.3. A Genesee Township Zoning Map for the Facility and surrounding areas is presented on Figure 1.4 (January 1, 2003, amended September 26, 2005).

This document summarizes the methodologies and results of the investigative field activities completed at the Facility between May 2000 and April 2004. The Description of Current Conditions Report (CRA, March 31, 2000) (herein referred to as the DOCC Report) identified a total of 21 AOIs, 13 of which required additional investigation. A total of 12 AOIs were investigated under the scope of the RFI and one AOI was investigated pursuant to a separate work plan.

The RFI investigative activities focused on characterizing soil and groundwater environmental quality within and adjacent to 12 AOIs (AOI 2, AOI 8, AOI 9, AOI 11, AOI 12, AOI 13, AOI 14, AOI 17, AOI 18, AOI 19, AOI 20, and AOI 21) as designed in the RFI Work Plan (CRA, May 16, 2000), the RFI Work Plan Addendum #1 (REALM, April 27, 2001), and the RFI Work Plan Addendum #2 (CRA, March 28, 2002) (herein referred to collectively as the RFI Work Plans). A supplemental soil investigation was

completed at AOI 3 [former waste oil underground storage tanks (USTs) only] to address a lack of closure documentation for this area (based upon concerns identified by Michigan Department of Environmental Quality - Waste and Hazardous Materials Division (MDEQ-WHMD), now known as the Michigan Department of Natural Resources and Environment (MDNRE), in its draft correspondence dated May 3, 2000). A copy of the UST Closure Documentation correspondence dated September 25, 2000 is presented in Appendix A-1.

A supplemental soil investigation was also completed at AOI 1 (the Former Drum Storage Area) to address the MDEQ-WHMD denial of closure in its letter dated March 26, 1998. Additional investigation and remediation activities were conducted under a separate work plan and therefore AOI 1 was not included as part of the Facility RFI. Sampling results were submitted in the Closure Certification Report by O'Brien and Gere Engineers (OBG) on January 24, 2005. The MDEQ approved closure in their letter dated March 24, 2005.

The RFI investigation was completed in accordance with the specifications outlined in the Quality Assurance Project Plan (CRA, April 28, 2000) (herein referred to as the QAPP), and the RFI Work Plans for the Facility.

This document also summarizes the interim measures (IM) activities completed at the Facility between July 2001 and September 2004 (see Section 1.3). A detailed IM Completion Report (IM Report) will be submitted under a separate cover.

1.2 CHRONOLOGY OF SUBMITTALS

The DOCC Report was submitted to the MDEQ on March 31, 2000. The DOCC Report identified 21 AOIs at the Facility, based on the Preliminary Assessment/Visual Site Inspection (PA/VSI) (Techlaw, September 1998), and a review of historical information for the Facility, including environmental investigations conducted at the Facility as part of the property transfer from GM to Peregrine in December 1996. Supplemental information to the DOCC Report regarding UST closures at AOI 3 and AOI 15 were submitted to the MDEQ in correspondence dated September 25, 2000 (Appendix A-1).

The RFI Work Plan was submitted to the MDEQ on May 16, 2000, which detailed the scope of work for further characterization of the 12 AOIs identified in the DOCC Report as requiring further investigation.

The first phase of RFI field work was completed between May 2000 and August 2000. Results in the Draft RFI Report were submitted to the MDEQ on November 30, 2000. The MDEQ provided comments on the Draft RFI Report in their letter dated March 26, 2001.

The second phase of RFI investigation was conducted in the Building 44 basement pursuant to RFI Work Plan Addendum #1 in April and May 2001. Responses to the MDEQ's March 26, 2001 comments on the Draft RFI Report, results of the May 2001 investigation, and the RFI Work Plan Addendum #2, were provided in the Responses to Draft RFI Comments letter dated March 28, 2002.

The third phase of RFI investigation was conducted pursuant to RFI Work Plan Addendum #2. Additional groundwater sampling was conducted in October 2002 and results were submitted to MDEQ in the Second Round Groundwater Sampling (REALM, April 24, 2003).

Hydrogeologic investigations were also conducted in October 2002 and results were submitted to MDEQ in the Groundwater Not In An Aquifer Report (CRA, April 24, 2003). The MDEQ did not accept the request for the status of Groundwater Not In An Aquifer at the Facility

Additional delineation of soil samples that exceeded Act 451, Part 201 generic industrial criteria in 2002, specifically Industrial Direct Contact Criteria (IDCC), Soil Volatilization Indoor Air Inhalation Criteria (SVIAIC), and/or Particulate Soil Inhalation Criteria (PSIC) was conducted in June 2002 and results were submitted to MDEQ in the Delineation Soil Sample Results (REALM, September 10, 2003).

The results of all phases of RFI investigation are included in this RFI Report.

1.3 INTERIM MEASURES CHRONOLOGY

IM activities were conducted at the Facility between June 2001 and April 2009. The following IM activities are described in detail in the IM Report, submitted under a separate cover:

- Approximately 90 cubic yards of soil were excavated from an area approximately 21 feet by 19 feet by 6 feet deep, in the Building 44 basement, in June 2001. This soil was excavated due to exceedances of IDCC and PSIC at BH-9-26-00.

- Coal fines were removed from the former powerhouse area in June 2002.
- Based on the 2002 soil delineation sampling, soil was excavated at sample locations K-35, BH-2-3-00, BH-9-23-00, and BH-11-1-00 due to exceedances of IDCC, PSIC, and/or SVIAIC. Approximately 30 cubic yards of soil was removed from each of the K-35, BH-2-3-00, and BH-9-23-00 locations, and approximately 60 cubic yards was removed from the BH-11-1-00 location. Impacted concrete and soil from the Building 44 slab, and soil from the former Drum Storage Area, were also excavated. The excavation was conducted in March 2004 and April 2004. The excavations were backfilled with clean soil. Site restoration was conducted between April 2004 and September 2004.
- A small release of oily water was discovered on the building slab and cleaned up in April 2009. Asphalt and a broken pipe were disrupted by a snow plow, and oily water was found on the ground. The broken asphalt was placed into drums along with other solids (PPE, plastic, absorbent booms). The water was containerized in a tanker truck. The water and solids were characterized as non-hazardous. The pipe was cut below grade and grouted with cement mix. The August 2, 2010 Site inspection, conducted by CRA on behalf of MLC, confirmed that no additional oil-stained areas were observed.

In addition, concrete and soil removal was conducted at AOI 1 (the Former Drum Storage Area) in March 2004. A description of the IM activities and the verification results are included in the Closure Certification Report for the Former Drum Storage Area and approved by the MDEQ in a letter dated March 24, 2005.

1.4 RFI OVERVIEW

Several environmental investigations were conducted at the Facility as part of the property transfer from GM to Peregrine in December 1996. These investigations provided information regarding the Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified by TechLaw during the PA/VSI (TechLaw, September 1998) as well as other AOIs identified in the DOCC Report.

The historical (pre-RFI) analytical results are summarized in Appendix B and indicated exceedances of generic industrial criteria at certain locations. Analytical results from historical investigations are discussed in further detail in the DOCC Report. Some of the AOIs had sufficient analytical information to determine that there was no need for additional investigation. After the evaluation in the DOCC Report, and further

evaluation that is documented in the RFI Work Plan, 12 AOIs were determined to require additional characterization.

An RFI Work Plan was designed and submitted to the MDEQ-WHMD that detailed the proposed investigation activities for the 12 AOIs. The RFI Work Plan included the following support information and project plans:

- Historical Soil Boring and Monitoring Well Logs (Appendix A of the RFI Work Plan)
- Project Management Plan (PMP) (Appendix B of the RFI Work Plan)
- Quality Assurance Project Plan (QAPP) (Appendix C of the RFI Work Plan)
- Data Management Plan (DMP) (Appendix D of the RFI Work Plan)
- Health and Safety Plan (HASP) (Appendix E of the RFI Work Plan)
- Community Relations Plan (CRP) (Appendix F of the RFI Work Plan)
- Field Sampling Plan (FSP) (Appendix G of the RFI Work Plan)
- Historical Analytical Results (Appendix H of the RFI Work Plan)

Historical analytical results and sampling activities were used in conjunction with a review of the historical operations to design the sampling strategy for each AOI investigation. These RFI sampling strategies were summarized in the RFI Work Plan and are discussed in Section 3.0 of this RFI Report.

1.5 RFI OBJECTIVES

The objectives of the RFI were to:

- Characterize the nature and extent of any potential releases of hazardous waste and/or hazardous constituents in environmental media at the Facility not previously evaluated and addressed
- Assess potential risks to human health and the environment associated with any potential releases of hazardous waste and/or hazardous constituents
- Determine whether interim corrective measures were necessary to control current unacceptable risks, if any, to human health
- Determine whether a corrective measures evaluation was necessary to mitigate current and future unacceptable risks, if any, to human health and the environment

1.6 RFI APPROACH

The RFI investigation was based on the appropriate application of the land use specific Michigan Act 451, Part 201 Cleanup Criteria identified by the MDEQ Remediation and Redevelopment Division (RRD) Operational Memorandum No. 1, updated January 23, 2006, pursuant to 1994 PA 451 as amended (hereafter referred to as generic industrial criteria). The reasons for this approach are as follows:

1. The Facility is zoned and utilized for industrial purposes
2. Future land use plans contemplate the continued industrial use of the Facility

The historical and RFI soil data have been compared to generic industrial criteria; namely Industrial Direct Contact Criteria (IDCC), Particulate Soil Inhalation Criteria (PSIC), Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC), Infinite Source Soil Volatilization Criteria (ISSIC), and Industrial Drinking Water Protection Criteria (IDWPC) for soil; and Groundwater Contact Criteria (GCC), Industrial Drinking Water Criteria (IDWC) and Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC) for the perched water.

In addition to generic industrial criteria, site-specific background levels (referred to herein as Background[A]) were established based on the Sampling Strategies and Statistics Training Materials (S3TM) Guidance Document (MDEQ, 2002). These values are also utilized in the data review presented in Section 5.0.

1.7 RFI REPORT ORGANIZATION

The remainder of the RFI Report is organized as follows:

- Section 2.0 - Environmental Setting
- Section 3.0 - RFI Scope of Work and Methodologies
- Section 4.0 - RFI Investigation Summary
- Section 5.0 - Results of RFI
- Section 6.0 - Summary, Conclusions, and Recommendations
- Section 7.0 - References

2.0 ENVIRONMENTAL SETTING

2.1 FACILITY LOCATION

The Facility is located at G1245 East Coldwater Road, north of the City of Flint, in Genesee Township, Genesee County, Michigan at 43° 45' north latitude and 83° 05' west longitude, on approximately 119 acres of land (landfill not included). Manufacturing was historically conducted in the approximately 2 million-square-foot Building 44 and associated buildings formerly located at the Facility.

2.2 SURROUNDING LAND USE

The Facility is bordered on the north by MLC property (i.e., the closed landfill); on the south by East Coldwater Road and commercial facilities; on the west by Horton Street; and on the east by CSX Transportation property and railroad tracks. The Facility is currently zoned industrial and has been historically utilized for industrial activities since 1952. The Facility is located in an area classified by Genesee Township as Heavy Industrial (I-2) as described in Sections 1200, 1201, 1202, and 1203 of the Genesee Township Zoning Ordinance. A copy of the Genesee Township Zoning Ordinance is presented in Appendix C.

The property to the north contains the closed wastewater treatment sludge mono-fill landfill, former wastewater treatment plant (WWTP) (decommissioned and demolished by GM in 1999), and a restored wetlands area owned and maintained by MLC. Stanley Road runs east-west immediately north of this adjacent property.

The property immediately south of East Coldwater Road is a mixture of light industrial, commercial, and residential property.

The property to the west across Horton Street is primarily residential. In addition, Interstate Highway I-475 curves through the area west of Horton Street from an east-west path to the north-south direction.

The property to the east of the Facility contains a railroad right-of-way that is the property of CSX Transportation. The railway tracks within this right-of-way run in a north northwest/south southeast direction.

2.3 PROPERTY OWNERSHIP HISTORY

GM acquired the property that the Facility is located on as vacant land in 1951 from several private parties. The Buick Motor Division started construction of the plant buildings that same year. However, prior to completion, the Facility was transferred to GM's Ternstedt Division. The Fisher Body Division subsequently acquired and operated the Facility in 1968. In 1985, the Fisher Body hardware plants were merged with Guide Lamp and became the Fisher Guide Division. In early 1989, Fisher Guide Division was merged with Inland Division to become the Inland Fisher Guide Division. The Inland Fisher Guide Division became part of Delphi Automotive Systems in early 1995 and the Facility was operated as the Delphi Interior and Lighting Systems Division Coldwater Road Plant until GM sold the Facility to Peregrine in December 1996. Peregrine ceased operations in 1998 and GM's subsidiary REALM acquired the property in August 1999. From October 1999 to October 2000, the Administration Building was leased to GM as a Transition Center/Jobs Bank. REALM completed environmental decommissioning and demolition of all above grade structures in June 2001. The Facility is currently owned by MLC.

2.4 CURRENT AND HISTORICAL OPERATIONS

2.4.1 CURRENT OPERATIONS

There are no industrial operations currently being conducted at the Facility. The property is currently being leased and used for the storage of steel racks.

2.4.2 DECOMMISSIONING AND DEMOLITION (1999-2001)

The Facility underwent a complete and systematic environmental decommissioning and demolition program that began during the summer of 1999 (after REALM acquired title to the Facility in August 1999) and was completed in October 2001. The following provides a summary of associated activities and the general time frames during which they were implemented:

- Building Decommissioning Assessment (BDA) - Summer 1999
- Collection /Removal of Chemical Containers - August/September 1999
- Collection/Removal of Transformers and Capacitors - September 1999 to April 2001

- Collection/Removal of Non-Structural Asbestos Containing Materials (ACMs) - December 1999 to April 2000
- Aboveground Environmental Cleaning - January 2000 to September 2000
- Building Demolition - October 2000 to October 2001

2.4.3 HISTORICAL INDUSTRIAL OPERATIONS (1995-1999)

Manufacturing operations occurred in the main manufacturing building (Building 44) at the locations summarized on Figures 2.1 and 2.2 (Peregrine and Delphi, respectively). The Facility was most recently used by Delphi and Peregrine for the manufacture of the following automobile components:

1) **Window Regulators:** The Facility produced conventional and tape-drive regulators for W-Body and J-Body vehicles. Window regulators are comprised of both fabricated metal and motorized mechanical components. The fabricated metal components were manufactured in-house, while the motorized mechanical components were supplied by outside vendors. The in-house manufacturing processes included unrolling/straightening rolls of steel, cutting and shaping, stamping, riveting, assembly, and washing.

2) **Door Hinges:** The Facility produced both front and rear door hinge assemblies for W-Body and J-Body vehicles, as well as N-Body deck lift hinges. Door hinge assemblies are essentially comprised of three major components: two steel hinge joint components and a spring assembly. The two hinge joint components were manufactured in-house, while the springs were supplied by outside vendors. The in-house manufacturing processes included unrolling/straightening sheets of steel, cutting and shaping to size, stamping, assembly (both automated and hand), washing, and welding.

3) **Door Modules:** The Facility produced door modules for G-Body, K-Body, and K_{sp}-Body vehicles. Door modules are the formed steel backing plates that line the interior of automobile doors. The door module essentially consists of a single steel plate. The entire component was manufactured in-house. The in-house manufacturing process included unrolling/straightening sheets of steel, cutting and shaping to size, stamping, and washing. This process was discontinued upon transfer of manufacturing operations to Peregrine in December 1996.

4) **Seat Adjusters:** Seat adjuster operations consisted of assembly operations only. All adjuster components were manufactured and supplied by outside sources. This process was moved to another Facility prior to transfer of operations to

Peregrine or discontinued upon transfer of manufacturing operations to Peregrine in December 1996.

5) **Other Operations:** Some component parts were heat treated in the presence of barium salts to harden the steel. No machining, painting, heat treating, or plating was reported to take place in the Facility after Peregrine commenced operations on January 2, 1997.

Other historical operations which were conducted at the Facility (Delphi and/or Peregrine) utilized a variety of chemicals, including oils, greases, solvents, water treatment chemicals, minor amounts of paint, and barium salts for heat treating. Wastewaters generated by Delphi during washing activities were treated on site prior to discharge to the local publicly owned treatment works (POTW). On-site WWTP operations were discontinued at the time of the property transfer to Peregrine in December 1996 and the WWTP was subsequently demolished by GM. Wastewaters generated by Peregrine during its parts stamping and manufacturing operations were subsequently managed through aboveground Wastewater Storage Tanks formerly located in the northwest corner of the main manufacturing building (Building 44). These tanks were periodically emptied by a contracted waste hauler for off-site treatment and disposal.

2.4.4 HISTORICAL OPERATIONS (PRIOR TO 1995)

Prior to the manufacture of automobile components by Delphi and Peregrine, historical activities at the Facility consisted of a variety of other automotive parts related operations. One of these historical operations was the former plating operations, for which there were reported to be 13 chrome plating lines and 2 zinc barrel plating lines. The generalized locations of the former platers are presented on Figure 2.3 (based upon available historical drawings). Other known historical processes included die casting, solvent-based adhesive/gluing, and painting operations. Descriptions of the pre-1995 historical operations at the Facility are summarized below:

1) **Plating Operations:** The locations of the former plating operations are presented on Figure 2.3. There are reported to have been 15 plating lines in operation at some point in time during the almost 30 years of manufacturing by the Fisher Body Division and two subsequent merged divisions. The following list identifies some of the chrome platers, and their approximate removal dates:

   – The 9 Chrome Plater was located between Columns D and G and Columns 23 and 24 and was removed in 1983

- Two chrome platers located between Columns H and M and Columns 31 and 33 were removed in 1983
- The 10 Chrome Plater was located between Columns D and G and Columns 22 and 23 and was removed in 1973
- The 5 Chrome Plater was located at Column K-25 and was removed in 1971
- Two other chrome platers, located between Columns E and G and Columns 33 and 35, were removed in 1971
- Two other chrome platers, located at Columns K-34 & K-35, were removed in 1969 and 1973
- A half-size automated chrome plater located at Column L-30 was removed in 1969
- A manual still plater (with hoist) located at Column J-22, as well as a small still plater known as the North Still, were removed in 1967

The above plating lines had associated sumps and an associated series of aboveground storage tanks (ASTs) in the basement of the main manufacturing building which made up the Plating Solution Filtration/Treatment Area. The filtration and treatment area allowed the plating solutions to be processed for re-use.

There were also two zinc plating lines in operation concurrently with many of the chrome platers. One zinc plating unit was located near Column K-8 and was removed in 1979. An inactive zinc barrel plating unit which was located between Columns K-1 and K-2 was removed by GM in 1997.

In addition, die casting operations were historically conducted at the Facility within the northeast quadrant of Building 44.

2) **Headliner Operations:** The headliner adhesive and chemical ASTs were located east of the main manufacturing building. There were eight stainless steel storage tanks, approximately 8,000 gallons each, associated with the former headliner activities. These tanks historically contained solvent-based adhesives. More recently, the tanks contained water based adhesives. These tanks have all been removed.

3) **Plastisol Related Activities:** A UST, located east of the main manufacturing building (near Column S-31), was reportedly used for plastisol related activities between approximately 1953 and 1984. Plastisol was a rubber-type coating placed on the plating racks in order to separate the racks themselves from the plating operation. The Plastisol UST was simply used as temporary storage whenever the interior dip tank required cleaning. The Plastisol UST was removed and closed by GM in 1997.

4) **Other Underground Storage Tanks:** There are no USTs currently present at the Facility. All former USTs have been removed. Two 2,000-gallon gasoline and two 2,000-gallon waste oil tanks were removed in November 1990. A closure report was submitted to the Michigan Department of Natural Resources (MDNR) in 1990. Closure was approved for the two gasoline tanks, however, a closure letter was not received from MDNR for the two waste oil tanks (see Appendix A-1). A supplemental soil investigation was performed as part of this RFI on the area that formerly contained these waste oil tanks and is discussed further in Sections 4.3.13 and 5.3.5.15.

   A 1952 design drawing of the Facility identified a tank farm located near the current electrical substation area. However, based upon interviews with former Delphi personnel, no tanks were ever installed at this location (due to a change in projected use of the Facility).

5) **Other Operations:** It is believed that some metal parts were historically degreased with chlorinated solvents within the western portion of the former tool room.

2.5 HISTORICAL WASTE MANAGEMENT PRACTICES AND REGULATORY HISTORY

Wastes were generated at the Facility since the start of production in 1952. These wastes were primarily generated in plating operations, press room operations, and maintenance operations within Building 44 and handled by the former WWTP and lagoons. The Facility's non-production support areas (e.g., powerhouse) also generated some wastes. The waste management activities associated with the operation of the Facility are summarized in this section, including the Facility's waste generation, treatment, storage, and disposal practices.

Building 66 contained the Peregrine 90-day Hazardous Materials Storage Area. Hazardous waste management at the Facility ceased in late 1998, at which time the Hazardous Materials Storage Area was demolished. The Building 66 Hazardous Materials Storage Area (AOI 5) is discussed further in Section 7.5 of the DOCC Report. The Former Drum Storage Area (AOI 1), a permitted waste storage area for hazardous waste, ceased operation in September 1994, was closed in 2004, and is discussed further in Section 7.1 of the DOCC Report and the Closure Certification Report for the Former Drum Storage Area closure was approved by the MDEQ in their letter dated March 24, 2005 (Appendix A-2).

In their letter dated March 24, 2005 (Appendix A-2), the MDEQ acknowledged closure of all regulated hazardous waste management units, with the exception of the landfill on the adjacent property, and that the Facility is no longer operating as a hazardous waste treatment, storage, or disposal facility.

In their letter dated March 24, 2005 (Appendix A-2), the MDEQ acknowledged that all required corrective actions under Order No. 64-05-92 and R 299.9629 of the Administrative Rules for Part 111 have been completed, and that additional investigation or remediation is not expected to be necessary (with the exception of the WWTP on the adjacent property). A Notice of Approved Environmental Remediation and a Restrictive Covenant for the Landfill and Remaining Materials Area were recorded with the Genesee County Register of Deeds on June 17, 2005.

2.5.1 WASTE GENERATION

1) **Former Plating Operations:** Plating operations historically took place in Building 44 from approximately 1953 through 1987. There were 13 chrome plating lines and 2 zinc plating lines. A number of these plating lines had collection sumps associated with them. Spent plating solutions were generated which variously contained chrome, zinc, copper, acid, alkali, and cyanide. Plating solutions were recycled through the plating system, which included a variety of solution regeneration activities that occurred at the filtration and treatment area located in the basement. Spent plating solutions were pumped to the WWTP for treatment. The resultant WWTP sludges were stored in associated sludge drying beds. The sludge drying beds were active until June 1987 when plating operations were discontinued, and discharge from the WWTP was re-routed to the sanitary sewer system. The Former Plating Areas (AOI 9) are discussed in Section 7.9 of the DOCC Report. As part of the closure activities of the drying beds, a monofill landfill was constructed and closed. The lagoons, drying beds, and landfill were closed under a separate State of Michigan lead regulatory program and no further corrective action is required for the landfill (other than ongoing operation and maintenance (O&M) activities). (These former plating waste activities are on a separate property with a different EPA ID number.)

2) **Former Press Room Operations:** The metal stamping operations generated wastewater containing oil, grease, suspended solids, and scrap metal. The metal drawing lubricants used in more recent years were made from saturated animal fats rather than petroleum based lubricating oils.

3) **Former Maintenance Operations:** Maintenance cleaning operations historically generated spent solvents from parts washers. The Maintenance Paint Booth and small part marking operations generated waste paint and paint related materials. The Maintenance Paint Booth had not been used in recent years (Peregrine/Delphi time frame). Other solid wastes from maintenance operations included batteries, fluorescent lights, and light ballasts.

4) **Support Areas:** Other wastes were generated by the Facility powerhouse, including boiler blowdown and fly ash. The PA/VSI identified the Former Coal Storage Area as an AOC (AOI 11). According to file material and Facility personnel, the Former Coal Storage Area was unlined. The Former Coal Storage Area (AOI 11) is discussed in further detail in Section 7.11 of the DOCC Report.

5) **Other:** Another AOC identified by the United States Environmental Protection Agency (U.S. EPA) in the PA/VSI was the area surrounding 11 former empty caustic tanks (AOI 12) staged immediately west of the Former Drum Storage Area (AOI 1) adjacent to the north side of Building 44. The caustic was used to clean sheet metal prior to coating. The related coating operations took place on the second floor of Building 44. The Former Caustic Tanks (AOI 12) are discussed further in Section 7.12 of the DOCC Report.

Peregrine submitted a Notification of Regulated Waste Activity to MDEQ, dated December 23, 1996, prior to acquiring the former Delphi Facility. Peregrine identified their waste streams as being D001, D002, D006, D007, D008, D009, D018, D039, D040, F005, F006, U070, 003D, and 039L in a letter to MDEQ dated January 23, 1997. An additional notification was submitted on April 11, 1997 to supply the additional waste streams D011, D019, F001, P098, P104, 006L, and 021L.

A Notification of Regulated Waste Activity and a Part A Hazardous Waste Permit was submitted to the MDEQ, dated September 25, 2000. The submittals identified REALM (now MLC) as the legal owner of the Facility which was environmentally decommissioned and demolished under EPA ID #MIR000020743. It was also identified that wastes generated from these activities would generally be non-hazardous solids with the possibility of characteristic solid wastes being generated (e.g., D006, D008) during facility cleaning operations.

2.5.2 WASTE STORAGE

Historically, metal scrap and waste metal drawing lubricant generated during the parts stamping operations in the press room were collected in a below grade system

consisting of a series of conveyor trench systems and sumps. These materials were then recycled through oil filters. Wastes from the oil filters were conveyed to the WWTP through the Overhead Waste Pipes (AOI 10). This system was located adjacent to the parts stamping machines. The conveyor systems were used to transport the scrap metal and waste lubricant to one of the 11 collection locations in Building 44. These conveyor systems and sumps in Building 44 are collectively referred to as the Former Scrap Metal Management System (AOI 7) and are discussed further in Section 7.7 of the DOCC Report. During Peregrine operations, waste metal drawing lubricant from the collection pits, together with wastewater and runoff from the floor drains, was pumped through Overhead Waste Pipes (AOI 10) to temporary storage in the Former Wastewater Storage Tanks (AOI 6) located in the northwest corner of Building 44 (see Section 7.6 and 7.10 of the DOCC Report). Scrap metal collected in the sumps was transported by carts to the Former Scrap Metal Storage Area (AOI 8) located in Building 63. The Former Scrap Metal Storage Area is discussed further in Section 7.8 of the DOCC Report. During historical operations at the Facility, some of the waste lubricating oils generated from operations were stored in two 2,000-gallon USTs which were located outside the east wall of Building 44 (see Figure 1.2). The former USTs (AOI 3) are discussed further in Section 7.3 of the DOCC Report.

Former Satellite Accumulation Areas (AOI 4) were located at several points in Building 44 for temporary storage of wastes. The wastes included the following:

- Non-hazardous waste including plant trash
- Used aerosol paint cans and used batteries in the General Storage area, located in the basement of Building 44
- Waste paint and related materials in the Maintenance Paint Booth
- Spent heat furnace salt generated in the Former Tool Room
- Accumulation of emergency light batteries and polychlorinated biphenyl (PCB)/non-PCB lighting ballasts in the Electric Repair Shop
- Accumulated spent solvent in the Machine Repair Shop

The Former Satellite Accumulation Areas (AOI 4) are discussed further in Section 7.4 of the DOCC Report. All of the hazardous wastes from the Former Satellite Accumulation Areas were transported to the Hazardous Materials Storage Area (AOI 5) prior to off-site treatment or disposal. The Hazardous Materials Storage Area, which is discussed further in Section 7.5 of the DOCC Report, was operated as a less than 90-day generator storage area.

The Former Waste Pile Pad (AOI 2) is located north of Building 63 and was used for sorting non-hazardous solid wastes, such as trash from bins from various locations on the Facility and from trash cans in the parking lot. A trench drain collected spills and rainwater from the Former Waste Pile Pad, which drained to the Former Wastewater Storage Tanks. The Former Waste Pile Pad is discussed further in Section 7.2 of the DOCC Report.

2.5.3 WASTE DISPOSAL

Based on a review of available file information and information provided by past Facility employees, spent plating solutions generated in Building 44 were treated in the former WWTP located immediately to the north of the Facility. The subsequent sludges were deposited in adjacent drying beds and subsequently landfilled. The landfilled areas are located on a separate property to the north of the Facility and are regulated under a separate approved and completed RCRA Closure Plan and Consent Order. Other than the sludges from the treatment of spent plating solutions, all other wastes were historically sent off site to licensed facilities for treatment or disposal.

2.5.4 PAST WASTE SPILLS

The Emergency Response Notification System (ERNS) database identified spill notifications during the years 1987-1999. The following summary is believed to be a comprehensive listing for the Facility for the period from 1987 to 1999:

Spill Date	*Company Name (As listed in Database)*	*Chemical/Compound of Concern*	*Estimated Quantity Released*
10/31/90	GM - Inland Fisher Guide Division	Metal Working oil	100 gallons
06/13/90	GM - Inland Fisher Guide Division	Water soluble oil discharged into Hughes Drain	400 gallons
06/27/89	GM - Inland Fisher Guide Division	Water soluble oil discharged into Hughes Drain	1,200 gallons

A supplemental review of the historical spills was submitted to MDEQ-WHMD under separate correspondence dated September 25, 2000, presented in Appendix A-1.

2.5.5 REGULATORY HISTORY

GM filed a Notification of Hazardous Waste Activity Form for the Inland Fisher Guide Coldwater Road Facility with the U.S. EPA on August 12, 1980, pursuant to Section 3010 of RCRA, wherein GM identified itself as a generator of hazardous waste, and an owner/operator of a treatment, storage, and disposal facility. The U.S. EPA Identification Number, which had been used for the entire property including the adjoining landfill, was MID005356860. Currently, this identification number only applies to the landfill portion. GM filed a Part A Hazardous Waste Permit Application for the Facility on November 19, 1980, and amended it on August 10, 1984. The treatment, storage, and disposal operations were subject to the interim status requirements of R299.9601 and 40 CFR Part 265. A Closure Plan addressing these areas was subsequently submitted to the MDNR in September 1988. The Closure Plan and Post-Closure Plan (Volumes I and II) (OBG, August 1989) was submitted to the MDNR (now MDNRE), and approved in accordance with 40 CFR Part 265.112(d)(4) on September 7, 1989 (pursuant to a Consent Order). The Former Drum Storage Area (AOI 1) and Former Waste Pile Pad (AOI 2) are included in the August 1989 Closure Plan and Post-Closure Plan although they are located on the former Peregrine property. Additional investigation was conducted in the vicinity of the Former Drum Storage Area and excavated soil from this area that exceeded MDEQ generic IDWPC. These activities are discussed in a separate report entitled the Closure Certification Report for the Former Drum Storage Area, and closure was approved by the MDEQ-WHMD (now MDNRE) in their letter dated March 24, 2005.

When the property was sold by GM to Peregrine, a new EPA identification number was obtained (MIR000020743) and applies to the Facility addressed in this RFI Report. The Facility was covered under National Pollutant Discharge Elimination System (NPDES) general permit #MIS519000 and Certificate of Coverage (COC) #MIS510354. Storm sewers were abandoned with flowable fill during decommissioning and demolition activities at the Facility between 2000 and 2001. An application for "No Exposure Certification" for Exclusion from NPDES Storm Water Permitting was submitted on September 1, 2004.

The Facility had a Sewer Use Permit for sanitary discharge to the WWTP owned by the Beecher Metropolitan District. Under this permit, the Facility had two municipal water sanitary service accounts: 60-52-3791-007 and 60-52-3840-040. There are no longer any sanitary discharges from the Facility and these accounts have been closed. The sanitary sewer manholes have been plugged.

Finally, the Facility had a "Renewable Operating Permit" (#199600341) for air. It should be noted, however, that there are no current operations occurring at the Facility with air emissions, and this permit has been closed out.

2.6 WATER SUPPLY

The water supply at the Facility was provided by the City of Flint and the Beecher Metropolitan District System. The City of Flint provided water service to the former manufacturing area (Building 44) and Beecher Metropolitan District provided water services to the former Administration Building (Building 44A).

2.7 DEMOGRAPHICS

The Facility is located in the Genesee Township, Genesee County, Michigan. The closest and largest municipality is the City of Flint located directly south and west of the Facility. Genesee County has a population of 428,790 (U.S. Bureau of Census, 2008 Population Estimates). Retail trade, manufacturing and heath care/social assistance are the largest employment sectors in the area, employing approximately 24,000 people each. Other major areas of employment include accommodation and food services, administrative/support services, waste management and remediation services, and wholesale trade (U.S. Bureau of Census, 2002 Economic Census).

2.8 CLIMATE

Lake Michigan and Lake Huron have a moderating effect on the climate of Genesee County. Meteorological data for the Flint Bishop International Airport from the National Climatic Data Center (NCDC, 2009) are summarized as follows:

Temperature (°F)	***January (1973 – 2009)***	***July (1973 – 2009)***
Average Daily Maximum	31.4	83.6
Average Daily Mean	23.3	71.6
Average Daily Minimum	15.2	58.7

The record high and low temperatures recorded between 1973 and 2009 were 101°F and -25°F, respectively.

Precipitation (Inches)	*January (1973 – 2009)*	*July (1973 – 2009)*
Average	1.9	4.4

The total average annual precipitation between 1973 and 2009 was 37.7 inches.

Wind Speed (mph)	*January (1973 – 2009)*	*July (1973 – 2009)*
Average	9.3	6.7
Maximum	38.9	35.9

The annual average wind speed between 1973 and 2009 was 8.2 miles per hour (mph) and the highest measured wind speed was 53.8 mph. The prevailing wind direction is from the west.

2.9 REGIONAL GEOLOGY

2.9.1 OVERBURDEN

The bedrock of Genesee County is covered with glacial deposits. These glacial materials generally thicken from the northwest corner to the southeast corner of the County. Glacial deposits in the northwest corner range between 100 and 150 feet, and increase to 150 to 200 feet in thickness toward the middle of the County. In some small areas in the southeast corner of the County, the glacial cover ranges between 200 and 400 feet in thickness.

Geologic evidence south of Genesee County indicates four major advances of glacial ice in the past 2 million years (during the Pleistocene period). These glacial advances and the interglacial periods between them left complex deposits of till and stratified drift. Because each subsequent advance reworked deposits from previous advances, and because the deposits were derived from the same source, it is difficult to distinguish deposits from each separate advance.

The Huron-Erie and Saginaw lobes of the most recent Wisconsinan glaciation carried clay, silt, sand, gravel, and boulders into what is now Genesee County. These materials

are deposited in many forms such as till plains, lake plains, moraines, outwash, beaches, bars, and deltas.

The surficial deposits in the vicinity of the Facility consist of urban land and soils from the Conover-Brookston and Celina-Conover-Miami, based on information contained in the Soil Survey of Genesee County, Michigan prepared by the United States Department of Agriculture and the Soil Conservation Service. In general, these soil associations are characterized as level to gently sloping, somewhat poorly drained to well drained loams, that have a clay loam subsoil. In combination, the Conover-Brookston and Celina-Conover-Miami soil associations occupy 56 percent of the surficial soils throughout Genesee County.

Figure 2.4 presents the Regional Glacial Drift Surface Deposition information for the area around Flint. The Facility is situated on a terminal or end moraine. Figure 2.5 presents the Regional Glacial Drift Thickness information for the same area depicting the bedrock beneath the Facility to have a glacial cover of 150 to 200 feet.

2.9.2 BEDROCK

The bedrock of Genesee County is composed of evaporites, carbonates, and clastics that are Paleozoic in age, more specifically, Mississippian and Pennsylvanian. These carbonates, clastics, and evaporates were formed in the Michigan Basin.

Figures 2.6 and 2.7 present the Regional Bedrock Geology and Topography information, respectively, for the area around Flint. Three specific bedrock formations can be found beneath the glacial overburden of Genesee County. The Marshall Formation underlies the whole of Genesee County. This formation is Mississippian in age and ranges in thickness from 100 to 150 feet. The Marshall Formation is fine to coarsely grained, gray and white sandstone with some conglomerate, shale, and dolomite beds.

The Michigan Formation (Mississippian) lies on top of the Marshall Formation, and is between 50 and 210 feet thick. The Michigan Formation is predominantly composed of gray shale with some blue or green shale, and intermittent thick beds of gypsum and dolomite.

The uppermost bedrock formation in Genesee County is the Saginaw Formation (Pennsylvanian). The Saginaw Formation is composed of very fine to coarse, sub-rounded to rounded sandstone and is light gray or brownish gray to grayish brown in color. Crossbedding can often be seen in the Saginaw Formation sandstone. If

crossbedding is observed, it is common to see alternating bands of lighter coarse-grained quartz and darker fine-grained quartz. Sandy shale, shale, coal, and limestone are also found in the Saginaw Formation. The shale is frequently thinly bedded, fissile, micaceous, firm to very hard, and gray to dark gray in color.

2.10 REGIONAL HYDROGEOLOGY

Figure 2.8 presents the Regional Glacial Drift Aquifer Characterization information for the area around Flint. Both the glacial overburden and the bedrock in Genesee County have water bearing geologic units. The glacial overburden consists of mainly low permeability tills that are poor sources of groundwater, but some lenses of sand and gravel may provide adequate volumes of water for domestic use. The sandstone beds of the Saginaw and Marshall Formations are the best and most commonly used water bearing hydrogeologic units in Genesee County. This is because of the high yields that can be obtained and because bedrock wells in these formations are well protected by overlying clays and are easily maintained.

Rainfall and subsequent infiltration is the primary source of recharge for the water bearing units in the glacial overburden. These water bearing units are generally hydraulically connected to the surface waters in Genesee County. As a result, dry weather flow for most streams and rivers is supported by groundwater discharge. Further, water levels and groundwater flow directions in the shallow glacial water bearing units are influenced by local drainage areas such as lakes, creeks, and rivers, which act as points of discharge.

The glacial drift water bearing units may also be locally connected hydraulically to the bedrock water bearing zones. Rainfall is the main source of recharge and the upland areas in the southern part of the County act as a regional recharge source. The flow direction in the bedrock conforms to a regional pattern and generally moves from recharge areas toward the Flint River (located north of the Facility), which acts as a general point of groundwater discharge.

The types of material in Genesee County, and their formation are relevant to the potential for aquifer contamination. According to the Hydrogeologic Atlas of Michigan map "Aquifer Vulnerability to Surface Soil Contamination in Michigan", dated 1982, the majority of Genesee County contains moderately or slowly permeable soils over low sensitivity drift material. The Hydrogeologic Atlas of Michigan map "Quaternary Geology of Southern Michigan (upper 1-10 meters)", dated 1982, identifies that these low permeability soils are predominantly comprised of medium textured tills from end

moraines or till plains, lacustrine clays, and lacustrine silts. As a result, groundwater in glacial overburden is generally of limited extent and usability.

Some unconsolidated water bearing units along the Flint River and in the northwest corner of Genesee County are more vulnerable to contamination according to the Hydrogeologic Atlas of Michigan aquifer vulnerability map. The Hydrogeologic Atlas of Michigan quaternary geology map indicates that these areas are primarily glacial outwash sands and gravels, postglacial alluvium, or lacustrine sands and gravels. These units would generally be more capable of producing significant yields of groundwater.

Figure 2.9 presents the Regional Groundwater Flow directions for lower peninsula of Michigan. The groundwater flow beneath the Facility is generally towards the northwest.

2.11 REGIONAL HYDROLOGY

Figure 2.10 presents the Regional River Drainage Basins for the area around Flint. The Flint River runs approximately 40 miles across Genesee County and drains the majority of the County. The average stream flows recorded southwest of the Site at the Flint River gaging station near Flint (gage station #04148500 "Flint River near Flint, MI") ranged from 59 to 9,200 cubic feet per second (cfs) [38 to 5,946 million gallons per day (mgd)], with an average of 338 cfs (251 mgd). The average stream flows recorded east of the Site at the Flint River gaging station near Genesee (gage station #04147500 "Flint River near Otisville, MI") ranged from 2.1 to 7,240 cfs (1.4 to 4,679 mgd), with an average of 763 cfs (493 mgd). These values are based on the minimum of daily mean values and the maximum of daily mean values of the 1970 to 2009 data collected by the United States Geological Survey (USGS), with a USGS year running from October through September (USGS, March 2010).

The Flint River has seven main tributaries: Swartz Creek, Thread River, Kearsley Creek, Butternut Creek, Brent Run, Pine Run, and Armstrong Creek. The Misteguay drainage system and Swartz Creek drain the southwest portion of Genesee County. The Thread River and Kearsley Creek drain the southeast portion of the County. The northeast portion of the County is drained by Butternut Creek. Armstrong Creek, Pine Run, and Brent Run drain the western areas of the County.

3.0 RFI SCOPE OF WORK AND METHODOLOGIES

3.1 RFI SCOPE OF WORK

The Scope of Work for the RFI was comprised of the following tasks:

Task 1: Topographic Survey

Task 2: Groundwater Use Inventory

Task 3: Characterization of Areas of Interest

Task 4: RFI Report

The purpose of sampling activities was to determine whether a significant release of hazardous waste and/or hazardous constituents has occurred at certain AOIs and, if so, to characterize the exposure concentration so that risk-based decisions on the need for interim or corrective measures could be made. RFI activities were completed as outlined below.

3.2 RFI METHODOLOGIES

3.2.1 GENERAL

The RFI was implemented to characterize the nature and extent of Facility-derived constituents at specific AOIs identified in the RFI Work Plans to require further characterization as a result of previous operations and/or releases. The potential chemical constituents and associated soil quality at each AOI were investigated by installing at least two boreholes at each AOI. The borehole locations, borehole depths, number of samples collected, parameters analyzed, and procedures/methodologies utilized to investigate each AOI were presented in the RFI Work Plans and the QAPP, and were based on information presented in the DOCC Report. Additional soil and groundwater investigation was also conducted during a second and third phase of investigation pursuant to the RFI Work Plan Addendum #1 and #2.

The sampling activities for the RFI Work Plan were completed between May 2000 and August 2000. Additional soil delineation in the Building 44 basement was conducted in May 2001 pursuant to the RFI Work Plan Addendum #1. Basement soils that exceeded IDCC were excavated between July 2001 and August 2001 to support basement backfilling. Additional soil delineation at other areas of the Facility was conducted in June 2002 and February 2003 pursuant to the RFI Work Plan Addendum #2. Soils that

exceeded IDCC, PSIC, and/or SVIAIC were excavated in March 2004 and April 2004 as IMs. Additional groundwater sampling and hydrogeological investigation was completed in October 2002 pursuant to the RFI Work Plan Addendum #2.

All subsurface drilling activities were conducted by Altech Drilling Services LLC (Altech) of Southfield, Michigan. Analytical laboratory services were provided by Severn Trent Laboratories (STL) of North Canton, Ohio with the exception of hexavalent chromium analyses conducted in 2000 by STL Richland of Richland, Washington. Surveying activities were completed by Nova Consultants Inc. (Nova) of Novi, Michigan.

The remainder of this section summarizes the field activities and the methodologies utilized during the RFI (as specified in the RFI Work Plan and QAPP). Any deviations from these methodologies are discussed in the subsequent section (Section 4.0), which describes each AOI, and summarizes the AOI-specific RFI investigations.

3.2.2 SOIL BORING AND SOIL SAMPLING

Between May 24, 2000 and June 12, 2000, on July 8, 2000, on August 14, 2000, on May 3, 2001, and between June 26, 2002 and July 3, 2002, Altech completed the drilling program under the direct supervision of CRA. The boreholes were advanced using a drill rig equipped with direct push technology. Boreholes were completed to depths ranging between 2 and 40 feet below ground surface (bgs). All sampling equipment was decontaminated prior to field use and after each sample was collected to prevent cross contamination between samples. Decontamination procedures were consistent with those outlined in the QAPP. Soil boring stratigraphic logs are presented in Appendix D.

3.2.3 SOIL SAMPLE SCREENING AND LABELING

Soil samples collected during the RFI were screened in the field with a photoionization detector (PID) equipped with a 10.2 eV lamp to assess the relative presence and concentrations of volatile organic concentrations within each sample. The field screening activities were conducted in accordance with the specifications outlined in the RFI Work Plan. Upon completion of the sampling activities, boreholes were abandoned with the soil cuttings generated and bentonite chips to grade level.

Soil borings completed during the RFI were designated with a suffix that included the AOI number, the boring number, and the year. For example, the first borehole

completed at AOI 2 in 2000 was designated as BH-2-1-00, while the second borehole was designated as BH-2-2-00. Individual soil samples collected from each borehole were designated to include the sample type (soil "S"), the CRA project number (12636), the collection date (m/d/y), the samplers initials (KMV or DRD), and the sample number (in numerical sequence utilizing a 3-digit code). The duplicate, matrix spike, and equipment blank samples were designated using the same numbering system to prevent laboratory bias of field Quality Control (QC) samples.

3.2.4 SOIL SAMPLE ANALYSIS

After completing the sampling activities, select soil samples from each borehole were submitted for chemical analysis. A surficial sample was generally collected in the 0- to 2-ft bgs interval at each boring location. In cases where there was concrete, asphalt or vegetative debris, the surface sample was collected in the interval beginning directly underneath the surficial obstruction (e.g., the sample depth interval would be 0.5 to 2.5 feet below 6 inches of concrete). Samples being submitted for a volatile organic compound (VOC) analysis were collected below the 6-inch depth interval. The subsurface soil samples selected for analysis were generally collected from the interval exhibiting the most staining or highest PID response. If no staining or PID readings were present, only a surficial sample was collected.

Soil samples selected for chemical analysis were submitted to STL for one or more of the following analyses:

- Target Compound List (TCL) VOCs by U.S. EPA Method 8260B
- TCL semi-volatile organic compounds (SVOCs) by U.S. EPA Method 8270C
- TCL PCBs by U.S. EPA Method 8082
- Target Analyte List (TAL) inorganic constituents (metals) by U.S. EPA Methods 6010B, 6020, and 7471A and hexavalent chromium
- Total cyanide and sulfide by U.S. EPA Methods 9012A and 9030B, respectively
- U.S. EPA Appendix IX VOCs, SVOCs, PCBs (excluding pesticides, herbicides, dioxin, and furans) and/or metals using the same analytical methods referenced above

Duplicate soil samples collected during the investigation were submitted for analysis at a frequency of 1 per 10 investigative samples. One Appendix IX sample was submitted for analysis from both AOI 19 and AOI 20 and two samples were submitted for Appendix IX analysis from AOI 9. The TCL, TAL, and Appendix IX parameter/analyte lists are presented in Tables C.1.2 and Table C.1.3 of the QAPP, respectively

[Appendix C of the RFI Work Plan]. The summary of analytical methods is presented in Table C.7.1 of the QAPP.

Matrix spike or matrix spike duplicate samples collected during the investigation were submitted for analysis at a frequency of 1 per 20 investigative samples. Equipment blank samples (rinsate samples) collected during the investigation were submitted for analysis at a frequency of 1 per 10 investigative samples. Soil sample analytical data is summarized and presented in Section 5.0.

3.2.5 SAMPLE VALIDATION

After receiving the soil sample analytical results from the laboratory, CRA's quality assurance officer completed a data quality assessment and validated the data using evaluation methodologies specified in the QAPP. The Quality Assurance/Quality Control (QA/QC) evaluation included a review of the laboratory blank data, as well as recovery data from matrix and surrogate spikes and check samples. The analytical data was also assessed for accuracy and precision based on the review of the spike recovery data. Analytical data quality assessment and validation reports prepared consistent with the QAPP are presented in Appendix E.

3.2.6 GEOTECHNICAL SAMPLING AND ANALYSIS

Soil samples for grain size analyses and determination of vertical hydraulic conductivity were collected from the four background borehole locations. The geotechnical laboratory report prepared by InspecSol of Mississauga, Ontario is presented in Appendix F.

3.2.7 BOREHOLE LOCATION AND SURVEY

The horizontal coordinates (state plane coordinate system - NAD83 (1994) Michigan South Zone 2113) and vertical elevation (state plane coordinate system - NAVD, 1988) for each borehole were surveyed to the nearest 0.01 feet by Nova.

3.2.8 WASTE HANDLING

Soil cuttings were placed back into the boring from which they were generated. Non-hazardous debris was disposed of with plant trash.

Excess sampling waters were discharged to ground surface in the vicinity of the monitoring well from which they were generated. The purge waters generated during pumping tests were containerized pending receipt of sample results and discharged to the ground surface after sample results were found to be below Michigan Act 451, Part 201 generic residential drinking water criteria.

3.2.9 GROUNDWATER SAMPLING

As specified in the RFI Work Plan, groundwater samples were to be collected at each AOI if a significant groundwater aquifer was encountered during the soil boring program. The monitoring wells were to be installed if the native porous media encountered throughout the AOI was greater than 5 feet thick and the zone of saturation was greater than 2 feet thick. The monitoring wells were to be developed, purged, and sampled for TCL/TAL constituents. However, as identified in Section 2.5 of this RFI Report (and consistent with previous investigations), the subsurface soils at the Facility are predominately glacial clay tills. As a result, a continuous surficial groundwater bearing unit was not encountered immediately below any of the AOIs. Therefore, groundwater monitoring wells were not installed and groundwater samples were not collected from the boring locations during the first phase of the RFI investigation.

As specified in the RFI Work Plan, five existing monitoring wells (MW-3, MW-4, MW-10, MW-13, and PFW-9) at the Facility were resampled on June 7, 2000. Groundwater samples were submitted to STL for one or more of the following chemical analyses:

- TCL VOCs by U.S. EPA Method 8260B
- Dissolved Lead by U.S. EPA Method 6010B

As specified in the RFI Work Plan Addendum #2, on October 16, 2002, three existing monitoring wells (MW-3, PFW-9, PFW-10) for analysis of dissolved lead, and monitoring well PFW-10 for analysis of dissolved barium.

3.2.10 HYDROGEOLOGIC INVESTIGATION

As specified in the RFI Work Plan Addendum #2, CRA installed four shallow overburden wells in the vicinity of PFW-1 on June 27, 2002. The sand pack of each well was placed straddling isolated silty sand seams identified between 10 to 15 feet bgs. No

continuous surficial water bearing unit was identified. The monitoring well screens were developed by removal of five standing well volumes or until the well went dry.

Single well response tests were conducted on October 15, 2002 at monitoring wells MW-1-02, MW-2-02, MW-3-02, MW-4-02, MW-3, DSA_MW-1 (historically referred to as MW-OBG), PFW-9, and PFW-10. A step-drawdown test was conducted on October 7, 2002 at monitoring well PFW-1. A constant rate pumping test was performed between October 8-9, 2002 at PFW-1 while measuring water levels at monitoring wells MW-1-02, MW-2-02, MW-3-02, MW-4-02, MW-1, MW-3, DSA_MW-1, PFW-2, PFW-9, PFW-10, PFW-11, B-9, B-22D, and B-23D.

4.0 RFI INVESTIGATION SUMMARY

This section presents a summary of the RFI investigations which included the following tasks:

Task 1: Topographic Survey
Task 2: Groundwater Use Inventory
Task 3: Characterization of Areas of Interest
Task 4: RFI Report

4.1 TASK 1: TOPOGRAPHIC SURVEY

A topographic survey was completed by Nova to support the tracking of all RFI activities. This task included aerial photography in March 2000 (Figure 1.3) and a "ground truthing" survey to establish a new base plan for the Facility (Plan 1). This task serves as the basis for all of the figures and plans presented in this Report. The horizontal coordinates (state plane coordinate system - NAD83 (1994) Michigan South Zone 2113) and vertical elevation (state plane coordinate system - NAVD 1988) for each borehole were surveyed to the nearest 0.01 foot by Nova.

4.2 TASK 2: GROUNDWATER USE INVENTORY

Groundwater use inventories were completed to identify all groundwater users within the vicinity of an approximately 1.5-mile radius of the Facility. A groundwater use survey was conducted for a 1-mile radius of the Facility by contacting the MDEQ GSD on June 28, 2000. An additional groundwater use inventory was subsequently completed for a 1.5-mile radius of the Facility and additional well records were obtained from the MDEQ and the Genesee County Health Department. The well logs identified during these surveys are presented in Appendix G.

Further to the additional well inventory searches, the City of Mount Morris, Charter Township of Mount Morris, Charter Township of Genesee, and Beecher Metropolitan District Department of Sewer and Water were contacted in order to determine addresses within 1.5 miles of the Facility that are not connected to a city/township water supply and/or do not receive a water bill. Of the 216 addresses which were found to have a water well record, one was found to receive a water bill. In addition to the 216 addresses for which a water well record was found, 111 additional addresses that

are not connected to a city/township water supply and/or do not receive a water bill were encountered.

4.3 TASK 3: CHARACTERIZATION OF AREAS OF INTEREST

The historical and RFI investigations were conducted at the Facility as part of the property transfer from GM to Peregrine in December 1996. Historical data is presented in Appendix B. The historical investigations provided information regarding the SWMUs and AOCs identified by TechLaw during the PA/VSI as well as other AOIs identified in the DOCC Report.

This section presents a description of each of the 12 AOIs (AOI 2, AOI 8, AOI 9, AOI 11, AOI 12, AOI 13, AOI 14, AOI 17, AOI 18, AOI 19, AOI 20, and AOI 21) that were determined to require additional investigation in the RFI Work Plans; a summary of the AOI-specific investigation activities (Table 4.1); and a summary of the soil, groundwater and QA/QC samples collected at each location (Tables 4.2, 4.3, and 4.4). AOIs 4, 5, 6, 7, 10, 15, 16, and 22 did not require additional subsurface investigation as discussed in the RFI Work Plan. AOI 1 was discussed in the Closure Certification Report for the Former Drum Storage Area, submitted under and separate cover and approved by the MDEQ in their letter dated March 24, 2005. Results for AOI 1 are presented in Appendix B.

This section also summarizes the additional soil investigations completed at the former waste oil USTs (AOI 3); the soil delineation and excavation activities completed due to exceedances of generic industrial criteria in the former basement (AOI 9), the former chrome plating area (AOI 9), the former zinc plater (AOI 9), the former waste pile pad (AOI 2), and the former coal storage area (AOI 11); and the scope of the groundwater sampling and hydrogeologic investigation conducted in June 2000 and October 2002.

The locations of the boreholes completed during the RFI are presented Plan 2.

4.3.1 AOI 2 – FORMER WASTE PILE PAD

A. AOI 2 DESCRIPTION

The Former Waste Pile Pad (AOI 2) was located east of Building 44 and approximately 100 feet north-northeast of Building 63. The area consisted of a concrete pad measuring 60 feet by 40 feet, with an underground drainage trench connected to an adjacent collection sump which discharged to the former WWTP (the connection was rerouted to

the former Wastewater Storage Tanks (AOI 6) during Peregrine operations). This drainage trench was oriented north/south along the center of the long axis of the pad. The unit had a 1.5-foot high curb on the east side and the concrete floor was sloped to direct runoff to the underground drainage system.

The Former Waste Pile Pad was determined to be clean (Weston, 1999), as verified by a program of rinse water sampling and analyses performed following removal of contaminated soils and sludge as specified in the approved Closure Plan. Subsequent use of this area was reported by Peregrine to not involve hazardous materials.

B. AOI 2 INVESTIGATION SUMMARY

On May 26, 2000, CRA supervised the installation of four investigative boreholes in the vicinity of AOI 2. Two of the four boreholes (BH-2-2-00 and BH-2-3-00) were completed on the west side of the Former Waste Pile Pad. The remaining boreholes (BH-2-1A-00 and BH-2-1-00) were completed on the east side of the Former Waste Pile Pad. Borehole BH-2-1A-00 was terminated at 12 ft bgs due to borehole refusal. It was replaced by borehole BH-2-1-00, which was completed approximately 10 feet to the northeast. Boreholes BH-2-1-00 and BH-2-2-00 were advanced to 25 ft bgs and borehole BH-2-3-00 was advanced to 15 ft bgs. After completing the sampling activities, all borings were abandoned with bentonite chips and cuttings.

Four soil samples collected from AOI 2 were submitted for laboratory analysis. These included one sample from each borehole (except BH-2-1A-00, which hit refusal at 12 ft bgs and was replaced by BH-2-1-00) and a duplicate from BH-2-1-00. The soil samples selected for chemical analysis were collected from near surface intervals using the criteria specified in the RFI Work Plan. The four soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium).

On June 27, 2002, CRA supervised the installation of four delineation boreholes surrounding BH-2-3-00. BH-2-6-02, BH-2-2-02, BH-2-7-02, and BH-2-3-02 are located at a distance of 10 feet from BH-2-3-00 to the north, east, south and west, respectively. Each delineation borehole was advanced to 6 ft bgs. In addition, four contingency boreholes BH-2-5-02, BH-2-1-02, BH-2-8-02, and BH-2-4-02 are located at a distance of 30 feet from BH-2-3-00 to the north, east, south, and west, respectively.

Two soil samples (0 to 2 ft bgs and 4 to 6 ft bgs) were collected from each delineation borehole and submitted for laboratory analysis. The five soil samples collected from 0 to 2 ft bgs at BH-2-6-02, BH-2-2-02, BH-2-7-02, and BH-2-3-02 (including the duplicate

sample at BH-2-2-02) were analyzed for arsenic. The remaining samples were not analyzed because the first set of samples were below generic industrial criteria. The delineation soil sample results were submitted to MDEQ in the "Delineation Soil Sample Results" letter, presented in Appendix H.

In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-2-3-00 was excavated to a depth of 2 ft bgs. The excavation extended to the delineation samples (which served as the verification samples for the excavation). The excavated material was properly disposed off-site at a licensed facility.

4.3.2 AOI 8 – FORMER SCRAP METAL STORAGE AREA

A. AOI 8 DESCRIPTION

The Former Scrap Metal Storage Area was located indoors in the northwest-central portion of Building 63. It was comprised of a series of five in-ground concrete storage bins measuring approximately 8 feet by 10 feet by 10 feet deep.

Peregrine previously filled the five concrete storage bins with gravel and covered them with concrete. As part of the environmental decommissioning activities, the concrete cap was demolished and the gravel was removed. The pits were then cleaned and inspected. Finally, the base of the pits were broken and the subsurface conditions were inspected. No visual staining, PID readings, or odors were identified below the pit bottom. The clean gravel removed from the pits was segregated from the stained gravel. The pits were subsequently backfilled with the clean removed gravel and clean sand. The stained backfill materials removed from the concrete bins were characterized for disposal.

The concrete bin sample locations are presented on Figure I.1, located in Appendix I. The analytical waste characterization data for this material is presented in Table I.1. Ten backfill samples of the stained gravel were collected and analyzed for TCLP VOCs, TCLP SVOCs, TCLP metals, and PCBs. One of the samples was found to be hazardous for chromium and lead. All other concentrations were found to be below regulatory limits. The photographs illustrating AOI 8 and the decommissioning of the concrete bins are presented on Figure I.2 and I.3.

B. AOI 8 INVESTIGATION SUMMARY

On June 2, 5, and 6, 2000, CRA supervised the installation of seven investigative boreholes in the vicinity of AOI 8. Five of the seven boreholes were completed in the Former Scrap Metal Storage Area in Building 63 immediately adjacent to the former scrap metal collection bins (BH-8-1A-00, BH-8-1-00, BH-8-2-00, BH-8-3-00, and BH-8-3A-00). Borehole BH-8-4-00 was also completed inside Building 63 but south of the Former Scrap Metal Storage Area. Borehole BH-8-5-00 was completed outside of the south end of Building 63. Due to refusal, BH-8-1-00 and BH-8-3-00 could not be completed consistent with the RFI Work Plan. These boreholes were replaced by boreholes BH-8-1A-00 and BH-8-3A-00, respectively. Each of these were completed approximately 10 feet to the east of BH-8-1-00 and BH-8-3-00, respectively. All boreholes were advanced to a depth of between 10 and 15 ft bgs. The locations of the boreholes in relation to the concrete bins at AOI 8 are presented on Figure I.1.

Seven soil samples collected from AOI 8 were submitted for laboratory analysis. This included two soil samples from BH-8-1A-00, one soil sample from each of the remaining six sampling locations (except for BH-8-1-00 and BH-8-3-00), and a duplicate sample from BH-8-2-00. The soil samples selected for chemical analysis were collected from near surface intervals using the criteria specified in the RFI Work Plan. The additional selected sample from BH-8-1A-00 was collected between 5 and 7 ft bgs. The samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium), with the exception of the sample from BH-8-4-00, which was analyzed for TCL VOCs and TAL inorganics (including both total and hexavalent chromium).

4.3.3 AOI 9 - FORMER PLATING AREAS

A. AOI 9 DESCRIPTION

The Former Plating Areas comprised three separate areas in Building 44. The zinc barrel plating area was located toward the southeast end of the first floor, the chrome plating area was located toward the north end of the first floor, and the plating solution recycling area was located in the basement.

The majority of the platers were decommissioned between approximately 1967 and 1983 through cleaning/rinsing and removal from the Facility (refer to Section 2.3.3 of DOCC Report). The pits, sumps, and trenches associated with the plater removals were backfilled with sand and covered with concrete, except for the former zinc barrel plater

(near the south end of Building 44) which was demolished as part of building demolition in 2000.

B. AOI 9 INVESTIGATION SUMMARY

On June 5, 6, 7, and 12, 2000, CRA supervised the installation of 62 investigative boreholes within AOI 9. Thirty-two of these boreholes were unsuccessful attempts at borehole completion. In the event of refusal, the borehole location was offset until successful completion was obtained. In the case of borehole locations BH-9-13-00, BH-9-14-00, and BH-9-21-00, a tracked excavator with a concrete breaker was required for borehole completion. These boreholes were completed on July 8, 2000.

Forty-three soil samples collected from 33 boreholes within AOI 9 were submitted for laboratory analysis. This included at least one soil sample from each sampling location where borehole completion was possible. Duplicate samples were collected from boreholes BH-9-2-00 (0.5 to 2.5 ft bgs), BH-9-3-00 (1.5 to 3.5 ft bgs), BH-9-4-00 (0.5 to 2.5 ft bgs), BH-9-7-00 (0.5 to 2.5 bgs), BH-9-9-00 (0.5 to 2.5 ft bgs), BH-9-11-00 (0.33 to 2.33 ft bgs), and BH-9-16B-00 (0.66 to 2.66 ft bgs). Forty-one of the 43 soil samples submitted to the laboratory were analyzed for TCL VOCs and TAL inorganics (including both total and hexavalent chromium). The samples collected from BH-9-14D-00 (0.83 to 2.83 ft bgs) and BH-9-24-00 (0.66 to 2.66 ft bgs) were analyzed for the modified Appendix IX constituents as outlined the RFI Work Plan.

On April 23, 2001, an attempt was made to begin borehole installation at BH-4D-01, BH-5C-01, BH-6D-01, BH-6E-01, and BH-26B-01. Refusal was encountered at depths of 1.7 to 2.3 ft bgs, and existing rain water in the basement made it unfavorable to attempt any additional locations at the time.

In May 2001, CRA supervised the installation of four delineation boreholes surrounding BH-9-26-00, four contingency boreholes surrounding BH-9-25-00, and 21 additional boreholes at random locations through the basement floor slab. BH-26A-01, BH-26C-01, BH-26B-01, and BH-26D-01 were located between 2 and 15 feet from BH-9-26-00 to the north, east, south and west, respectively. BH-25A-01, BH-25B-01, BH-25D-01, and BH-25C-01 were located at a distance of 10 feet from BH-9-25-00 to the northeast, southeast, southwest and northwest, respectively. One sample was collected from each borehole and submitted for laboratory analysis. The four soil samples collected in the vicinity of BH-9-26-00 and one sample collected at BH-6-E-01 were analyzed for VOCs and metals.

On June 13, 2001, a spot excavation (21 feet x 19 feet x 6 feet deep) was completed in the vicinity of BH-9-26-00. A total of 90 cubic yards was excavated, characterized as non-hazardous waste, and disposed at the Brent Run Landfill. Two base (Base 1 and Base 2) verification samples were collected and submitted for laboratory analysis. The delineation samples surrounding BH-9-26-00 were used as sidewall verification samples. A summary of the basement delineation and excavation activities is presented in Appendix J.

On June 26, 2002, CRA supervised the installation of eight delineation boreholes surrounding K-35 and four delineation boreholes surrounding each of BH-9-23-00 and BH-9-24-00. BH-9-14-02, BH-9-10-02, BH-9-15-02, and BH-9-11-02 were located at a distance of 10 feet from K-35 to the north, east, south and west, respectively. In addition, four contingency boreholes BH-9-13-02, BH-9-12-02, BH-9-16-02, and BH-9-9-02 were located at a distance of 30 feet from K-35 to the north, east, south, and west, respectively. BH-9-4-02, BH-9-1-02, BH-9-2-02 and BH-9-3-02 were located at a distance of 10 feet from BH-9-23-00 to the north, east, south, and west, respectively. BH-9-7-02, BH-9-8-02, BH-9-5-02, and BH-9-6-02 were located at the outer limits of the former zinc plater in the vicinity of BH-9-24-00 to the north, east, south, and west, respectively. It should be noted that a laboratory error attributed the chromium result from BH-9-26-00 to BH-9-24-00; however, it was later determined that concentrations at BH-9-24-00 did not exceed applicable generic industrial criteria (as a result BH-9-7-02, BH-9-8-02, BH-9-5-02, and BH-9-6-02 were not required). Each delineation borehole was advanced to 6 feet below the concrete (i.e., 0.5 to 6.5 ft bgs) with the exception of BH-9-13-02, which hit refusal at 4.5 ft bgs.

Two soil samples were collected from each delineation borehole (from 0 to 2 feet and 4 to 6 feet below concrete) and submitted for laboratory analysis. The four soil samples collected from the 0- to 2-foot interval at BH-9-14-02, BH-9-10-02, BH-9-15-02, and BH-9-11-02, in the vicinity of K-35 were analyzed for lead. The four soil samples collected from the 0- to 2-foot interval in the vicinity of BH-9-23-00 were analyzed for 1,1-dichloroethene. The four soil samples collected from the 0- to 2-foot interval in the vicinity of BH-9-24-00 were analyzed for hexavalent chromium. The remaining samples were not analyzed because the first set of samples were below generic industrial criteria. The delineation soil sample results were submitted to the MDEQ in the "Delineation Soil Sample Results" letter, presented in Appendix H.

In April 2004, an area (20 feet x 20 feet) in the vicinity of each of K-35 and BH-9-23-00 was excavated to a depth of 2 feet below the concrete (2.5 ft bgs). The excavations extended to the delineation samples in each area.

4.3.4 AOI 11 – FORMER COAL STORAGE AREA

A. AOI 11 DESCRIPTION

The Former Coal Storage Area was comprised of a relatively large area located to the north of the powerhouse (Building 45).

The Former Coal Storage Area was inactive during the RFI, and residual coal was removed from the area as part of the environmental decommissioning and demolition efforts. Additional removal of coal fines from the vicinity of the former powerhouse was completed in June 2002. The MDEQ was notified of the removal in the "Quarterly Progress Report #8" (REALM, June 28, 2002) and additional discussion is presented in the IM Report, submitted under a separate cover.

B. AOI 11 INVESTIGATION SUMMARY

On May 30, 2000, CRA supervised the installation of five investigative boreholes in the vicinity of AOI 11. The five boreholes (BH-11-1-00 through BH-11-5-00) were advanced to depths of 20, 15, 20, 25, and 10 ft bgs, respectively.

Seven soil samples collected from AOI 11 were submitted for laboratory analysis. This included at least one soil sample from each of the five sampling locations. Additionally, a second soil sample was submitted from borehole BH-11-3-00 and a duplicate sample was submitted from BH-11-3-00. The soil samples selected for analysis were collected between 1 and 4.5 ft bgs with the exception of the second sample taken from borehole BH-11-3-00 (8 feet 4 inches to 9 feet 9 inches bgs). The seven soil samples submitted to the laboratory were analyzed for TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium).

On June 27, 2002, CRA supervised the installation of eight delineation boreholes surrounding BH-11-1-00. BH-11-6-02, BH-11-1-02, BH-11-7-02, and BH-11-4-02 were located at a distance of 10 feet from BH-11-1-00 to the north, east, south, and west, respectively. In addition, four contingency boreholes BH-11-5-02, BH-11-2-02, BH-11-8-02, and BH-11-3-02 were located at a distance of 30 feet from BH-11-1-00 to the north, east, south, and west, respectively. Each delineation borehole was advanced to 6 ft bgs.

Two soil samples were collected from each delineation borehole (from 0 to 2 ft bgs and 4 to 6 ft bgs) and submitted for laboratory analysis. The four soil samples collected from

0 to 2 ft bgs at BH-11-6-02, BH-11-1-02, BH-11-7-02, and BH-11-4-02 were analyzed for arsenic. The remaining samples were not analyzed because the first set of samples were below generic industrial criteria. The delineation soil sample results were submitted to MDEQ in the Delineation Soil Sample Results letter, presented in Appendix H.

In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-11-1-00 was excavated to a depth of 4.5 ft bgs. The excavation extended to the delineation samples.

4.3.5 AOI 12 –FORMER CAUSTIC TANKS

A. AOI 12 DESCRIPTION

Eleven aboveground steel tanks, each approximately 4 feet by 6 feet by 6 feet, were previously located immediately west of the Former Drum Storage Area (AOI 1) along the north side of Building 44. All of the tanks were located on asphalt and were covered. The tanks were used to collect caustic cleaning solutions from a former metal cleaning process.

The Former Caustic Tanks were removed as part of environmental decommissioning and demolition activities at the Facility.

B. AOI 12 INVESTIGATION SUMMARY

On May 30, 2000, CRA supervised the installation of two investigative boreholes in the vicinity of AOI 12 at the north end of Building 44. The two boreholes (BH-12-1-00 and BH-12-2-00) were advanced to 10 ft bgs.

Three soil samples from AOI 12 were submitted for laboratory analysis. This included one soil sample from each location plus a duplicate sample from BH-12-2-00. The soil samples from the boreholes were collected from 0.5 to 2.5 ft bgs. The three soil samples submitted to the laboratory were analyzed for pH, TCL VOCs, TCL SVOCs, TCL PCBs, and hexavalent chromium.

4.3.6 AOI 13 – FORMER HEADLINER ADHESIVE TANKS

A. AOI 13 DESCRIPTION

The Former Headliner Adhesive Tanks (AOI 13) were located in a tank farm east of Building 44. There were eight stainless steel tanks, each about 30 feet high by 8 feet in diameter (approximately 8,000-gallon capacity each), with secondary containment (provided by an approximate 2-foot concrete curb).

During the removal of Tank 6, and the piping associated with the tanks, Tank 6 (known as the green adhesive tank) was found to contain a small quantity of solidified material. The material in the piping was sampled and found to be characteristically hazardous based on toxicity (benzene) and flammability. GM completed the removal of the green adhesive tank and associated piping in 1997. The other seven Former Headliner Adhesive Tanks were found to be clean and were properly decommissioned and removed as part of the decommissioning and demolition activities completed at the Facility.

B. AOI 13 INVESTIGATION SUMMARY

On May 30, 2000, CRA supervised the installation of two investigative boreholes in the vicinity of AOI 13. Borehole BH-13-1-00 and BH-13-2-00 were completed on the north and south perimeter of the tank area, respectively. Boreholes BH-13-1-00 and BH-13-2-00 were advanced to 15 and 10 ft bgs, respectively.

One soil sample from each borehole at AOI 13 was submitted for laboratory analysis. The soil samples from the boreholes were collected from the surface. The two soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, and TCL PCBs.

4.3.7 AOI 14 - FORMER INCINERATOR

A. AOI 14 DESCRIPTION

The Former Incinerator was located east of the powerhouse (Building 45). It was demolished during the 1980s.

B. AOI 14 INVESTIGATION SUMMARY

On May 31, 2000, CRA supervised the installation of two investigative boreholes in the vicinity of AOI 14. Boreholes BH-14-1-00 and BH-14-2-00 were advanced to 10 and 15 ft bgs, respectively.

One soil sample from each borehole at AOI 14 was submitted for laboratory analysis. The soil samples from the boreholes were collected from 0.5 to 2.5 ft bgs. The two soil samples submitted to the laboratory were analyzed for TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium).

4.3.8 AOI 17 - SUBSTATION DRAINAGE SUMP

A. AOI 17 DESCRIPTION

The Substation Drainage Sump was located to the northeast of Building 63. The electrical substation area contained several large transformers. Stormwater runoff from the uncovered substation area collected in the sump located in the basement of the adjacent substation building and was historically pumped to the Former WWTP.

The sump was cleaned, the sump bottom was broken, the underlying soil was inspected, and the sump was backfilled as part of decommissioning and demolition activities completed at the Facility.

B. AOI 17 INVESTIGATION SUMMARY

On May 31, 2000, CRA supervised the installation of three investigative boreholes at AOI 17 immediately adjacent to the substation drainage sump. Borehole BH-17-2A-00 was terminated at 5 ft bgs due to an obstruction. It was replaced by borehole BH-17-2-00, which was completed approximately 5 feet west of BH-17-2A-00. Boreholes BH-17-1-00 and BH-17-2-00 were advanced to 20 and 25 ft bgs, respectively.

Four soil samples from AOI 17 were submitted for laboratory analysis. This included one soil sample from each borehole (BH-17-1-0, BH-17-2-0, and BH-17-2A-00) plus a second sample from BH-17-1-00. The soil samples from the boreholes were collected from the surface with the exception of the second sample collected from BH-17-1-00 (8 to 9 ft bgs). The four soil samples submitted to the laboratory were analyzed for TCL SVOCs and TCL PCBs.

4.3.9 AOI 18 – FORMER INACTIVE EQUIPMENT RESERVE YARD

A. AOI 18 DESCRIPTION

The Former Inactive Equipment Reserve Yard was located east of Building 63 and was used to store dies and obsolete equipment.

Stormwater from the Former Inactive Equipment Reserve Yard formerly drained to the sanitary sewer. This connection was abandoned in December 2002 by flowfilling the manhole and sewer line. The MDEQ was notified of the sanitary sewer abandonment in the "Quarterly Progress Report #10" (REALM, January 9, 2003). Sanitary sewer discharges were discontinued after the demolition of AOI 18.

B. AOI 18 INVESTIGATION SUMMARY

On May 31, 2000 and June 1, 2000, CRA supervised the installation of four investigative boreholes in the vicinity of AOI 18. Boreholes BH-18-1-00 and BH-18-2-00 were advanced to 15 and 30 ft bgs, respectively. Both boreholes BH-18-3-00 and BH-18-4-00 were advanced to 10 ft bgs.

Seven soil samples from AOI 18 were submitted for laboratory analysis. This included one soil sample from BH-18-1-00 to BH-18-4-00, a duplicate from BH-18-2-00, a second sample from BH-18-2-00, and a second sample from BH-18-4-00. The soil samples from the boreholes were collected from the surface with the exception of the second sample collected from BH-18-2-00 (20 to 21 ft bgs) and the second sample collected from BH-18-4-00 (5 to 6 ft bgs). The seven soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium).

4.3.10 AOI 19 - FORMER PRESS ROOM

A. AOI 19 DESCRIPTION

The Building 44 Former Press Room pits were also discussed under AOI 7 and AOI 8 of the DOCC Report. However, AOI 19 addresses these and other miscellaneous pits and sumps in the Former Press Room.

Many of the sumps associated with the press room pits were filled with gravel/concrete by Peregrine prior to leaving the Facility.

Each of the sumps and pits that were previously capped by Peregrine were re-evaluated. The sump locations are presented on Figure K.1, located in Appendix K. The concrete cap was demolished and the gravel was removed. The pits were then cleaned and inspected. Finally, the bases of the pits were broken and the subsurface conditions were inspected. No visual staining, PID readings, or odors were identified below the pit bottoms. Photos illustrating AOI 19 and the decommissioned pits, trenches, and sumps are presented on Figures K.2 through K.7.

In addition, all of the backfilled materials removed from the pits were characterized for disposal. Three oil and seven sludge samples were collected and analyzed for TCLP VOCs, TCLP SVOCs, TCLP metals, and PCBs. The materials were found to be non-hazardous and PCBs were not detected. The sampling and analysis plan and resulting data are presented in Appendix K.

B. AOI 19 INVESTIGATION SUMMARY

On June 2, 2000 and 5, 2000, CRA supervised the installation of eight investigative boreholes (BH-19-1-00 through BH-19-8-00) in AOI 19. Borehole BH-19-4-00 was advanced to 25 ft bgs. Boreholes BH-19-1-00 and BH-19-8-00 were advanced to 15 ft bgs. Boreholes BH-19-2-00, BH-19-3-00, and BH-19-5-00 through BH-19-7-00 were advance to 10 ft bgs. The location of the sample locations in relation to the pits, trenches, and sumps in AOI 19 is presented on Figure K.1.

Eleven soil samples from AOI 19 were submitted for laboratory analysis. This included one soil sample from each location, one duplicate sample from BH-19-1-00, a second sample from BH-19-4-00, and a second sample from BH-19-6-00. The soil samples from the boreholes were collected from the surface with the exception of the second samples collected from BH-19-4-00 (5.5 to 6.5 ft bgs) and BH-19-6-00 (9 to 10 ft bgs). Ten soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium). One sample (BH-19-2-00, 0.5 to 2.5 ft bgs) was analyzed for the modified Appendix IX constituents as outlined in the RFI Work Plan.

4.3.11 AOI 20 – FORMER TOOL ROOM

A. AOI 20 DESCRIPTION

The Former Tool Room on the first floor of Building 44 previously contained a small solvent-based degreaser, an air wash unit, and die wash station.

The Former Tool Room air wash unit was cleaned by GM and removed from the Facility. The remaining portions of the Former Tool Room area were generally vacant at the time of the RFI and have since undergone decommissioning and demolition.

B. AOI 20 INVESTIGATION SUMMARY

On June 1, 2000, CRA supervised the installation of four investigative boreholes (BH-20-1-00 through BH-20-4-00) in the vicinity of AOI 20 (Plan 2). Boreholes BH-20-1-00, BH-20-2-00, and BH-20-4-00 were advanced to 10 ft bgs. Borehole BH-20-3-00 was advanced to 15 ft bgs.

Five soil samples from AOI 20 were submitted for laboratory analysis. This included one soil sample from each location plus a second sample from BH-20-2-00. The soil samples from the boreholes were collected from the surface with the exception of the second sample collected from BH-20-2-00 (7 to 8 ft bgs). Four soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TAL inorganics (including both total and hexavalent chromium). The fifth sample (BH-20-1-00, 0.33 to 2.33 ft bgs) was analyzed for the modified Appendix IX constituents as outlined in the RFI Work Plan.

4.3.12 AOI 21 – POWERHOUSE FUEL OIL STORAGE TANKS

A. AOI 21 DESCRIPTION

Four aboveground fuel oil storage tanks with secondary containment were formerly located north of the powerhouse. Three of the tanks (250-gallon each) were previously removed. The final tank was removed as part of the powerhouse decommissioning and demolition.

B. AOI 21 INVESTIGATION SUMMARY

On May 31, 2000, CRA supervised the installation of two investigative boreholes (BH-21-1-00 and BH-21-2-00) in the vicinity of AOI 21. Boreholes BH-21-1-00 and BH-21-2-00 were advanced to 20 and 25 ft bgs, respectively.

Three soil samples from AOI 21 were submitted for laboratory analysis. This included one surface soil sample from two locations plus a second soil sample collected from BH-21-1-00 at a depth of 18 to 19 ft bgs. The soil samples submitted to the laboratory were analyzed for TCL VOCs, TCL SVOCs, and TAL inorganics (including both total and hexavalent chromium).

4.3.13 NON-SPECIFIC SAMPLING LOCATIONS: SOIL SAMPLING

A supplemental soil investigation was also completed at the Former Waste Oil USTs at AOI 3 to address Act 451, Part 213 closure documentation requirements. A total of nine soil samples were collected from BH-3-1-00 to BH-3-8-00, including one duplicate sample from BH-3-3-00. Soil samples were analyzed for selected VOCs, selected metals, and PCBs.

4.3.14 NON-SPECIFIC SAMPLING LOCATIONS: PERCHED WATER SAMPLING

Sampling during historical investigations identified exceedances of Michigan Act 451, Part 201 drinking water criteria in perched water samples from nine monitoring well locations. Although these monitoring wells were not installed to investigate specific AOIs, for the purposes of data evaluation in Section 5.3.5, they have been assigned to the nearest AOI, as follows:

- MW-3 - AOI 18
- MW-4 - AOI 15
- MW-10 - AOI 15
- MW-13 - AOI 2
- MW-14 - AOI 1
- DSA_MW-01 - AOI 1
- PFW-1 - No AOI
- PFW-9 - AOI 14
- PFW-10 - AOI 7

As part of the RFI, perched water samples were collected from MW-3, MW-4, MW-10, MW-13, and PFW-9 in June 2000 and analyzed for the constituent(s) that had exceeded Michigan Act 451, Part 201 drinking water criteria in historical samples. A second round of perched water samples were collected from MW-3, PFW-9, and PFW-10 in October 2002 and results were submitted to MDEQ in the Second Round Groundwater Sampling (Appendix L).

DSA_MW-01 and MW-14 groundwater data was discussed in the Closure Certification Report for the Former Drum Storage Area, submitted under and separate cover and approved by the MDEQ in their letter dated March 24, 2005.

4.3.15 NON-SPECIFIC SAMPLING LOCATIONS: DRIFT AQUIFER WATER SAMPLING

Groundwater samples were collected from the drift aquifer at PFW-1 as part of the constant-rate pumping test in October 2002 and analyzed for VOCs and dissolved lead.

4.4 TASK 4: RFI REPORT

The Draft RFI Report was submitted to the MDEQ on November 20, 2000 presenting the first phase of RFI investigation results. This document constitutes the revised RFI Report which also presents the results of subsequent investigations conducted in response to MDEQ comments dated March 29, 2001.

5.0 RESULTS OF RFI

This section presents the results of the RFI which included the following tasks:

Task 1: Topographic Survey

Task 2: Groundwater Use Inventory

Task 3: Characterization of Areas of Interest

Task 4: RFI Report

5.1 TASK 1: TOPOGRAPHIC SURVEY

The topographic survey was based upon aerial photography (Figure 1.3) and ground surveying to state plane coordinates (NAD83 (1994) Michigan South Zone 2113) and completed between March 2000 and August 2000.

5.2 TASK 2: GROUNDWATER USE INVENTORY

The Beecher Metropolitan District provides the water supply for the City of Flint from five wells (wells 3, 4, 5, 6, and 7). Figure D.1 presents the location of the Beecher water supply wells. Four of the wells are completed within the overburden water-bearing zone at depths of approximately 125, 130, 100, and 89 ft bgs for wells 4, 5, 6, and 7, respectively. The fifth well, well 3, is completed within the bedrock aquifer at a depth of approximately 350 ft bgs. All five wells are located more than 1 mile west of the Facility.

Residential well records are presented in Appendix G. Figure G.1 presents the location of the residential wells identified within a vicinity of approximately 1.5 miles of the Facility. A summary of the residential wells identified within a radius of 1.5 miles of the Facility is presented in Table G.1. The nearest residential wells are located on Clovis (west), Stanley Road (north), and Lewis Road and Dort Highway (east). These wells are typically completed in the bedrock and are protected by overlying clay till aquitards.

5.3 TASK 3: CHARACTERIZATION OF AREAS OF INTERESTS

5.3.1 LOCAL TOPOGRAPHY

The local topography of the Facility is presented on Figure 1.1. The Facility is located on a terminal moraine which is a local topographic high in an area that is generally flat.

There are no rivers, streams, or surface water bodies located within the Facility's property boundaries. Surface water drainage at the Facility is generally toward a low area, which occupies the northwest corner of the adjacent MLC property, to the north of the Facility. The southernmost boundary of the Facility, south of the former location of Building 44, slopes toward Coldwater Road.

5.3.2 SITE GEOLOGY

The stratigraphy encountered at the Facility generally consists of a relatively thin (approximately 0 to 10 feet) silt/silty sand unit. A low permeability clay till unit underlies the surficial silty sand unit. The specific stratigraphy encountered at each borehole is presented on the soil boring logs presented in Appendix D. Table 5.1 provides a borehole completion summary. Since the geologic conditions encountered did not meet the monitoring well screening requirements specified in the RFI Work Plan (i.e., 5 feet of porous media, 2 feet saturated, continuous horizontally), no monitoring wells were set in soil borings installed in AOIs.

Borings in the vicinity of the northeastern portion of the Facility consisted primarily of five feet of silty sand with the exception of the borings located in the vicinity of the coal storage area and in the vicinity of Building 44. The silty sand unit at the coal storage area consisted of a mixture of silt/silty sands and coal to an approximate depth of seven to 12 ft bgs. (Coal fines were removed from this area in June 2002.) Borings in the vicinity of Building 44 consisted of fine-grained sands to an approximate depth of 2 ft bgs.

The silty sand unit is underlain by a glacial clay till unit. The clay till unit was identified to extend to a depth of at least 30 feet at the background boring locations (the maximum depth at which the borings were completed during the current RFI sampling program). Boreholes completed during historical investigations at the Facility [see Appendix A-1 of the DOCC Report and residential well logs (Appendix D)] consistently identified thick clay till at shallow depths within 0 to 10 ft bgs both on and in the vicinity of the Facility. Borehole logs from pre-RFI investigations and work at the landfill north of the Facility indicate clay till is on the order of 55 feet thick, before encountering the drift aquifer.

The thickness of the drift aquifer was determined at one location (PFW-1) at the Facility to be 14 feet thick at a depth of 71 ft bgs. Clay was identified underlying the drift aquifer but the nature and vertical extent was not determined.

The uppermost bedrock at the Facility is part of the Saginaw Formation of Pennsylvania age, which consists primarily of sandstone, shale, and limestone.

Figure 5.1 presents a typical geologic cross-section for the overburden/bedrock below the Facility. The locations of the four background boreholes are presented on Figure 5.2. The stratigraphy at the four background boreholes is presented on Figure 5.3.

A Facility-wide cross-section and AOI location map for the 12 AOIs investigated during the RFI are presented on Figure 5.4. The individual cross-section and borehole location maps and cross-sections are discussed in Section 5.3.5.3 with their respective AOIs and presented on Figures 5.5 through 5.15 as follows:

Cross-Section Location Figure	*AOI*	*Cross-Section*	*Cross-Section Figure*
5.5	2, 8, 18	A-A', A1-A1'	5.6, 5.7
5.8	9, 12, 13, 20	B-B', B1-B1', B2-B2'	5.9, 5.10, 5.11
5.12	11, 14, 17, 21	C-C'	5.13
5.14	19	D-D'	5.15

5.3.3 HYDROGEOLOGY

The overburden glacial deposits contain one potential water bearing zone (drift aquifer), as well as a discontinuous perched water table zone found near the ground surface. These two zones are separated from each other and from the upper bedrock water bearing zone by thick glacial clay till aquitards.

5.3.3.1 SHALLOW PERCHED ZONE

During drilling activities conducted at the Facility, perched water within the shallow silty sand was generally found to be absent. As shown in Table 5.2, including the drilling activities conducted by Peregrine in 1996 and 1997, water was identified in 83 of 236 borings, or approximately 35 percent of the locations. The saturated thickness of the shallow perched zone identified during drilling, where present, is presented on Figure 5.16. When present, the shallow perched zone was intermittent and discontinuous in nature and is usually associated with engineered permeable fill placed during the construction of the plant. The discontinuous perched water table is underlain by a thick glacial clay till aquitard.

Water Levels

Water levels in the perched zone have been measured historically, as summarized in Table 5.3. Perched water elevations measured in 1997, 2002, and 2004 are presented on Figures 5.17, 5.18, and 5.19, respectively, and show that the presence of water in the perched zone is sporadic and generation of groundwater flow contours is not possible.

The water levels at PFW-6/MW-14 and MW-1-02/MW-2-02/MW-3-02/MW-4-02, shown on Figures 5.17 and 5.18, respectively, illustrate that even wells in close proximity to each other, the water levels vary significantly. This illustrates that the groundwater is perched within the individual sand seams at the various monitoring well locations. Given the highly variable nature of the water levels, generation of isopach maps showing the saturated thickness of the perched zone is not feasible.

Hydraulic Conductivity

Estimates of hydraulic conductivity can be made using several different techniques, including the method of Hazen (1911) based on grain size distribution, laboratory permeameter tests on soil samples and with either constant or falling head, and slug/bail testing of monitoring wells. These methods have all been used at the Facility, meaning the results will not be biased by a single method.

Table 5.4 provides a summary of hydraulic conductivity and flow velocity testing completed historically at the former landfill area north of the Facility. A review of Table 5.4 shows that both horizontal and vertical hydraulic conductivities have been estimated for the perched zone. The horizontal hydraulic conductivity values for the perched zone range from 4.4×10^{-4} cm/s for samples of the sand seams to 1.3×10^{-7} cm/s for the silty/clayey fill. The vertical hydraulic conductivity estimates for the perched zone range from 3.6×10^{-7} to 2.1×10^{-8} cm/s, which clearly indicate that vertical movement of water that may be present in the perched zone will be very limited, if at all.

In June 2000, samples were collected to test for hydraulic conductivity of the silty sand perched zone using the Hazen equation based on grain size distribution. Bulk hydraulic conductivities (not differentiated between horizontal and vertical) were 1.2×10^{-6} and 2.0×10^{-7} cm/s, as shown in Table 5.5.

Bail tests were completed in October 2002 at eight monitoring wells screened within the silty sand fill or sand seams within the upper portions of the clay till where water was first encountered at these locations. The field data and analysis are provided in

Appendix M-1, with the results summarized in Table 5.6. The bulk hydraulic conductivities estimated from this method ranged from 3.6×10^{-6} to 1.6×10^{-8} cm/s.

Well Recovery Rates

During the bail tests conducted at the Facility in October 2002, it was noted that the wells were very slow to recover. The wells were bailed dry on October 15, 2002 and the recovery was monitored until the end of that day, and again in the morning and afternoon of October 16, 2002. Table 5.7 summarizes the percent recoveries achieved during the monitored period. At MW-1-02, MW-2-02, MW-3-02, MW-4-02, DSA_MW-1, and PFW-10 in periods ranging from 24 to 35 hours of elapsed time since bailing, the monitoring wells recovered to between only 19.8 and 52.4 percent of their pre-bail water levels. Two wells recovered slightly more quickly (PFW-9 recovered to 78.3 percent within 16.5 hours and MW-3 recovered to 89 percent within 17.4 hours); however, they remained basically unchanged after approximately 28 hours.

5.3.3.2 TILL AQUITARD

The hydraulic conductivity of the clay till unit, which separates the silty sand fill perched zone from the drift aquifer, has also been determined. Table 5.4 presents historical values from the former landfill to the north of the Facility, indicating horizontal hydraulic conductivity ranging from 6.7×10^{-5} to 4.9×10^{-7} cm/sec, and a vertical hydraulic conductivity ranging from 2.2×10^{-8} to 1.5×10^{-8} cm/sec. Table 5.5 presents bulk hydraulic conductivity Hazen (1911) estimates based on grain size distribution curves for samples collected in June 2000 with results ranging from 4.9×10^{-7} to 1.2×10^{-8} cm/sec. Table 5.8 provides bulk hydraulic conductivity estimates based on constant head permeameter tests for samples collected in June 2000 with results in the range 8.1×10^{-8} to 5.5×10^{-9} cm/sec. Due to some disturbance during sampling (e.g., the presence of cobbles during the pushing of the shelby tube), the soil samples were tested in a remolded state.

These low hydraulic conductivity values for the clay till aquitard indicate that the movement of water from the perched zone to the drift aquifer would be very limited, if at all.

5.3.3.3 DRIFT AQUIFER

Well Yield

The capacity of the drift aquifer was determined at PFW-1 from the step-drawdown testing completed in October 2002. The data and analysis are provided in Appendix M-2, and indicate that PFW-1 is capable of pumping at a maximum rate of less than 14.5 gallons per minute (gpm) based on the available water column in the well at the time of the step test. A step-drawdown test was also attempted at well B-23D located at the adjacent former landfill; however, the well was unable to be pumped even at very low rates without going dry, so testing was not completed. This may reflect the fact that B-23D is not a fully penetrating well and the screen in fact straddles the upper portion of the drift aquifer and the lower portion of the clay till. These results are reflective of the conditions at PFW-1 and B-23D specifically, and would vary for wells of differing construction (i.e., diameter) within the same formation.

Hydraulic Conductivity

The hydraulic conductivity of the drift aquifer was determined for monitoring wells at the former landfill north of the Facility by Chester Engineers (1986) to be on the order of 9.2×10^{-4} to 1.2×10^{-4} cm/sec (see Table 5.4), typical for silty sand aquifers (Freeze and Cherry, 1979).

As part of the constant-rate pumping test completed during October 2002, estimates of the transmissivity and hydraulic conductivity were made for the drift aquifer at PFW-1. The data and analysis are provided in Appendix M-3, and summarized in Table 5.9. The estimated hydraulic conductivity from the constant rate test drawdown and recovery data in the pumped well are 3.0×10^{-2} and 2.4×10^{-2} cm/sec, respectively, typical for clean sand aquifers (Freeze and Cherry, 1979). This is an estimated value only, as analysis of data from the pumped well during a constant-rate test provides an approximation only.

The two orders of magnitude difference in the results may be reflective of the difference in screen positioning, as discussed above, with the lower hydraulic conductivity value represented where the screens straddled both the clay till and the upper portions of the drift aquifer.

5.3.3.4 PUMPING TEST RESULTS

To confirm the absence of a hydraulic connection between the drift aquifer and the perched zone, a minimum 24-hour constant rate pumping test was conducted at PFW-1, while monitoring the water levels in the available perched zone monitoring wells at the Facility, and also some drift aquifer monitoring wells at the former landfill north of the Facility. The data collected during the constant-rate pumping test are provided in Appendix M-3, with a summary provided in Table 5.10. Climatic data, specifically precipitation for the months of September and October 2002, and barometric pressure for the testing period, are provided in Appendix M-4.

A review of the hydrographs provided in Appendix M-3 indicates that with the exception of the pumped well (PFW-1) no response to pumping was observed during the testing. The water levels in some of the perched zone monitors (MW-1-02, MW-2-02, MW-3-02, MW-4-02, PFW-9, and B-14) did show a decreasing trend over the monitored period, which included time before, during, and after pumping, but the trend is a steady overall decline in water levels and not a response to pumping (see hydrographs in Appendix M-3). Since the month of October 2002 was characterized by very low precipitation levels after several storm events in September 2002 (see Appendix M-4), the decreasing trend is interpreted to reflect decreasing water levels due to the low precipitation levels throughout this time period, since water in the perched zone is directly related to precipitation levels.

Perched zone monitoring wells MW-1, MW-3, DSA_MW-1, PFW-2, and PFW-11 do not reflect a response to pumping at PWF-1. These wells show a slight response to barometric pressure.

Perched monitoring well PFW-10 showed a rise in water level throughout the pumping test, which is clearly not a response to pumping of the drift aquifer.

5.3.4 HYDROLOGY

The nearest surface water body is Mott Lake, approximately two miles east of the Facility, and wetlands adjacent to the landfill, approximately 1,500 feet northwest. Mott Lake was created in 1971 with the construction of a 30-foot high dam across the Flint River. The 500-acre lake is used solely for recreational activities, such as fishing, boating, and swimming. The wetlands northwest of the Facility were created in 1993 and 1994 to replace wetlands damaged during closure of the landfill. The wetlands have

an area of approximately 20 acres and a depth of approximately 5 feet, and have been observed to contain water year round.

Surface water drainage at the Facility is generally toward a low area, which occupies the northwest corner of the adjacent MLC property. This area comprises the area of reconstructed wetlands. A copy of the former storm sewer network showing the known and estimated surface drainage directions is presented in Appendix N. Water drainage in the storm sewer network at the Facility formerly discharged northwest of the Facility to Hughes Drain. The location of Hughes Drain is presented on Figure N.1 in Appendix N. Storm sewers were abandoned with flowable fill during decommissioning and demolition activities at the Facility between 2000 and 2001.

5.3.5 INVESTIGATIVE RESULTS

5.3.5.1 SCREENING CRITERIA

Generic risk-based industrial cleanup criteria are specified in Part 201 of Michigan's Natural Resources and Environmental Protection Act, Public Act 451, and outlined in the MDEQ RRD Operational Memorandum No. 1, updated January 23, 2006, pursuant to 1994 PA 451 as amended. The generic risk-based industrial criteria provides land-use specific screening levels for evaluation of AOI-specific analytical data (i.e., the risk-based industrial criteria provides a "starting point" for evaluation of AOI-specific data).

Soil sample analytical data were compared to the generic risk-based industrial criteria presented below:

- Background Values (Background[A]) as identified in Section 5.3.5.2
- Industrial Direct Contact Criteria (IDCC[B])
- Particulate Soil Inhalation Criteria (PSIC[C])
- Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
- Industrial Drinking Water Protection Criteria (IDWPC[E])
- Infinite Source Soil Inhalation Criteria (ISSIC[F])

For AOI 9 and AOI 11, in samples where both total chromium and hexavalent chromium were analyzed, the hexavalent chromium result was subtracted from the total chromium result to get a trivalent chromium result. The trivalent chromium result was then compared to criteria for trivalent chromium, and no comparison was made for the total chromium.

Groundwater sample analytical data were compared to the following generic industrial risk-based industrial criteria:

- Groundwater Contact Criteria (GCC[A])
- Industrial Drinking Water Criteria (IDWC[B])
- Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

The analytical data was not compared to Groundwater Surface Water Interface Criteria since the groundwater surface interface pathway is incomplete.

5.3.5.2 BACKGROUND VALUES

Inorganic background values were determined on a Facility-specific basis by collecting eight samples of geologic media within the shallow silty sand and glacial clay till at the four background boreholes (BK-1, 2, 3, and 4-00). The locations of the background boreholes are presented on Figure 5.2/Plan 2.

The Background Values used for the Facility, herein be referred to as Background[A], are a combination of site-specific and State default concentrations as follows:

- Facility-Specific Background Concentrations, calculated in accordance with *Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria* (S^3TM) (MDEQ, 2002), were used for aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, iron, magnesium, manganese, nickel, potassium, selenium, sodium, thallium, vanadium, and zinc
- Statewide Default Background Concentrations, outlined in the generic industrial criteria, were used for cadmium, copper, lead, mercury and silver (since the Facility-Specific Background Concentrations for these metals were lower than the Statewide values).

The Background[A] values are summarized in Table 5.11. The determination of the Background[A] values is presented in Appendix O.

5.3.5.3 SOIL AND GROUNDWATER RESULTS

The detected soil and groundwater historical and RFI results are summarized in Tables 5.12 through 5.25, and 5.26, respectively. The complete historical and RFI database is presented in Appendix B.

The following sections present the soil and groundwater results for each of the 12 AOIs (AOI 2, AOI 8, AOI 9, AOI 11, AOI 12, AOI 13, AOI 14, AOI 17, AOI 18, AOI 19, AOI 20, and AOI 21) that were determined to require additional investigation in the RFI Work Plans. AOI 3 is also discussed relative to the non-specific sampling locations.

AOIs 4, 5, 6, 7, 10, 15, 16, and 22 did not require additional subsurface investigation as discussed in the RFI Work Plan. AOI 1 was discussed in the Closure Certification Report for the Former Drum Storage Area, submitted under and separate cover and approved by the MDEQ in their letter dated March 24, 2005. With the exception of groundwater data, results for these AOIs are presented in the Appendix B database for completion but are not discussed further in this Report.

There are three historical locations (HD-1, SPL, and WWB) for which coordinates are unknown; however there were no exceedances of generic industrial criteria. Results for these locations are presented in the Appendix B database for completion but are not discussed further in this Report.

5.3.5.3.1 AOI 2 – FORMER WASTE PILE PAD

The general geologic conditions encountered in the vicinity of the Former Waste Pile Pad consisted of approximately 0.5 to 1.5 feet of topsoil followed by approximately 4 to 12 feet of a medium-grained sand fill material. Underlying the fill material was a gray clay till as presented on geologic cross-section A-A'. No visual staining was observed during the sampling activities.

The borehole locations and cross-section A-A' are presented on Figures 5.5 and 5.6.

SOIL SAMPLE RESULTS

The analytical results for the soil samples collected from the Former Waste Pile Pad are summarized in Table 5.12 and identify 4 VOCs, 13 SVOCs, and 22 metals at concentrations at or above the laboratory method detection limit. PCBs, diesel fuel, and

total cyanide were not detected. Most of the VOCs and SVOCs detected were estimated results.

RFI Soil Results

The majority of the organic constituents were detected in the surface fill material encountered at boreholes BH-2-1-00 and BH-2-2-00 (0 to 2 ft bgs).

The manganese (757 mg/kg) and nickel (263 mg/kg) concentrations detected in BH-2-3-00 (0 to 2 ft bgs) exceeded the IDWPC[E] of 1 mg/kg and 100 mg/kg, respectively.

The arsenic (61 mg/kg) concentration detected in BH-2-3-00 (0 to 2 ft bgs) exceeded the IDCC[B] of 37 mg/kg and IDWPC[E] of 4.6 mg/kg. Delineation samples collected in the vicinity of BH-2-3-00 at 0 to 2 ft bgs reported arsenic concentrations below the IDCC[B] and Background[A] (therefore the results do not exceed IDWPC[E]). In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-2-3-00 was excavated to a depth of 2 ft bgs (approximately 30 cubic yards). The excavation extended to the delineation samples. Therefore, soil remaining at AOI 2 no longer exceeds IDCC[B] or IDWPC[E].

The RFI soil results at AOI 2 did not exceed PSIC[C], SVIAIC[D], or ISSIC[F], and no longer exceeds IDCC[B].

Historical Soil Results

Historical soil data from AOI 2 is limited to two samples from two locations (GP-5 and MW-13) from 1996. There were no exceedances of generic industrial criteria.

GROUNDWATER SAMPLE RESULTS

Monitoring well MW-13 was sampled as a RFI non-specific sampling location and is discussed with AOI 2 (the nearest AOI). The analytical results for the groundwater samples collected from the Former Waste Pile Pad are summarized in Table 5.26 and identify five VOCs at concentrations at or above the laboratory method detection limit. PCBs were not detected.

The MW-13 trichloroethene (0.0084 mg/L) concentration detected in the 1996 historical sample exceeded the IDWC[B] of 0.005 mg/L. However, trichloroethene was not detected in the 2000 RFI samples.

The groundwater for at AOI 2 did not exceed GCC[A] or IGVIAIC[C].

5.3.5.3.2 AOI 7 - FORMER SCRAP METAL MANAGEMENT SYSTEM

Investigation of AOI 7 was not specified as part of the RFI Work Plan, and therefore, there were no RFI soil samples collected. Historical soil samples are presented in Appendix B but are not discussed further in this Report. For the purposes of data evaluation, PFW-10 was attributed to AOI 7.

GROUNDWATER SAMPLE RESULTS

Monitoring well PFW-10 was sampled as a RFI non-specific sampling location and is discussed with AOI 7 (the nearest AOI). The analytical results for the groundwater samples (two from PFW-10) collected from the Former Scrap Metal Management System area are summarized in Table 5.26 and identify four metals at or above the laboratory method detection limit. VOCs were not detected.

The PFW-10 total barium (2.6 mg/L) concentration detected in the 1997 historical sample exceeded the IDWC[B] of 2 mg/L. However, the dissolved barium (0.0565 mg/L) concentration detected in the 2002 RFI sample did not exceed the IDWC[B].

The groundwater at AOI 7 did not exceed GCC[A] or IGVIAIC[C].

5.3.5.3.3 AOI 8 – FORMER SCRAP METAL STORAGE AREA

The general geologic conditions encountered in the Former Scrap Metal Storage Area consisted of approximately 2 inches to 1 foot of concrete followed by 0.5 to 5 feet of silty sand or gravel fill material. As presented on geologic cross-sections A-A' and A1-A1', a brown to gray clay till underlies the fill material. Staining with a slight odor was observed within the fill material between 0.5 and 1.2 ft bgs in borehole BH-8-2-00. Black staining and PID readings between 1.4 ppm and 11.6 ppm were encountered between 1 and 2 ft bgs in borehole BH-8-4-00. Samples were collected from the intervals where stained soil was observed.

The borehole locations and cross-sections A-A' and A1-A1' are presented on Figures 5.5, 5.6, and 5.7.

SOIL SAMPLE RESULTS

The analytical results for the soil samples at Former Scrap Metal Storage Area are summarized in Table 5.13 and identify 5 VOCs, 1 SVOC, 2 PCBs, 23 metals, and petroleum hydrocarbons at concentrations at or above the laboratory method detection limit. There were no detections of total cyanide.

RFI Soil Results

The majority of the organic constituents were detected in the fill material encountered at borehole BH-8-1A-00 (0.66 to 2.66 ft bgs and 5 to 7 ft bgs) or BH-8-2-00 (0.42 to 2.42 ft bgs).

The RFI soil results at AOI 8 did not exceed the generic industrial criteria (IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F]).

Historical Soil Results

Historically, five soil samples were collected from five locations in the Former Scrap Metal Storage Area between 1996 and 1997. The arsenic (32 mg/kg) concentration detected in PFB-7 (8 to 10 ft bgs) exceeded the IDWPC[E] of 4.6 mg/kg.

5.3.5.3.4 AOI 9 - FORMER PLATING AREAS

The general geologic conditions encountered in the Former Plating Areas consisted of approximately 0.5 to 1.5 feet of concrete followed by 0.5 to 7 feet of sand fill material overlying a gray clay till. An odorless, black staining was encountered beneath a one inch layer of coal (9 ft bgs) in BH-9-1C-00. A slight odor was observed at 0.5 to 4 ft bgs in BH-9-12-00. PID readings (2.2 ppm) and a strong odor was encountered at 0 to 3.5 ft bgs in BH-9-24-00. A metallic black staining was observed in BH-9-26-00 at a depth of 0.8 to 4 ft bgs. PID readings at this borehole were 7.7 ppm at 1 to 2 ft bgs and 1.4 ppm at 4 ft bgs. PID readings were also encountered in BH-9-25-00 (1.7 ppm at 0.7 to 1.5 ft bgs), BH-26A-00 (1.2 ppm at 0.8 to 4 ft bgs), BH-9-28-00 (0.7 ppm at 1.5 ft bgs), and BH-9-30-00 (1.0 ppm at 0.6 to 4 ft bgs). Soil samples were collected from all intervals where staining, PID readings, and/or odor were identified.

AOI 9 is presented in presented in geologic cross-sections B-B' and B2-B2'. A thin discontinuous sand lens was encountered within the native clay at approximately 10 to 11 ft bgs (799.5 to 798.4 feet AMSL). Clay was discovered at shallow depths, generally

2 or 3 feet below the basement floor, at each of the 29 boreholes completed in the basement during the implementation of the RFI Work Plans. The basement investigation results were submitted to the MDEQ in the Response to Draft RFI Comments, and are included in Appendix J.

The borehole locations and cross-sections B-B' and B2-B2' are presented on Figures 5.8, 5.9, and 5.11.

SOIL SAMPLE RESULTS

The analytical results for the soil samples at the Former Plating Areas are summarized in Table 5.14 and identify 21 VOCs, 6 SVOCs, 24 metals, total cyanide, and sulfide at concentrations at or above the laboratory method detection limit. PCBs were not detected.

RFI Soil Results

The majority of these concentrations were detected in the surface fill material encountered at boreholes BH-9-23-00, BH-9-24-00, and BH-9-26-00.

The VOCs which exceeded the IDWPC[E] and/or the SVIAIC[D] were all encountered in the fill material (0.5 to 2.5 ft bgs) in BH-9-23-00, BH-9-24-00, and BH-9-26-00 as follows:

- The 1,1,1-trichloroethane (6 mg/kg) and tetrachloroethene (0.17J mg/L) concentrations detected in BH-9-23-00 (0.5 to 2.5 ft bgs) exceeded the IDWPC[E] of 4 mg/kg and 0.1 mg/kg, respectively
- The 1,1-dichloroethene (1 mg/kg) concentration detected in BH-9-23-00 (0.5 to 2.5 ft bgs) exceeded the SVIAIC[D] of 0.33 mg/kg and the IDWPC[E] of 0.14 mg/kg
- The methylene chloride concentration detected in BH-9-24-00 (0.11J mg/kg and 0.66 to 2.66 ft bgs) and BH-9-26-00 (0.29 mg/kg at 1 to 2 ft bgs) exceeded the IDWPC[E] of 0.1 mg/kg
- The benzene (0.64J mg/kg), ethylbenzene (3.8J mg/kg), methylene chloride (0.29J mg/kg), and total xylene (9.8J mg/kg) concentrations detected at BH-9-26-00 (1 to 2 ft bgs), exceeded their corresponding IDWPC[E] of 0.1 mg/kg, 1.5 mg/kg, 0.1 mg/kg, and 5.6 mg/kg, respectively

In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-9-23-00 was excavated to a depth of 2 feet below the concrete (approximately 30 cubic yards). The excavation

extended to the delineation samples. Therefore, soil in the vicinity of BH-9-23-00 no longer exceeds SVIAIC[D].

The following metals exceedances of the IDWPC[E] were encountered at AOI 9:

- The zinc (10,800/5,400 mg/kg) concentration detected in BH-9-3-00 (1.5 to 2.5 ft bgs) exceeded the IDWPC[E] of 5,000 mg/kg
- The cobalt (23.5 mg/kg) concentration detected in BH-9-4-00 (0.5 to 2.5 ft bgs) exceeded the IDWPC[E] of 2 mg/kg
- The nickel concentrations in BH-9-16B-00 (140 mg/kg at 0.66 to 2.66 ft bgs), BH-26A-01 (222 mg/kg at 4 to 6 ft bgs), BH-9-25-00 (36,500 mg/kg at 0.8 to 1.8 ft bgs), and the BASE 1 basement (158 mg/kg at 6 feet below the basement) exceeded the IDWPC[E] of 100 mg/kg
- The magnesium (36,500 mg/kg) concentration detected in BH-9-25-00 (0.8 to 1.8 ft bgs) exceeded the IDWPC[E] of 22,000 mg/kg
- The following parameters in BH-9-26-00 (1 to 2 ft bgs) exceeded IDWPC[E]:

Parameter	***Concentration***	***IDWPC[E]***
barium	2,300 mg/kg	1,300 mg/kg
cadmium	9.7 mg/kg	6 mg/kg
hexavalent chromium	611.28 mg/kg	30 mg/kg
cobalt	129 mg/kg	2 mg/kg
iron	30,000 mg/kg	6 mg/kg
lead	28,100 mg/kg	700 mg/kg
mercury	1.8 mg/kg	1.7 mg/kg
nickel	98,600 mg/kg	100 mg/kg
selenium	4.8 mg/kg	4 mg/kg
zinc	18,500 mg/kg	5,000 mg/kg

- The total chromium concentrations in the samples collected the BASE 1 and BASE 2 samples (96.4 mg/kg and 38.3 mg/kg at 6 feet below the basement), BH-26A-01 (119 mg/kg at 4 to 6 ft bgs) and BH-26C-01 (43.8 mg/kg at 4 to 6 ft bgs) exceeded the IDWPC[E] of 30 mg/kg (hexavalent chromium was not analyzed)

The following metals exceedances of the IDCC[B] or PSIC[C] were encountered at BH-9-26-00 (1 to 2 ft bgs):

- The lead (28,100 mg/kg) concentration in BH-9-26-00 (1 to 2 ft bgs) exceeded the IDCC[B] of 900 mg/kg. Delineation samples collected in the vicinity of BH-9-26-00 at 1 to 2 ft bgs reported lead concentrations below the IDCC[B].

- The hexavalent chromium (611.28 mg/kg) and nickel (89,600) concentrations at BH-9-26-00 (1 to 2 ft bgs) exceeded the PSIC[C] of 16,000 mg/kg and 240 mg/kg, respectively.

In May 2001, approximately 90 cubic yards of material was excavated in the vicinity of BH-9-26-00, from an area approximately 21 feet x 19 feet x 6 feet deep. Verification samples were collected and analyzed for VOCs and metals, and were below IDCC[B] and PSIC[C]. Therefore, soil in the vicinity of BH-9-26-00 no longer exceeds IDCC[B] and PSIC[C].

It should be noted that the hexavalent chromium concentration at BH-9-26-00 was erroneously attributed to BH-9-24-00 by the laboratory, and therefore, delineation sampling was conducted in the vicinity of BH-9-24-00 in June 2002. The delineation samples were below PSIC[C].

The RFI soil results at AOI 9 did not exceed the ISSIC[F], and no longer exceeds IDCC[B], PSIC[C] and SVIAIC[D].

Historical Soil Results

Historically, 14 soil samples were collected from 12 locations in the Former Plating Areas between 1996 and 1997. The following historical exceedances of the IDWPC[E] were encountered at AOI 9:

- The cadmium (6.05 mg/kg) concentration at K-35 (depth unknown) exceeded the IDWPC[E] of 6 mg/kg
- The total chromium concentrations at K-32 (42.8 mg/kg, depth unknown) and K-35 (1,160 mg/kg, depth unknown) exceeded the IDWPC[E] of 30 mg/kg
- The lead (1,280 mg/kg) concentration at K-35 (depth unknown) exceeded the IDWPC[E] of 700 mg/kg
- The total cyanide (31.8 mg/kg) concentration at F-30 (0 to 2 ft bgs) exceeded the IDWPC[E] of 4 mg/kg

The total chromium (1,160 mg/kg) concentration at K-35 (depth unknown) exceeded the IDWPC[E] of 30 mg/kg and the PSIC[C] of 240 mg/kg for hexavalent chromium; hexavalent chromium was not historically sampled at K-35. A sample was collected for total and hexavalent chromium, immediately adjacent to K-35 (0.5 to 2.5 ft bgs) in February 2003, and concentrations were below the PSIC[C]. Assuming the total chromium concentration and the historical proportion of hexavalent chromium are

consistent with the resample results, the historical hexavalent chromium concentration (accounting for approximately 8 percent of the total) would have been approximately 92.3 mg/kg, which is below the PSIC[C].

The lead (1,280 mg/kg) concentration at K-35 (depth unknown) exceeded the IDCC[B] of 900 mg/kg. Delineation samples collected in the vicinity of K-35 at 0 to 2 ft bgs reported lead concentrations below the IDCC[B]. In April 2004, an area (20 feet x 20 feet) in the vicinity of K-35 was excavated to a depth of 2 feet below the concrete (approximately 30 cubic yards). The excavation extended to the delineation samples. Therefore, soil in the vicinity of K-35 no longer exceeds IDCC[B].

5.3.5.3.5 AOI 11 - FORMER COAL STORAGE AREA

The general geologic conditions encountered in the Former Coal Storage Area consisted of approximately 1 to 2 feet of topsoil or coal followed by 8 to 18 feet of sand fill material. As presented on the geologic cross-section C-C', the remaining coal was removed as part of decommissioning and demolition activities, and the remaining coal fines were removed in June 2002. A brown to gray clay till underlies the fill material. A moist zone was encountered at a depth of 8.3 to 9.8 ft bgs. Groundwater was also encountered in BH-11-4-00 with a saturated thickness from approximately 13 to 15 ft bgs. Staining accompanied with strong odors and PID readings ranging from 15 to 98 ppm was observed in BH-11-3-00 at a depth of 8.3 to 10.5 ft bgs. A sample was collected of the stained material.

The borehole locations and cross-section C-C' are presented on Figures 5.12 and 5.13.

SOIL SAMPLE RESULTS

The analytical results for the soil samples at the Former Coal Storage Area are summarized in Table 5.15 and identify 10 SVOCs and 23 metals at concentrations at or above the laboratory method detection limit. No PCBs or total cyanide were detected. There was no analysis for VOCs for soil samples in AOI 11.

RFI Soil Results

The following metals exceedances of the IDWPC[E] were encountered at AOI 11:

- The aluminum concentration at BH-11-1-00 (16,400 mg/kg at 2.5 to 4.5 ft bgs), exceeded the IDWPC[E] of 1 mg/kg

- The arsenic concentrations detected at BH-11-1-00 (131 mg/kg at 2.5 to 4.5 ft bgs), BH-11-3-00 (20.1 mg/kg at 8.33 to 9.75 ft bgs), and BH-11-4-02 (14.5J mg/kg at 0 to 2 ft bgs) exceeded the IDWPC[E] of 4.6 mg/kg
- The cobalt (14.4 mg/kg) concentration detected at BH-11-3-00 (8.33 to 9.75 ft bgs) exceeded the IDWPC[E] of 2 mg/kg
- The iron concentrations detected in BH-11-1-00 (90,600 mg/kg at 2.5 to 4.5 ft bgs) and BH-11-3-00 (28,700 mg/kg at 2 to 4 ft bgs and 38,300 mg/kg at 8.33 to 9.75 ft bgs) exceeded the IDWPC[E] of 6 mg/kg
- The selenium (10.6 mg/kg) concentration at BH-11-1-00 (2.5 to 4.5 ft bgs) exceeded the IDWPC[E] of 4 mg/kg

The arsenic (131 mg/kg) concentration at BH-11-1-00 (2.5 to 4.5 ft bgs) also exceeded the IDCC[B] of 37 mg/kg. Delineation samples collected in the vicinity of BH-11-1-00 at 0 to 2 ft bgs reported arsenic concentrations below the IDCC[B]. In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-11-1-00 was excavated to a depth of 4.5 ft bgs (approximately 67 cubic yards). The excavation extended to the delineation samples. Therefore, soil in the vicinity of BH-11-1-00 no longer exceeds IDCC[B].

The RFI soil results at AOI 11 did not exceed the PSIC[C], SVIAIC[D], or ISSIC[F], and no longer exceed the IDCC[B].

Historical Soil Results

Historical soil data from AOI 12 is limited to two samples from two locations (PFB-23 and PFB-24) from 1997. There were no exceedances of generic industrial criteria.

5.3.5.3.6 AOI 12 – FORMER CAUSTIC TANKS

The general geologic conditions encountered in the Former Caustic Tanks Area consisted of 2 to 6 inches of concrete or asphalt followed by approximately 0.2 to 1.8 feet of sand fill material overlying a brown or gray clay (till). As presented on geologic cross-section B-B', the subsurface geology in the vicinity of the Former Caustic Tanks did not appear to contain any significant sand lenses. No visual staining was observed during the sampling activities.

The borehole locations and cross-section B-B' are presented on Figures 5.8 and 5.9.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Caustic Tanks Area are presented in Table 5.16 and identify 4 VOCs and 1 SVOC at concentrations at or above the laboratory method detection limit. PCBs and hexavalent chromium were not detected.

RFI Soil Results

The surface concentration of trichloroethene (0.11 mg/kg) detected at BH-12-1-00 (1.5 to 2.5 ft bgs) exceeded the IDWPC[E] of 0.1 mg/kg.

The RFI soil results at AOI 12 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], or ISSIC[F].

Historical Soil Results

No historical soil samples were collected at AOI 12 prior to the RFI.

5.3.5.3.7 AOI 13 – FORMER HEADLINER ADHESIVE TANKS

The general geologic conditions encountered in the Former Headliner Adhesive Tanks area consisted of approximately 1.5 feet of sand fill material overlying a brown clay (till). As presented on geologic cross-section B1-B1', the subsurface geology in the vicinity of the Former Headliner Adhesive Tanks did not appear to contain any significant sand lenses. No visual staining was observed during the sampling activities.

The borehole locations and cross-section B1-B1' are presented on Figures 5.8 and 5.10.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Headliner Adhesive Tanks area are presented in Table 5.17 and identify 6 VOCs and 1 SVOC at concentrations at or above the laboratory method detection limit. No PCBs were detected

RFI Soil Results

The RFI soil results at AOI 13 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F].

Historical Soil Results

Historical soil data from AOI 12 is limited to one sample from one location (GP-6) from 1996. There were no exceedances of generic industrial criteria.

5.3.5.3.8 AOI 14 - FORMER INCINERATOR

The general geologic conditions encountered in the Former Incinerator area consisted of approximately 0.5 foot of topsoil followed by 3 to 7 feet of sand fill material. A brown clay till underlies the fill material. A moist zone was encountered at a depth of 8.3 to 9.8 ft bgs. No visual staining was observed during the sampling activities.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Incinerator area are presented in Table 5.18 and identify 4 VOCs, 3 SVOCs, 22 metals, and petroleum hydrocarbons at concentrations at or above the laboratory method detection limit. Total cyanide was not detected.

RFI Soil Results

The RFI soil results at AOI 14 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F].

Historical Soil Results

Historically, four soil samples were collected from four locations in the Former Incinerator area between 1996 and 1997. The arsenic (18 mg/kg) concentration detected in PFW-2 (0 and 1.5 ft bgs) exceeded the IDWPC[E] of 4.6 mg/kg.

GROUNDWATER SAMPLE RESULTS

Monitoring well PFW-9 was sampled as a RFI non-specific sampling location and is discussed with AOI 14 (the nearest AOI). In addition, monitoring wells MW-1, MW-2, and PFW-2 are also discussed with AOI 14. The analytical results for the groundwater samples collected from the Former Incinerator are summarized in Table 5.26 and identify 6 VOCs, 6 SVOCs, and 3 metals at or above the laboratory method detection limit. No PCBs were detected.

The PFW-9 total lead (0.009 mg/L) concentration detected in the 1997 historical sample exceeded the IDWC[B] of 0.004 mg/L. However, dissolved lead was not detected in the 2000 and 2002 RFI samples.

The groundwater results for at AOI 14 did not exceed GCC[A] or IGVIAIC[C].

5.3.5.3.9 AOI 15 - OTHER FORMER USTs

Investigation of AOI 15 was not specified as part of the RFI Work Plan, and therefore, there were no RFI soil samples collected. Historical soil samples are presented in Appendix B but are not discussed further in this Report. For the purposes of data evaluation, MW-4, MW-10, and PFW-5 were attributed to AOI 15.

GROUNDWATER SAMPLE RESULTS

Monitoring wells MW-4 and MW-10 were sampled as RFI non-specific sampling locations and are discussed with AOI 15 (the nearest AOI). In addition, monitoring well PFW-5 is also discussed with AOI 15. The analytical results for the groundwater samples from the Other Former USTs are summarized in Table 5.26 and identify 3 VOCs and seven metals above the laboratory method detection limit. PCBs and SVOCs were not detected.

The following parameters historically exceeded the IDWC[B]:

- The historical MW-4 trichloroethene (0.053 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.005 mg/L. However, trichloroethene was not detected in the second 1996 historical sample or the 2000 RFI sample.
- The historical MW-4 total arsenic (0.016 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below the previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L. It should be noted that total arsenic was not detected in the second 1996 historical sample.
- The historical MW-4 total lead (0.026 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.004 mg/L. It should be noted that total lead was not detected in the second 1996 historical sample. In addition, dissolved lead was not detected in the 2000 RFI sample.

- The historical MW-10 total lead (0.014 mg/L) concentration detected in the 1996 sample exceeded the IDWC[B] of 0.004 mg/L; however, dissolved lead was not detected. In addition, total lead and dissolved lead was not detected in the historical 1997 or 2000 RFI samples, respectively.

The groundwater results for at AOI 14 did not exceed GCC[A] or IGVIAIC[C].

5.3.5.3.10 AOI 17 – SUBSTATION DRAINAGE SUMP

The general geologic conditions encountered in the Substation Drainage Sump area consisted of 2 to 6 inches of asphalt followed by approximately 6 to 8 feet of sand fill material overlying a gray clay till as presented on geologic cross section C-C'. A moist discontinuous sand lens was encountered approximately 5 to 7.5 ft bgs at BH-17-1-00 and approximately 10.7 to 15.1 ft bgs at BH-17-2-00. No visual staining was observed during the sampling activities.

The borehole locations and cross-section C-C' are presented on Figures 5.12 and 5.13.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Substation Drainage Sump area are presented in Table 5.19 and identify seven SVOCs at concentrations at or above the laboratory method detection limit. No PCBs were detected.

RFI Soil Results

The RFI soil results at AOI 17 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F].

Historical Soil Results

Historical soil data from AOI 17 is limited to one sample for PCBs from one location (SB-2) from 1996. There were no exceedances of generic industrial criteria.

5.3.5.3.11 AOI 18 – FORMER INACTIVE EQUIPMENT RESERVE YARD

The general geologic conditions encountered in the Former Inactive Equipment Reserve Yard area consisted of 6 to 8 inches of concrete followed by approximately 1 to 5 feet of a

silty sand fill material overlying a brown clay till. As presented on geologic cross-sections A-A' and A1-A1', a moist discontinuous sand lens was encountered at approximately 18 to 20.4 and 27.5 to 30 ft bgs at BH-18-2-00. PID readings were encountered 1 to 4 ft bgs in BH-18-2-00 (12 to 60 ppm) and 5 to 6 ft bgs in BH-18-4-00. Soil samples were collected from locations where elevated PID readings were identified. No visual staining or odors were observed.

The borehole locations and cross-section A-A' and A1-A1' are presented on Figures 5.5, 5.6, and 5.7.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Inactive Equipment Reserve Yard area are presented in Table 5.20 and identify 4 VOCs, 23 metals, diesel fuel, and petroleum hydrocarbons at concentrations at or above the laboratory method detection limit. SVOCs, PCBs, and total cyanide were not detected.

RFI Soil Results

The following metals exceedances of the IDWPC[E] were encountered in the surface soil at AOI 18:

- The aluminum concentrations at BH-18-2-00 (15,900/15,700 mg/kg at 0.66 to 3 ft bgs) exceeded the IDWPC[E] of 1 mg/kg
- The cobalt concentrations detected at BH-18-2-00 (12.3/11.9 mg/kg at 0.66 to 3 ft bgs), and BH-18-3-00 (12.3 mg/kg at 0.5 to 1.5 ft bgs) exceeded the IDWPC[E] of 2 mg/kg
- The iron concentrations at BH-18-1-00 (28,000 mg/kg at 2 to 3 ft bgs) and BH-18-2-00 (32,200/33,600 mg/kg at 0.66 to 3 ft bgs) exceeded the IDWPC[E] of 6 mg/kg
- The manganese concentrations at BH-18-2-00 (579/574 mg/kg at 0.66 to 3 ft bgs) exceeded the IDWPC[E] of 1 mg/kg

The RFI soil results at AOI 18 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], or ISSIC[F].

Historical Soil Results

Historically, eight soil samples were collected from eight locations in the Former Equipment Reserve Yard between 1996 and 1997. There were no exceedances of generic industrial criteria.

GROUNDWATER SAMPLE RESULTS

Monitoring well MW-3 was sampled as a RFI non-specific sampling location and is discussed with AOI 18 (the nearest AOI). In addition, monitoring well PFW-4 is also discussed with AOI 18. Analytical results for the groundwater samples in the Former Inactive Equipment Reserve Yard area are summarized in Table 5.26 and identify 4 VOCs and 6 metals at or above the laboratory method detection limit. PCBs were not detected.

The historical MW-3 total arsenic (0.013 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L. It should be noted that total arsenic was not detected in the second 1996 historical sample.

The historical MW-3 total lead (0.012 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.004 mg/L. It should be noted that total lead was not detected in the second 1996 historical sample. In addition, dissolved lead was not detected in the 2000 and 2002 RFI samples.

The groundwater for at AOI 2 did not exceed GCC[A] or IGVIAIC[C].

5.3.5.3.12 AOI 19 – FORMER PRESS ROOM

The general geologic conditions encountered in the Former Press Room consisted of approximately 0.5 to 1 feet of concrete followed by 0.5 to 16 feet of sand fill material. As presented on geologic cross-section D-D', a brown to gray clay till underlies the fill material. Wet sand was encountered at approximately 10 to 12.3 ft bgs at BH-19-4-00. Odors were observed in BH-19-1-00 (0 to 4.5 feet), BH-19-4-00 (10 ft bgs), BH-19-6-00 (1 to 6 ft bgs). Odors accompanied by PID readings ranging from 24 to 78 ppm were encountered at BH-19-8-00 (1 to 4 ft bgs). Soil samples were collected from all locations where odors or elevated PID readings were identified.

The borehole locations and cross-section D-D' are presented on Figures 5.14 and 5.15.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Press Room are presented in Table 5.21 and identify 12 VOCs, 20 SVOCs, and 24 metals at concentrations at or above the laboratory method detection limit. PCBs, diesel fuel, total cyanide, and acid insoluble sulfide were not detected.

RFI Soil Results

The majority of the organic constituents were detected in the surface fill material encountered at borehole BH-19-5-00 (0.6 to 3 ft bgs).

The cobalt (24.6 mg/kg) detected in BH-19-1-00 (0.5 to 2.5 ft bgs) and the manganese (620 mg/kg) concentration detected in BH-19-7-00 (0.5 to 2.5 ft bgs) exceeded their corresponding IDWPC[E] of 2 mg/L and 1 mg/L, respectively.

The RFI soil results at AOI 19 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], or ISSIC[F].

Historical Soil Results

There are no historical sample locations located in the Former Press Room. However, three soil samples collected from three locations (GP-1, GP-2, Q-12) between 1996 and 1997 have been associated with this area. There were no exceedances of generic industrial criteria.

5.3.5.3.13 AOI 20 – FORMER TOOL ROOM

The general geologic conditions encountered in the Former Tool Room consisted of 0.5 to 1 feet of concrete followed by approximately 0.5 to 5 feet of sand fill material overlying a brown to gray clay (till). As presented on geologic cross-sections B-B' and B1-B1', a saturated thickness was encountered approximately 5 to 6 ft bgs at BH-20-3-00. No visual staining was observed during the sampling activities.

The borehole locations and cross-sections B-B' and B1-B1' are presented on Figures 5.8, 5.9, and 5.10.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the Former Tool Room are presented in Table 5.22 and identify six VOCs, 24 metals, and total cyanide at concentrations at or above the laboratory method detection limit. SVOCs, PCBs, and acid insoluble sulfide were not detected.

The analytical results for the soil samples attributed to both Former Tool Room (AOI 20) and the Buildings 44 and 63 Pits (AOI 22) are presented in Table 5.23 and identify six additional VOCs (with the except of trichloroethene, which is on both Tables 5.22 and 5.23), six metals, and petroleum hydrocarbons at concentrations at or above the laboratory method detection limit. There was no analysis for SVOCs, PCBs, total cyanide, or acid insoluble sulfide.

RFI Soil Results

The RFI soil results at AOI 20 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F].

Historical Soil Results

There are no historical sample locations located in the Former Tool Room (AOI 20). However, two soil samples collected from PFW-8 in 1997 have been associated with this area. There were no exceedances of generic industrial criteria.

Historically, eight soil samples were collected from five monitoring well locations in the area of the Buildings 44 and 63 Pits (AOI 22) in 1996. There were no exceedances of generic industrial criteria.

5.3.5.3.14 AOI 21 – POWERHOUSE FUEL OIL STORAGE TANKS

The general geologic conditions encountered in the vicinity of the Powerhouse Fuel Oil Storage Tanks consisted of approximately 0.5 to 14.5 feet of sand fill material overlying a brown to gray clay (till). As presented on geologic cross-section C-C', a moist discontinuous sand lens was encountered at approximately 10 to 11 ft bgs at BH-21-1-00 and 9.5 to 14.5 ft bgs at BH-21-2-00. No visual staining was observed during the sampling activities.

The borehole locations and cross-section C-C' are presented on Figures 5.12 and 5.13.

SOIL SAMPLE RESULTS

The analytical results for the soil samples in the vicinity of the Powerhouse Fuel Oil Storage Tanks are presented in Table 5.24 and identify 3 VOC, 15 SVOCs, and 22 metals at concentrations at or above the laboratory method detection limit. Total cyanide was not detected.

RFI Soil Results

The majority of the organic constituents were detected in the fill material encountered at borehole BH-21-2-00 (0.6 to 3 ft bgs).

The RFI soil results at AOI 20 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], IDWPC[E], or ISSIC[F].

Historical Soil Results

Historical soil data from AOI 21 is limited to one sample from PFB-21 in 1997. There were no exceedances of generic industrial criteria.

5.3.5.3.15 NON-SPECIFIC SAMPLING LOCATIONS

The non-specific sampling was conducted as follows:

- Sampling as part of the supplemental soil investigation at AOI 3 to address closure documentation requirements
- Sampling of the perched water to address the historical exceedances
- Sampling of the drift aquifer at PFW-1

AOI 1 investigation results were discussed in the Closure Certification Report for the Former Drum Storage Area. Closure was approved by the MDEQ in a letter dated March 24, 2005, and therefore, data associated with AOI 1 are not part of the RFI. However, for completness, available historical AOI 1 data is presented in Appendix B, and groundwater data is presented with the Site-wide groundwater results.

SOIL SAMPLE RESULTS

The analytical results for the supplemental soil samples collected at the two Former Waste Oil USTs at AOI 3 are presented in Table 5.25 and identify 6 VOCs, and 8 metals at concentrations at or above the laboratory method detection limit. No PCBs were detected.

RFI Soil Results

The tetrachloroethene (0.31 mg/kg) concentration at BH-3-7-00 (8.5 to 9 ft bgs) exceeded the IDWPC[E] of 0.1 mg/kg.

The RFI soil results at AOI 3 did not exceed the IDCC[B], PSIC[C], SVIAIC[D], or ISSIC[F].

Historical Soil Results

Historical soil data from AOI 3 is limited to one sample from PFW-11 in 1997. There were no exceedances of generic industrial criteria.

GROUNDWATER SAMPLE RESULTS

RFI Perched Water Results

As described in Section 4.3.14, the monitoring wells not installed to investigate specific AOIs (MW-3, MW-4, MW-10, MW-13, PFW-9, and PFW-10) and sampled as RFI non-specific sampling locations have been discussed with their nearest AOIs.

AOI 1 Perched Water Results

Historical trichloroethene and cis-1,2-dichloroethene concentrations exceeded IDWC[B] in perched water samples at AOI 1 monitoring wells DSA_MW-01 and MW-14, but not in nearby monitoring well PFW-6.

As described in the Closure Certification Report for the Former Drum Storage Area (OBG, January 2005), OBG could not locate MW-14 (screened from 20 to 25 ft bgs) or PFW-6 (screened from 8 to 13 ft bgs) and therefore installed temporary monitoring well DSA_MW-01 (screened from 9.7 to 14.7 ft bgs in a sand lense), the only boring installed by OBG where groundwater observed to be present.

Source area removal was conducted in this area (including concrete sumps and impacted soil). Soil was excavated to a depth of 25 ft bgs immediately around the sumps (believed to extend to the approximate vicinity of DSA_MW-01) and to a depth of 12 ft bgs north of the sumps (assumed approximate vicinity of MW-14 and PFW-6). Verification soil sampling was performed and indicated the extent of impacted soil was removed. No groundwater was observed to seep into the excavation.

Due to difficultly developing and sampling DSA_MW-01 and that no groundwater was observed to seep into the excavation, the closure documentation concluded that the sand lense in which DSA_MW-01 was screened is not continuous across the Site or capable of yielding usable qualities of groundwater and therefore further groundwater investigation in this area was not possible or required.

The MDEQ approved closure of the former drum storage area in their letter dated March 24, 2005.

Drift Aquifer Results

The analytical results for the groundwater samples collected from the drift aquifer at PFW-1 are presented in Table 5.26 and identify two metals at concentrations at or above the laboratory method detection limit. No VOCs were detected were detected.

The PFW-1 total arsenic (0.04 mg/L) concentration detected the 1997 historical sample exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L.

The groundwater in the drift aquifer did not exceed GCC[A] or IGVIAIC[C].

5.4 SUMMARY AND EVALUATION OF EXCEEDANCES OF GENERIC INDUSTRIAL CRITERIA

This section presents a summary of the locations where there were exceedances of the generic industrial criteria.

Where Background[A] values were higher than the generic industrial criteria, the data were compared to the Background[A] value. Only those parameters that exceeded both the generic industrial criteria and Background[A] values were classified as having exceeded the screening levels.

Figure 5.20 presents all the historical and RFI soil exceedances of generic industrial criteria at the Facility, and Figures 5.21 through 5.24 summarize exceedances of each type of generic industrial criteria.

5.4.1 SOIL CRITERIA

5.4.1.1 INDUSTRIAL DIRECT CONTACT CRITERIA, IDCC[B]

A summary of exceedances of IDCC[B] is presented on Figure 5.21. Exceedances of the IDCC[B] were encountered at four locations at the Facility:

- At AOI 2, the arsenic (61 mg/kg) concentration detected in BH-2-3-00 (0 to 2 ft bgs) exceeded the IDCC[B] of 37 mg/kg
- At AOI 9, the lead (28,100 mg/kg) concentrations in BH-9-26-00 (1 to 2 ft bgs) exceeded the IDCC[B] of 900 mg/kg
- At AOI 9, the lead (1,280 mg/kg) concentration at K-35 (depth unknown) exceeded the IDCC[B] of 900 mg/kg
- At AOI 11, the arsenic (131 mg/kg) concentration at BH-11-1-00 (2.5 to 4.5 ft bgs) exceeded the IDCC[B] of 37 mg/kg

In June 2001 approximately 90 cubic yards of material was excavated in the vicinity of BH-9-26-00, from an area approximately 21 feet x 19 feet x 6 feet deep. Verification samples were collected and analyzed for VOCs, barium, cadmium, mercury, nickel, selenium, lead, zinc, and cyanide, and were below IDCC[B]. Therefore, soil in the vicinity of BH-9-26-00 no longer exceeds IDCC[B].

In April 2004, areas approximately 20 feet x 20 feet were excavated in the vicinity of BH-11-1-00 (4.5 feet deep, 67 cubic yards), K-35 (2 feet below concrete, 30 cubic yards), and BH-2-3-00 (2 feet deep, 30 cubic yards). These excavations extended to the delineation samples, which did not exceed IDCC[B]. Therefore, soil in the vicinity of BH-11-1-00, K-35, and BH-2-3-00 no longer exceeds IDCC[B].

Therefore, there are no exceedances of IDCC[B] at the Facility.

5.4.1.2 PARTICULATE SOIL INHALATION CRITERIA, PSIC[C]

A summary of exceedances of PSIC[C] is presented on Figure 5.22. Exceedances of the PSIC[C] were encountered at two locations at the Facility:

- At AOI 9, the total chromium (1,160 mg/kg) concentration at K-35 (depth unknown) exceeded the PSIC[C] of 240 mg/kg for hexavalent chromium
- At AOI 9, hexavalent chromium (611.28 mg/kg) and nickel (89,600 mg/kg) concentrations at BH-9-26-00 (1 to 2 ft bgs) also exceeded the PSIC[C] of 240 mg/kg and 16,000 mg/kg, respectively

A sample was collected for total and hexavalent chromium immediately adjacent to K-35 in February 2003. In this sample, both the total and hexavalent chromium concentrations are below PSIC[C], and hexavalent chromium accounts for approximately 8 percent of the total. Assuming the total chromium concentration in the historical sample is correct, and the historical proportion of hexavalent chromium was consistent with the resample results, the historical hexavalent chromium concentration would have been approximately 92.3 mg/kg, which is below the PSIC[C]. In April 2004, an area (20 feet x 20 feet) in the vicinity of K-35 was excavated to a depth of 2 feet below the concrete (30 cubic yards). Therefore, even if hexavalent chromium had been present in historical sample K-35 above PSIC[C], this soil has now been removed. Therefore, soil in the vicinity of K-35 does not exceed the PSIC[C].

In June 2001, approximately 90 cubic yards of material was excavated in the vicinity of BH-9-26-00, from an area approximately 21 feet x 19 feet x 6 feet deep. Verification samples were collected and analyzed for VOCs, barium, cadmium, chromium, mercury, nickel, selenium, lead, zinc, and cyanide, and were below PSIC[C]. Therefore, soil in the vicinity of BH-9-26-00 no longer exceeds the PSIC[C].

Therefore, there are no exceedances of PSIC[C] at the Facility.

5.4.1.3 SOIL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA, SVIAIC[D]

The location of this exceedance is presented on Figure 5.23. There was one location which exceeded the SVIAIC[D] at the Facility. The 1,1-dichloroethene (1 mg/kg) concentration detected in the surface soil at BH-9-23-00 (0.5 to 2.5 ft bgs) exceeded the SVIAIC[D] of 0.33 mg/kg.

In April 2004, an area (20 feet x 20 feet) in the vicinity of BH-9-23-00 was excavated to a depth of 2 ft below the concrete slab (30 cubic yards). The excavation extended to the delineation samples, which did not exceed SVIAIC[D]. Therefore, soil in the vicinity of BH-9-23-00 no longer exceeds SVIAIC[D].

Therefore, there are no exceedances of SVIAIC[D] at the Facility.

5.4.1.4 INDUSTRIAL DRINKING WATER PROTECTION CRITERIA, IDWPC[E]

A summary of exceedances of IDWPC[E] is presented on Figure 5.24. Soil in the vicinity of K-35, MW-14, PFW-6, BH-2-3-00, BH-9-23-00, BH-9-26-00, BH-11-1-00, BH-12-1-00, GB-1, GB-2, GB-4, and GB-7 has been removed. Therefore, the locations where IDWPC[E] is still exceeded in soil at the Facility are as follows:

AOI 03:	BH-3-7-00 (tetrachloroethene)
AOI 08:	PFB-7 (arsenic)
AOI 09:	BASE1 (nickel, total chromium) BASE2 (total chromium) BH-26A-01 (nickel, total chromium) BH-26C-01 (total chromium) BH-9-16B-00 (nickel) BH-9-24-00 (methylene chloride) BH-9-25-00 (magnesium, nickel) BH-9-3-00 (zinc) BH-9-4-00 (cobalt) F-30 (total cyanide) K-32 (total chromium)
AOI 11:	BH-11-3-00 (arsenic, cobalt, iron) BH-11-4-02 (arsenic) PFW-2 (arsenic)
AOI 18:	BH-18-1-00 (iron) BH-18-2-00 (aluminum, cobalt, iron, manganese) BH-18-3-00 (cobalt)
AOI 19:	BH-19-1-00 (cobalt) BH-19-7-00 (manganese)

The drinking water pathway is currently incomplete at the Facility.

5.4.1.5 INFINITE SOURCE SOIL INHALATION CRITERIA, ISSIC[F]

There were no exceedances of ISSIC[F] at the Facility.

5.4.2 GROUNDWATER CRITERIA

There were no exceedances of GCC[A], IDWC[B], or IGVIAIC[V] in RFI samples, however, there were historical exceedances of IDWC[B]. The historical exceedances of IDWC[B] are presented on Figure 5.25.

There were two locations where VOCs exceeded IDWC[B] in historical perch water samples but the subsequent RFI samples did not exceed:

- The historical MW-13 trichloroethene (0.0084 mg/L) concentration detected in the 1996 historical sample exceeded the IDWC[B] of 0.005 mg/L; however, trichloroethene was not detected in the 2000 RFI samples
- The historical MW-4 trichloroethene (0.053 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.005 mg/L; however, trichloroethene was not detected in the second 1996 historical sample or the 2000 RFI sample.

There were five locations where total metals exceeded IDWC[B] in historical perch water samples but the subsequent total or dissolved metal concentrations did not exceed:

- The PFW-10 total barium (2.6 mg/L) concentration detected in the 1997 historical sample exceeded the IDWC[B] of 2 mg/L; however, the dissolved barium (0.0565 mg/L) concentration detected in the 2002 RFI sample did not exceed.
- The PFW 9 total lead (0.009 mg/L) concentration detected in the 1997 historical sample exceeded the IDWC[B] of 0.004 mg/L; however, dissolved lead was not detected in the 2000 and 2002 RFI samples.
- The historical MW 4 total lead (0.026 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.004 mg/L. It should be noted that total lead was not detected in the second 1996 historical sample. In addition, dissolved lead was not detected in the 2000 RFI sample.
- The historical MW 10 total lead (0.014 mg/L) concentration detected in the 1996 sample exceeded the IDWC[B] of 0.004 mg/L; however, dissolved lead was not detected. In addition, total lead and dissolved lead was not detected in the historical 1997 or 2000 RFI samples, respectively.

- The historical MW-10 total lead (0.014 mg/L) concentration detected in the 1996 sample exceeded the IDWC[B] of 0.004 mg/L; however, dissolved lead was not detected. In addition, total lead and dissolved lead was not detected in the historical 1997 or 2000 RFI samples, respectively.
- The historical MW-3 total lead (0.012 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.004 mg/L. It should be noted that total lead was not detected in the second 1996 historical sample. In addition, dissolved lead was not detected in the 2000 and 2002 RFI samples.

There were two locations where total arsenic exceeded IDWC[B] in historical perch water samples. These historical arsenic concentrations were below the 2002 IDWC of 0.05 mg/L, but now exceed the 2006 IDWC[B] of 0.01 mg/L:

- The historical MW-3 total arsenic (0.013 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L. It should be noted that total arsenic was not detected in the second 1996 historical sample.
- The historical MW-4 total arsenic (0.016 mg/L) concentration detected in one of the 1996 historical samples exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below the previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L. It should be noted that total arsenic was not detected in the second 1996 historical sample.

The drift aquifer PFW-1 total arsenic (0.04 mg/L) concentration detected in the 1997 historical sample exceeded the IDWC[B] of 0.01 mg/L. This historical arsenic concentration was below previous drinking water criteria of 0.05 mg/L, but now exceeds current IDWC[B] of 0.01 mg/L.

Perched water exceedances of VOCs at MW-14 and DSA_MW-01 were addressed in the closure of the former drum storage area and approved by the MDEQ in a letter dated March 24, 2005.

6.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The first phase of the RFI at the Former Peregrine (US) Inc. Coldwater Road Facility in Genesee Township, Michigan was conducted between May 2000 and August 2000. The investigative activities focused on 12 of the 21 AOIs identified as requiring further review in the DOCC Report. The RFI included supplemental soil sampling at AOI 3 (in the vicinity of the two former waste oil USTs which had been removed from outside the east wall of Building 44), supplemental soil sampling in the vicinity of BH-9-26-00, delineation sampling in the vicinity of BH-2-3-00, BH-9-23-00, BH-11-1-00, and K-35, and the collection of perched water samples from pre-existing monitoring wells. The supplemental rounds of investigation were completed between April 2001 and February 2003. The RFI also included perched water samples collected from MW-3, MW-4, MW-10, MW-13, and PFW-9 in June 2000. A second round of perched water samples were collected from MW-3, PFW-9, and PFW-10 in October 2002.

The RFI investigation was completed in general accordance with the specifications outlined in the RFI Work Plans except as noted in the text.

Task 1: Topographic Survey

An aerial photograph of the Facility was taken on March 25, 2000 (Figure 1.3). A three-dimensional representation of the aerial photograph is presented on Figure 6.1. The aerial photograph was used as the basis for a ground survey which established a new base plan and reference elevations for the Facility. A three-dimensional representation of the topography is presented on Figure 6.2. All RFI activities were incorporated into the new Facility-wide survey.

Task 2: Groundwater Use Inventory

A groundwater use inventory was completed in a radius of approximately 1.5 miles of the Facility, and is presented in Appendix G. The groundwater use inventory identified a number of potential groundwater users primarily to the north and east of the Facility and verified that all domestic wells were completed in the deeper overburden or bedrock aquifers, which are protected by regionally extensive glacial till aquitards.

Task 3: Characterization of Areas of Interest

The RFI was implemented to characterize the nature and extent of hazardous waste and hazardous waste constituents which may be present at each AOI identified as needing

additional characterization as a result of previous operations and/or releases. The potential chemical constituents and associated soil quality at each AOI were investigated by installing at least two boreholes in each AOI identified as requiring additional characterization. The borehole locations, borehole depths, number of samples collected, the parameters analyzed, and procedures/methodologies utilized to investigate each AOI were based on historical operations for the AOI, as discussed in the DOCC Report, the QAPP, and the RFI Work Plans.

The general geologic profile of the uppermost 30 feet of overburden soils consisted of a surficial silty sand unit underlain by a laterally extensive low hydraulic conductivity glacial clay till (which was consistent with geologic profiles identified during previous investigations). East-west and north-south geologic profiles are presented on Figures 6.3 and 6.4, respectively.

During the investigation, groundwater monitoring wells were to be installed and sampled if the native porous media encountered throughout the AOI was greater than 5 feet thick and the zone of saturation was continuous horizontally and greater than 2 feet thick. However, as summarized below, the saturated silty sand layers encountered above the glacial clay till deposits were laterally discontinuous, of limited vertical thickness, or absent altogether.

AOI	*Sand Lenses*	*Depth Encountered (ft. bgs)*	*Silty Sand Layer Thickness (ft)*
2	0	(through 25)	Not Applicable
8	0	(through 15)	Not Applicable
9	2	5 to 5.5, 10 to 11	0.5 to 1.0
11	2	8.3 to 9.8, 13.1 to 15.1	1.5 to 2
12	0	(through 10)	Not Applicable
13	0	(through 15)	Not Applicable
14	0	(through 15)	Not Applicable
17	2	4.2 to 7.5, 10.8 to 15.1	3.3 to 4.3
18	2	18 to 20.3, 27.5 to 30	2.3 to 2.5
19	1	10 to 12.4	2.4
20	1	5 to 5.8	0.8
21	2	9.5 to 14.5	1 to 5

These native silty sand layers encountered during the RFI did not meet the monitoring well screening requirements specified in the RFI Work Plan (i.e., 5 feet of porous media, 2 feet saturated, continuous horizontally). Therefore, no monitoring wells were installed during the RFI investigation. The RFI investigations were consistent with previous

investigations, which did not encounter a continuous water table aquifer immediately below the surface of the Facility. This is primarily related to the occurrence of a massive regional clay till which exists at or near surface in the area. The locations of perched groundwater identified at the Facility are presented on Figure 6.5.

A comprehensive summary of the organic and inorganic analytes detected at each AOI, their reported concentrations, and the Background[A] and generic industrial criteria (used as the screening levels) for soil is presented in Tables 5.12 through 5.24, and for perched water is presented in Table 5.25.

The organic constituents (VOCs, SVOCs, and PCBs) detected in soil during the RFI were predominately at near surface elevations within the surficial silty sand or engineered fill materials.

Exceedances of Soil Criteria

During the RFI, exceedances of the IDCC[B] for arsenic and lead were encountered at four locations at the Facility. As part of the IMs (presented under a separate cover), soil in the vicinity of these locations was excavated to delineation samples (which did not exceed). Therefore, there are no exceedances of IDCC[B] in soils remaining at the Facility.

During the RFI, exceedances of the PSIC[C] for total chromium (which use the hexavalent chromium criteria), hexavalent chromium, and nickel were encountered at two locations at the Facility. At one location (K-35), a sample was collected immediately adjacent and did not exceed for hexavalent chromium. As part of the IMs (presented under a separate cover), soil in the vicinity of the second location (BH-9-26-00) was excavated to delineation samples (which did not exceed). Therefore, there are no exceedances of PSIC[C] in soils remaining at the Facility.

During the RFI, an exceedance of the SVIAIC[D] for 1,1-dichloroethene was encountered at one location at the Facility. As part of the IMs (presented under a separate cover), soil in the vicinity of this location was excavated to delineation samples (which did not exceed). Therefore, there are no exceedances of SVIAIC[D] in soils remaining at the Facility.

There were no exceedances of ISSIC[F] at the Facility.

There are no Groundwater Surface Water Interface issues at the Facility since no surface water exists on the Facility property or adjacent and downgradient to the Facility and shallow groundwater is discontinuous.

There are still exceedances of IDWPC[E] in soil at the Facility at the following locations, even though actual groundwater sample results do not exceed IDWC [B] (except arsenic at MW-3, MW-4, and PFW-1):

AOI 03:	BH-3-7-00 (tetrachloroethene)
AOI 08:	PFB-7 (arsenic)
AOI 09:	BASE1 (nickel, total chromium) BASE2 (total chromium) BH-26A-01 (nickel, total chromium) BH-26C-01 (total chromium) BH-9-16B-00 (nickel) BH-9-24-00 (methylene chloride) BH-9-25-00 (magnesium, nickel) BH-9-3-00 (zinc) BH-9-4-00 (cobalt) F-30 (total cyanide) K-32 (total chromium)
AOI 11:	BH-11-3-00 (arsenic, cobalt, iron) BH-11-4-02 (arsenic) PFW-2 (arsenic)
AOI 18:	BH-18-1-00 (iron) BH-18-2-00 (aluminum, cobalt, iron, manganese) BH-18-3-00 (cobalt)
AOI 19:	BH-19-1-00 (cobalt) BH-19-7-00 (manganese)

Exceedances of Groundwater Criteria

With the exception of arsenic, monitoring well locations with historical exceedances of IDWC[B] in groundwater were resampled during the RFI and none of the results exceeded IDWC.

Historical perched water exceedances of cis-1,2-dichloroethene and/or trichloroethene at MW-14 and DSA_MW-01 were addressed in the closure of the former drum storage area and approved by the MDEQ in a letter dated March 24, 2005.

Therefore, with the exception of arsenic, none of these constituents (or their respective dissolved concentrations) are currently detected in perched water at concentrations exceeding IDWC[B].

A deed restriction on the potable use of groundwater will be implemented.

7.0 REFERENCES

"Interim Final RCRA Facility Investigation (RFI) Guidance", EPA 530/SW-89-031, Waste Management Division, Office of Solid Waste, U.S. EPA, May 1989.

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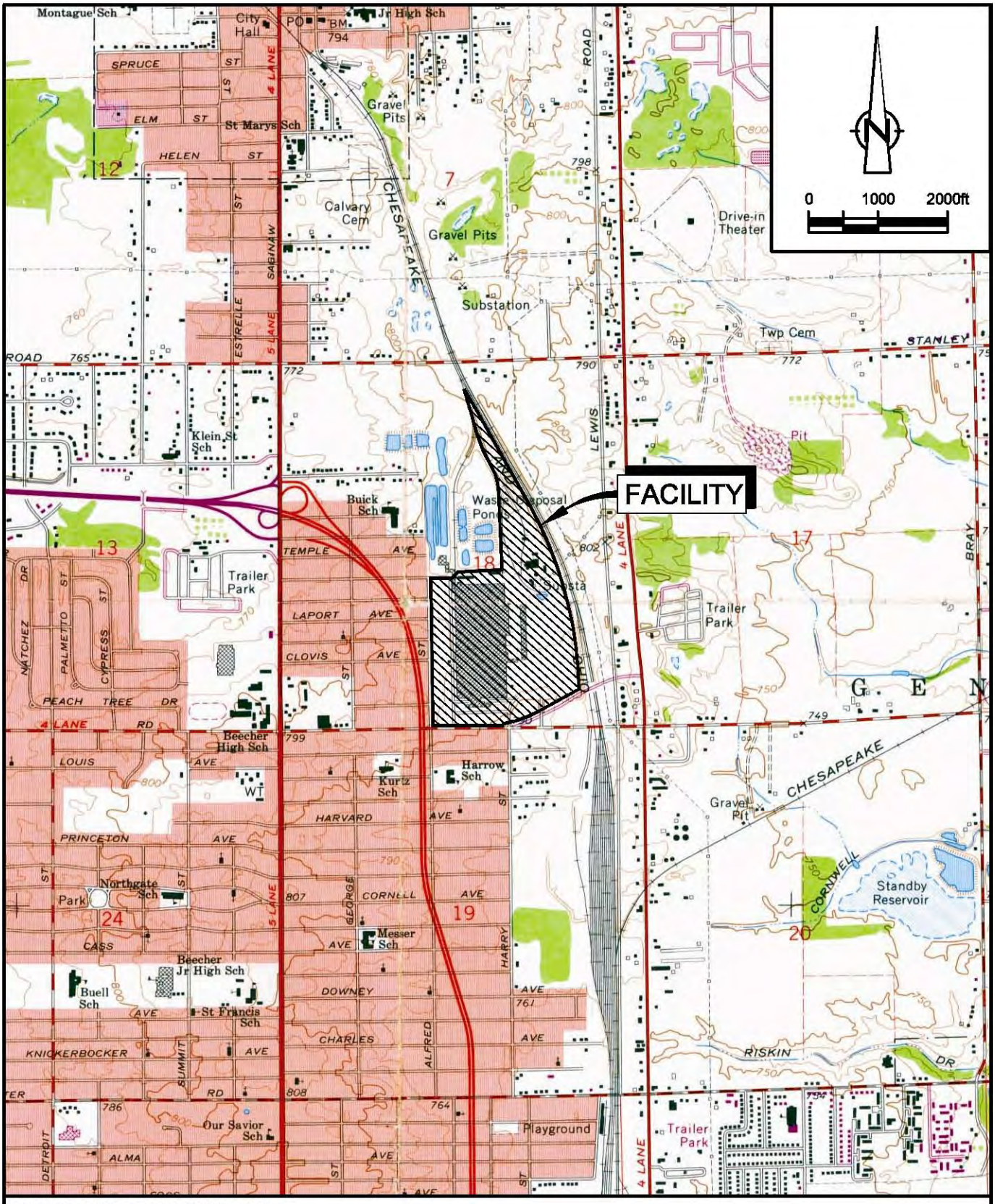
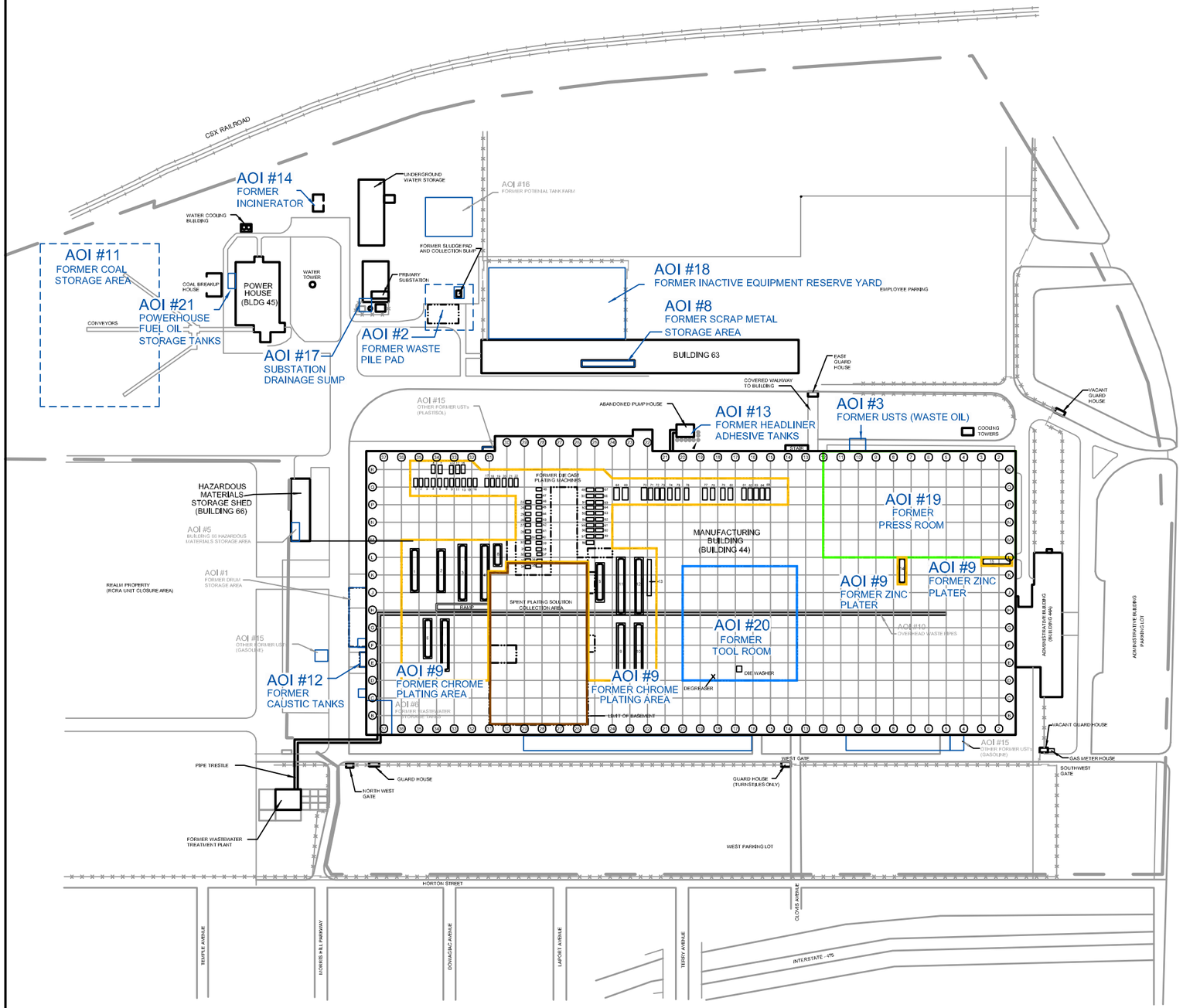


SOURCE: USGS QUADRANGLE MAP;
FLINT NORTH, MICHIGAN

figure 1.1

FACILITY LOCATION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA006 AUG 11/2004



0 100 300ft

LEGEND

PROPERTY BOUNDARY

FENCE LINE

AOI DESCRIPTION

AOI #2	FORMER WASTE PILE PAD
AOI #3	FORMER USTs
AOI #8	FORMER SCRAP METAL STORAGE AREA
AOI #9	FORMER PLATING AREAS
AOI #11	FORMER COAL STORAGE AREA
AOI #12	FORMER CAUSTIC TANKS
AOI #13	FORMER HEADLINER ADHESIVE TANKS
AOI #14	FORMER INCINERATOR
AOI #17	SUBSTATION DRAINAGE SUMP
AOI #18	FORMER INACTIVE EQUIPMENT RESERVE YARD
AOI #19	FORMER PRESS ROOM
AOI #20	FORMER TOOL ROOM
AOI #21	POWERHOUSE FUEL OIL STORAGE TANKS

NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
2. DRAWING No. 1795W BUICK MOTOR DIVISION SHEET No. 1M WAS USED AS A REFERENCE DRAWING.

figure 1.2

FACILITY PLAN AND AOI LOCATIONS ADDRESSED IN RFI
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

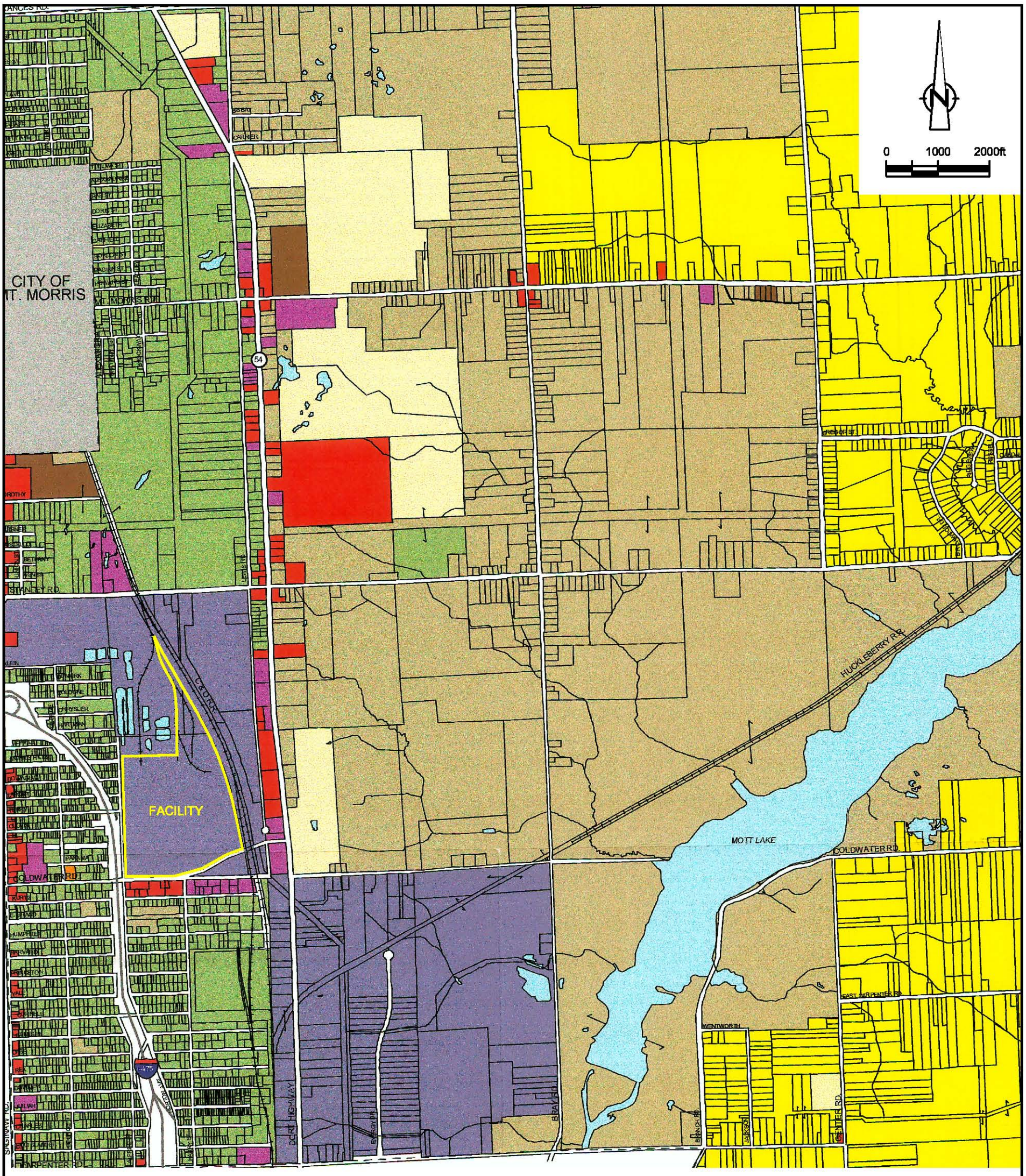
LEGEND

PROPERTY LINE

figure 1.3

AERIAL PHOTOGRAPH OF FACILITY (MARCH 25, 2000)
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA020 JAN 10/2005



LEGEND

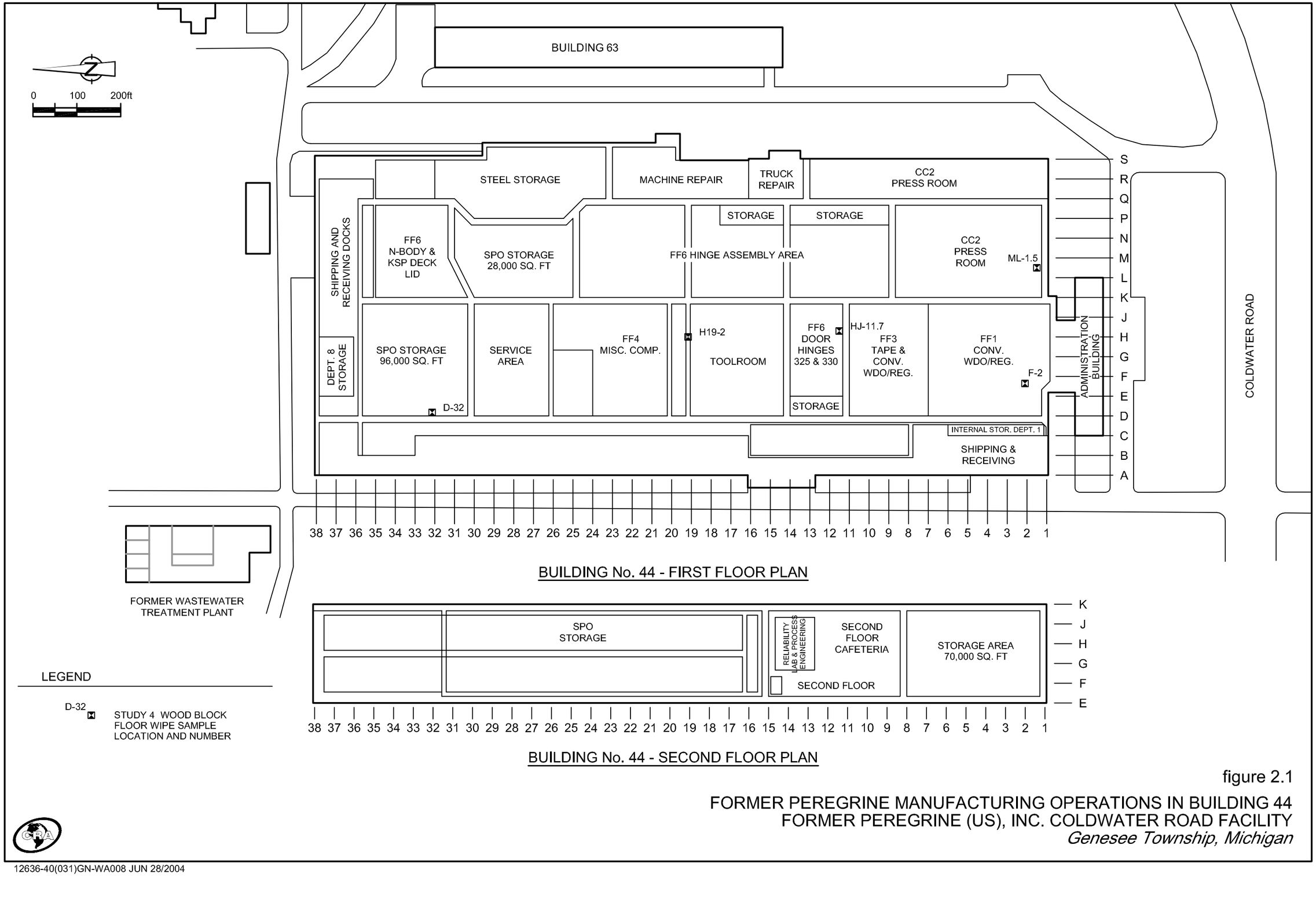
- A-R AGRICULTURAL/RURAL RESIDENTIAL
- R-1 SINGLE-FAMILY RESIDENTIAL
- R-2 SINGLE-FAMILY/TWO-FAMILY RESIDENTIAL
- R-3 MULTIPLE-FAMILY RESIDENTIAL
- R-4 MANUFACTURED HOME PARK
- C-1 NEIGHBORHOOD COMMERCIAL
- C-2 HIGHWAY COMMERCIAL
- I-1 LIGHT INDUSTRIAL
- I-2 HEAVY INDUSTRIAL
- FACILITY BOUNDARY

SOURCE:
ZONING MAP OF CHARTER TOWNSHIP OF GENESEE, MICHIGAN
WADE-TRIM, 3933 MONITOR ROAD, BAY CITY, MICHIGAN 48706
EFFECTIVE DATE JANUARY 1, 2003, AMENDED SEPTEMBER 26, 2005.

figure 1.4

GENESEE TOWNSHIP ZONING MAP
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA048 APR 16/2010



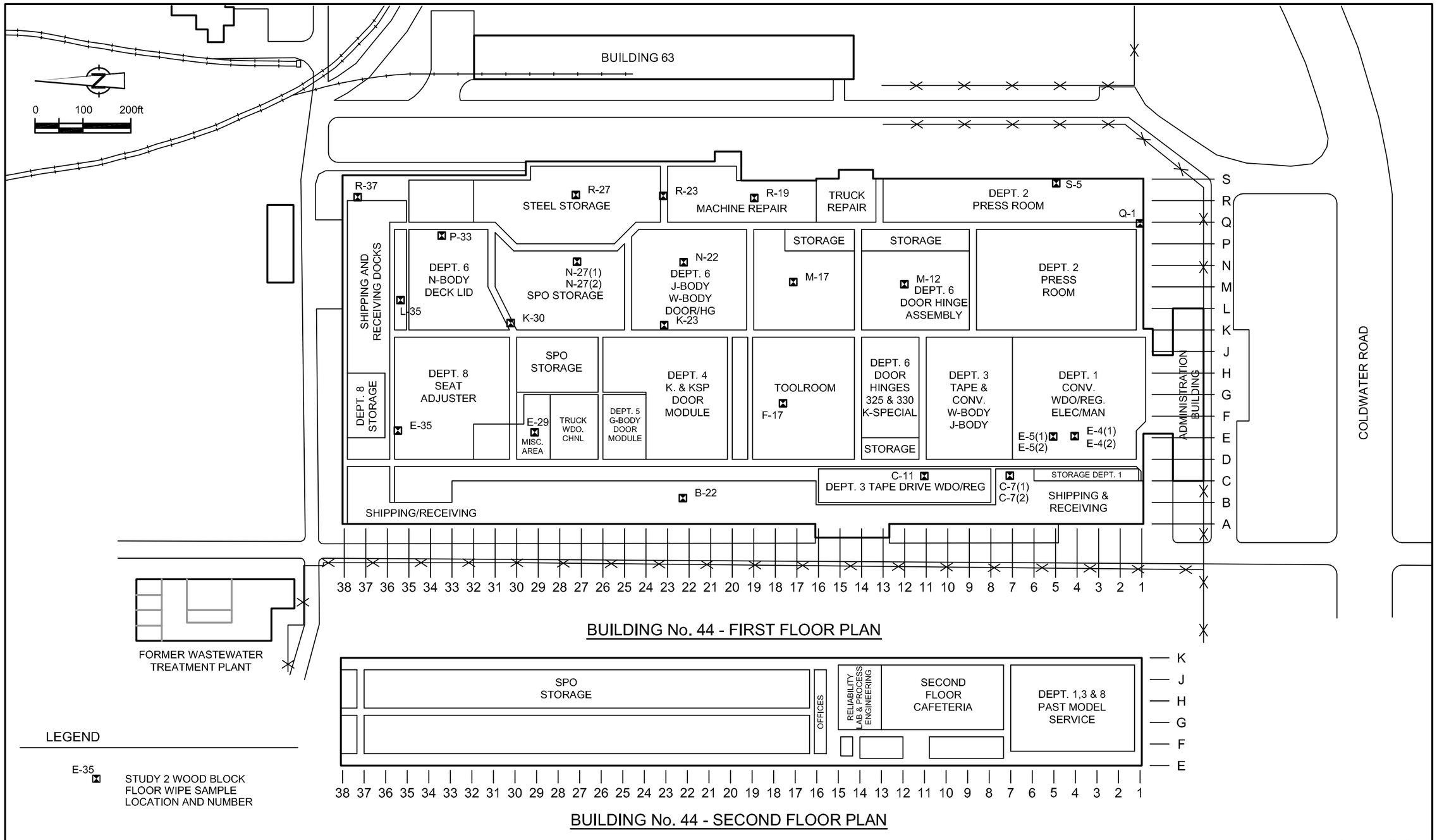
BUILDING No. 44 - FIRST FLOOR PLAN

BUILDING No. 44 - SECOND FLOOR PLAN

figure 2.1

FORMER PEREGRINE MANUFACTURING OPERATIONS IN BUILDING 44
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA008 JUN 28/2004



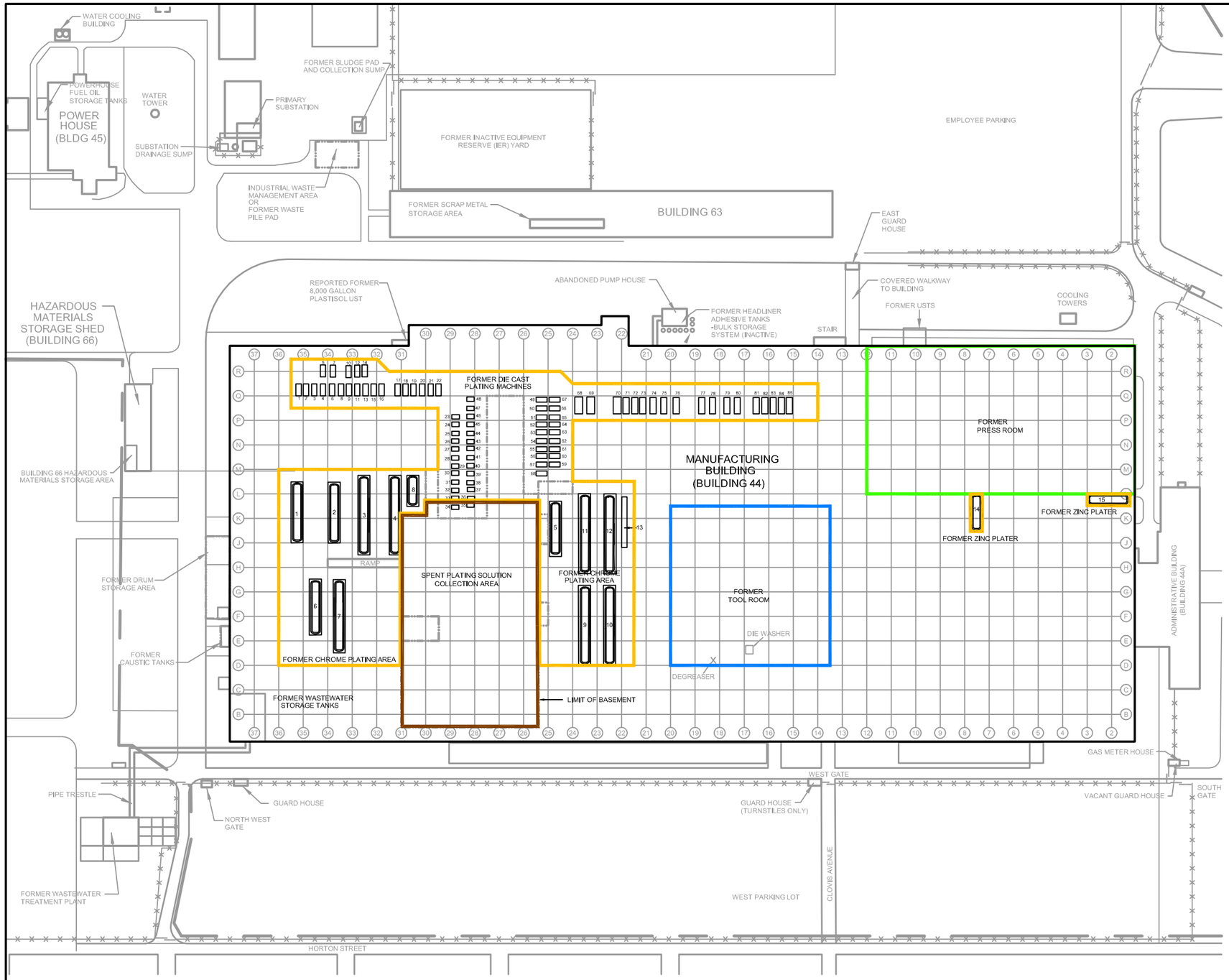
BUILDING No. 44 - FIRST FLOOR PLAN

BUILDING No. 44 - SECOND FLOOR PLAN

figure 2.2

FORMER DELPHI MANUFACTURING OPERATIONS IN BUILDING 44
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA009 JUN 28/2004



LEGEND

PROPERTY BOUNDARY

FENCE LINE

DESCRIPTION OF FORMER PLATING MACHINES

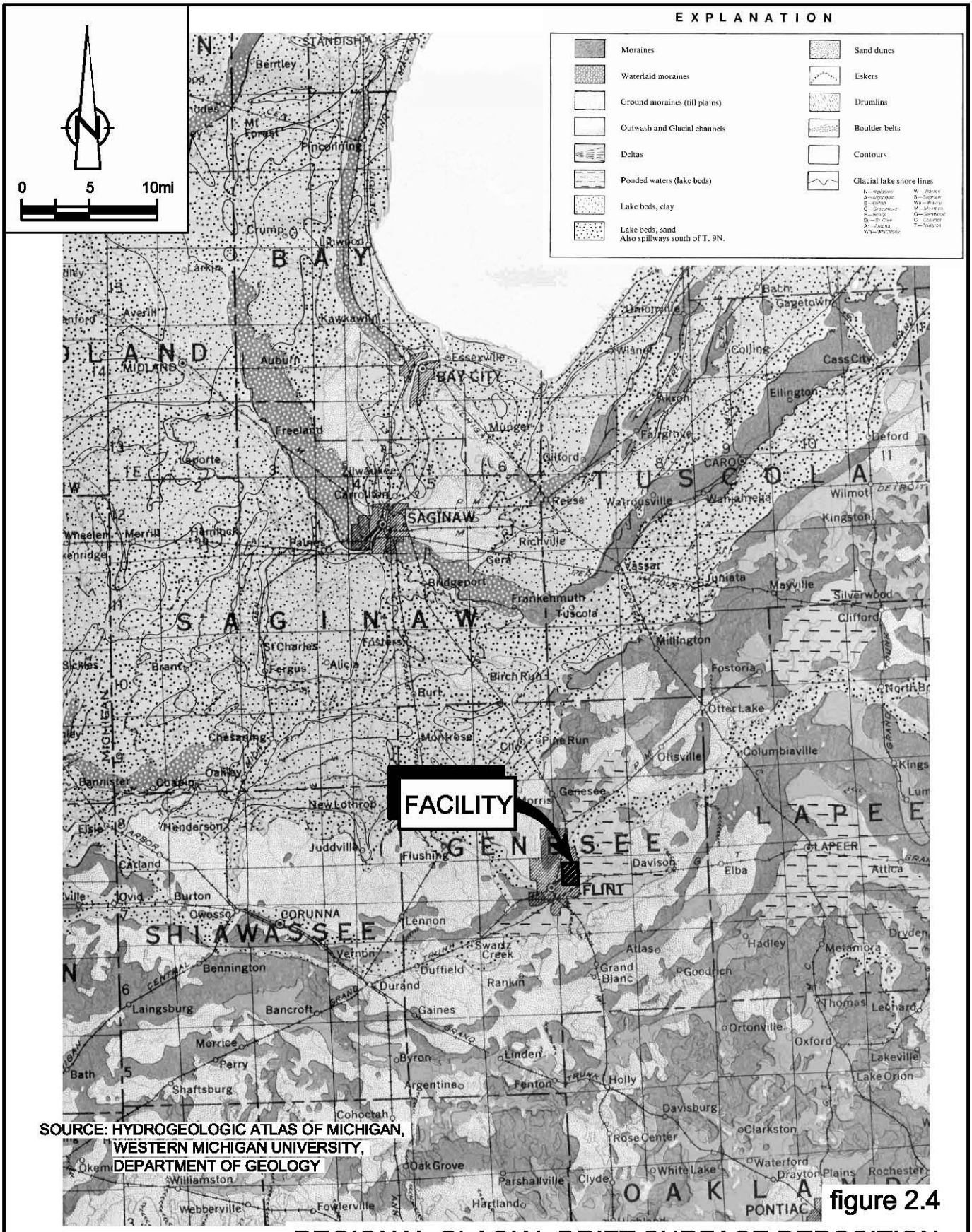
1. HANSON VAN WINKLE PLATING MACHINE #1
2. HANSON VAN WINKLE CHROME PLATER #2
3. STEVENS COPPER NICKEL CHROME PLATING MACHINE #3
4. STEVENS COPPER NICKEL CHROME PLATING MACHINE #4
5. HANSON VAN WINKLE PLATING MACHINE #5
6. #6 NICKEL PLATING MACHINE
7. #7 COPPER PLATING MACHINE
8. UDYLITE JUNIOR #8
9. UDYLITE #9 DUAL NICKEL DULA CHROME PLATER
10. UDYLITE #10 DUAL NICKEL DULA CHROME PLATER
11. HANSON VAN WINKLE PLATER #11
12. HANSON VAN WINKLE PLATER #12
13. CINCINNATI PARTS WASHER (STILL PLATER #13)
14. STEVENS BARREL ZINC PLATER
15. INACTIVE ZINC BARREL PLATING UNIT

NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
2. DRAWING No. 1795W BUICK MOTOR DIVISION SHEET No. 1M WAS USED AS A REFERENCE DRAWING.
3. LOCATIONS OF GENERAL MOTORS RCRA UNIT CLOSURE MONITORING WELLS (i.e. B-WELLS) ARE APPROXIMATE

figure 2.3

FORMER PLATING AND DIE CAST OPERATION AREAS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN, WESTERN MICHIGAN UNIVERSITY, DEPARTMENT OF GEOLOGY

figure 2.4

REGIONAL GLACIAL DRIFT SURFACE DEPOSITION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA011 JAN 10/2005

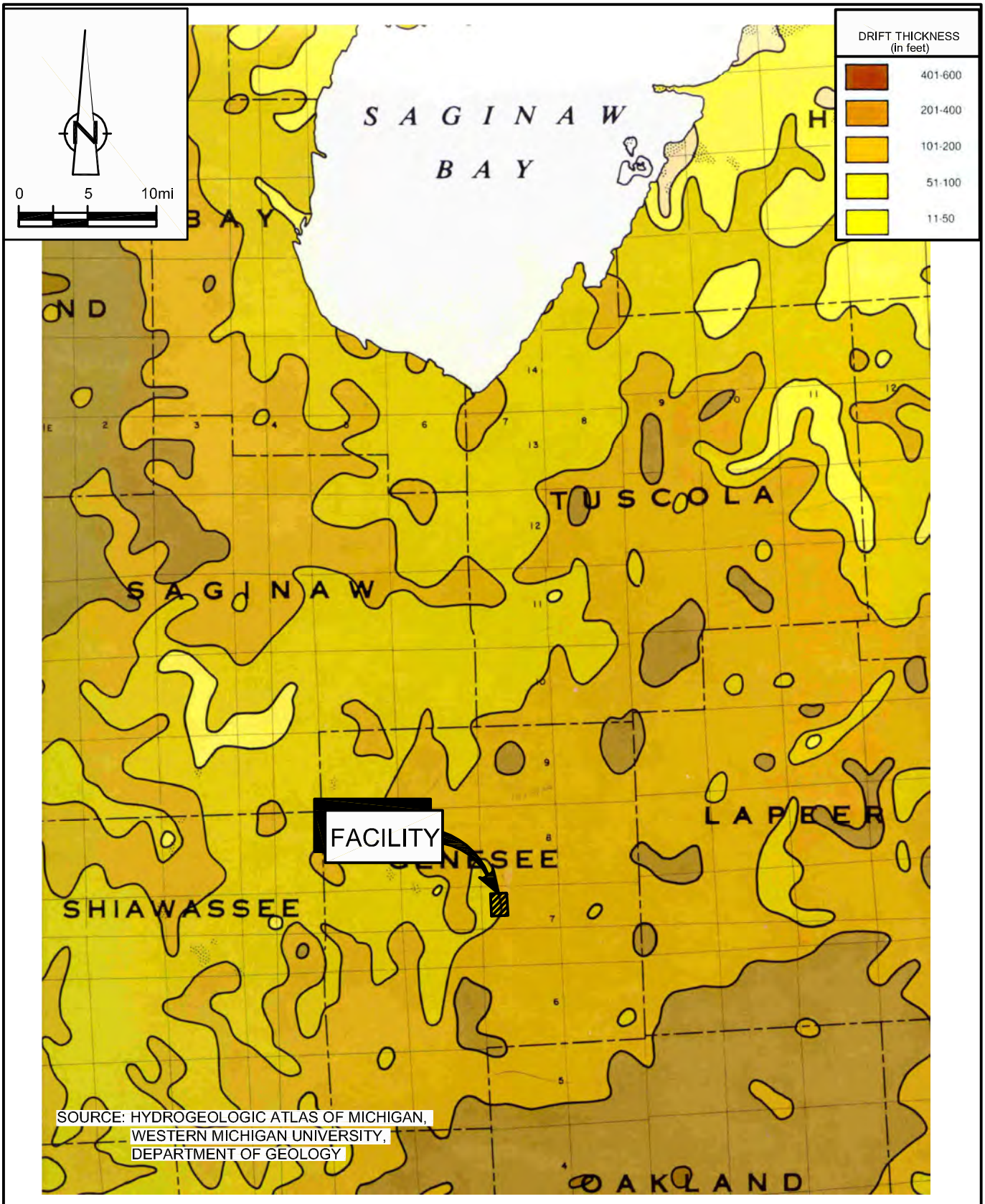
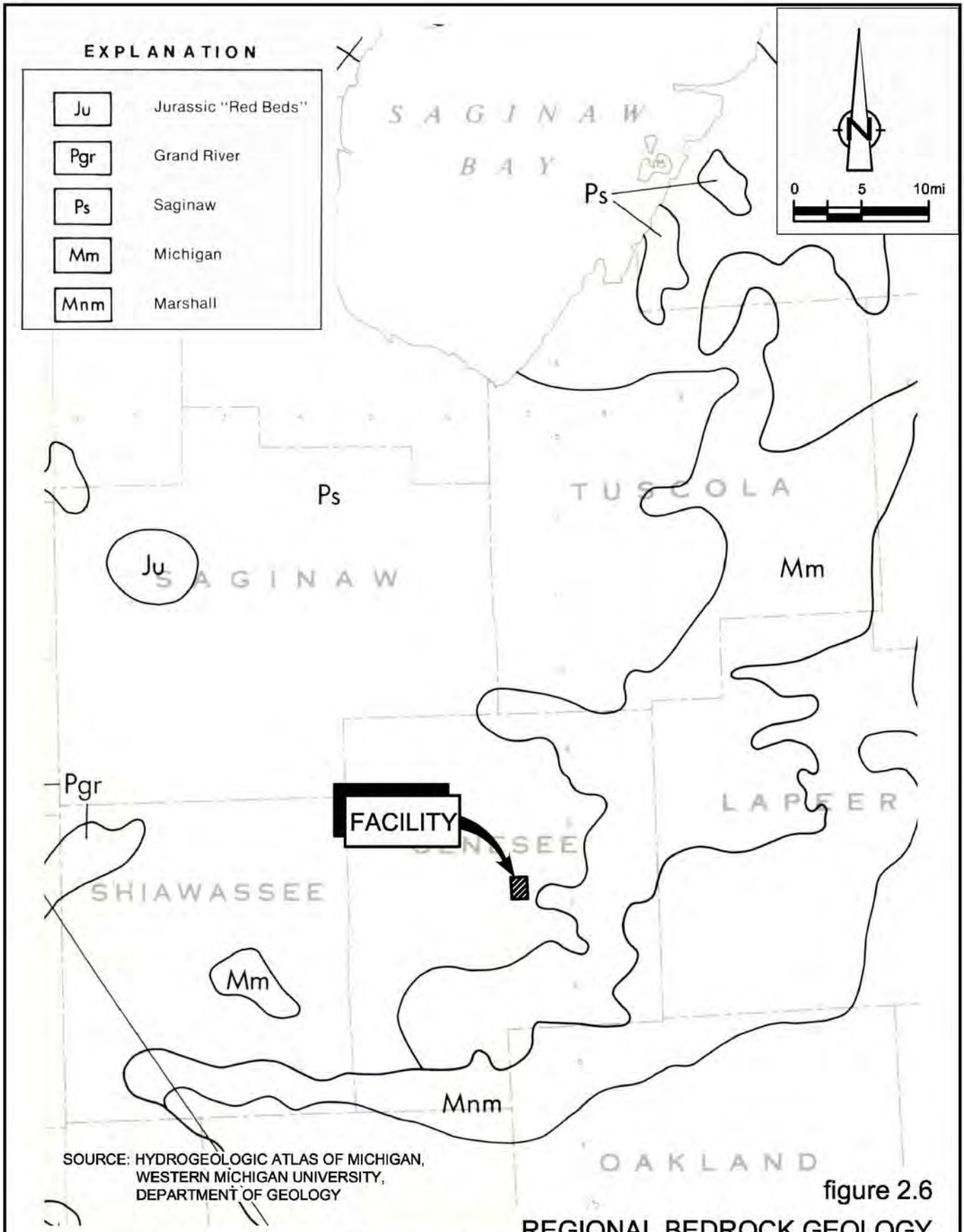


figure 2.5

REGIONAL GLACIAL DRIFT THICKNESS
FORMER PEREGRINE (U.S.), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN, WESTERN MICHIGAN UNIVERSITY, DEPARTMENT OF GEOLOGY

figure 2.6

REGIONAL BEDROCK GEOLOGY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA013 JAN 10/2005

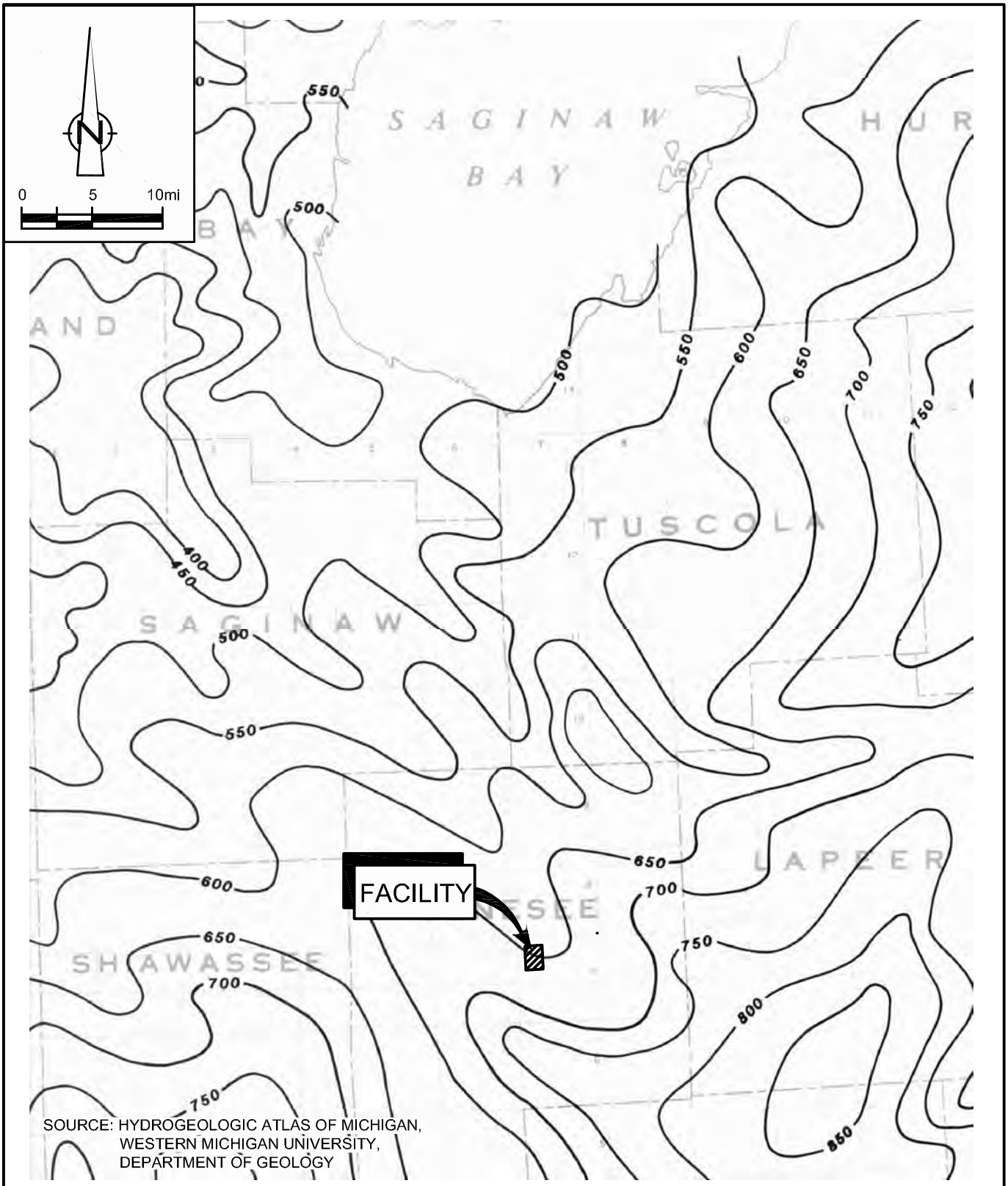


figure 2.7

REGIONAL BEDROCK TOPOGRAPHY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

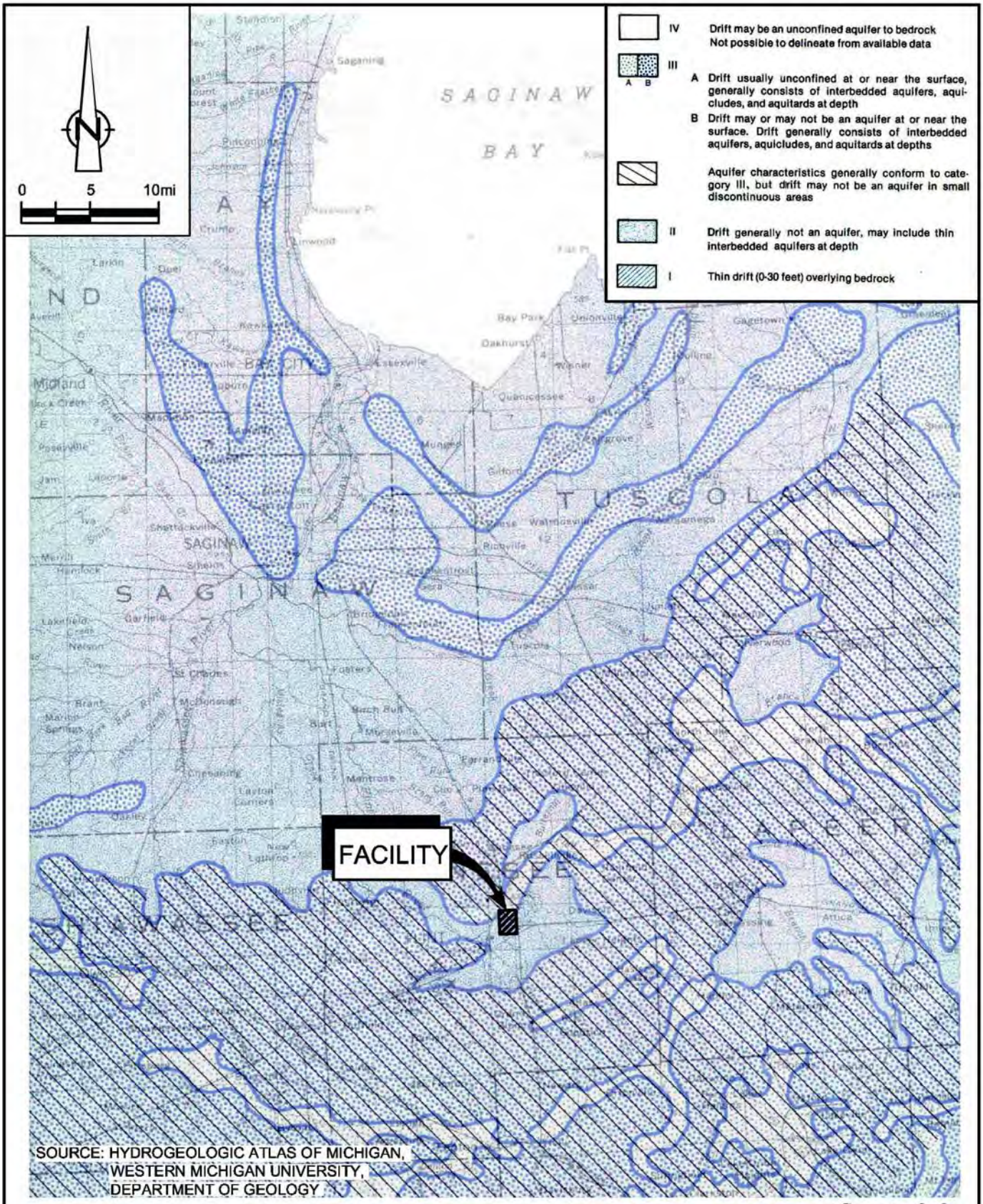
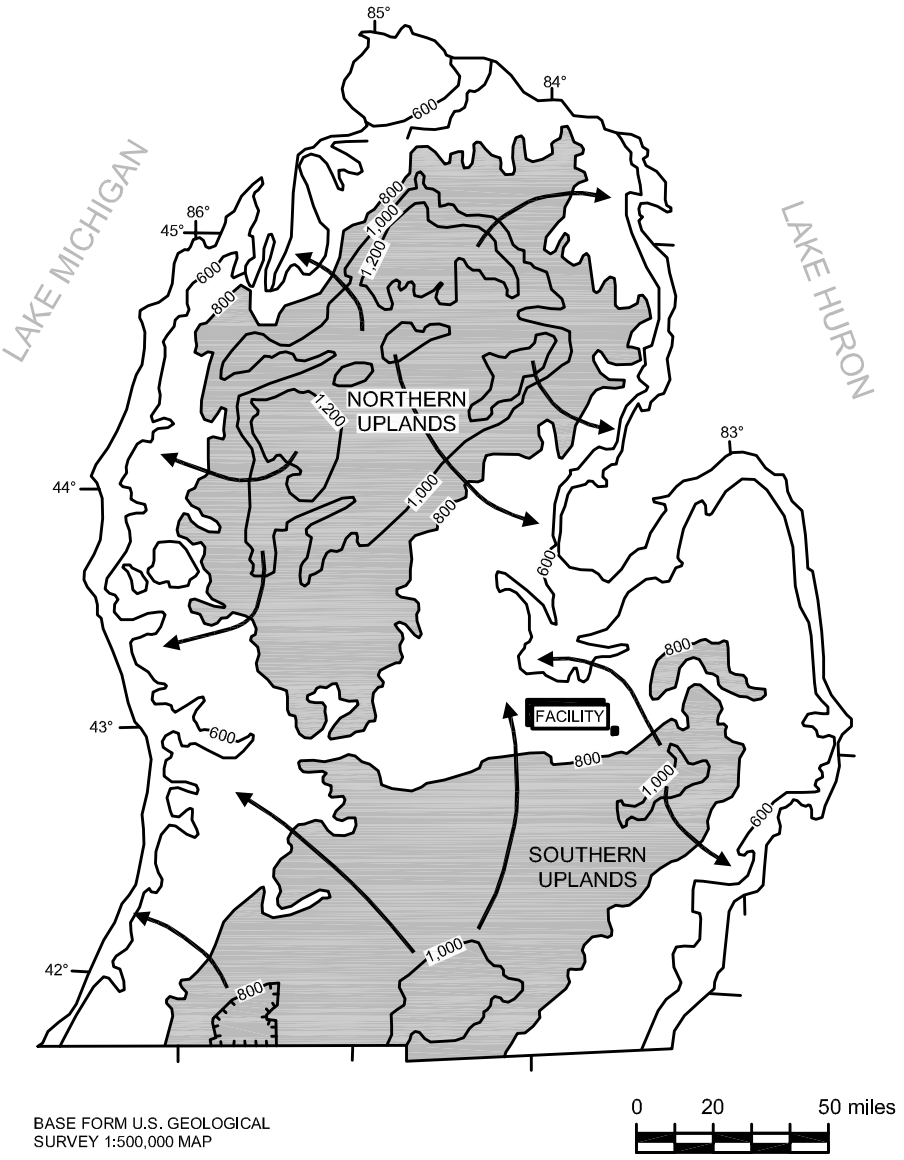


figure 2.8

REGIONAL GLACIAL DRIFT AQUIFER CHARACTERIZATION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA015 JAN 10/2005



BASE FORM U.S. GEOLOGICAL SURVEY 1:500,000 MAP

LEGEND

AREA WERE WATER-TABLE ALTITUDE IS GREATER THAN 800 FEET ABOVE SEA LEVEL

800 — WATER-TABLE CONTOUR - SHOWS EQUAL ALTITUDE OF WATER TABLE. HACHURE INDICATES DEPRESSION. CONTOUR INTERVAL 200 FEET. DATUM IS SEA LEVEL.

GROUNDWATER FLOW - ARROW INDICATES DIRECTION OF FLOW

NOTE:

GENERAL WATER-TABLE CONFIGURATION FOR THE GLACIOFLUVIAL AQUIFER IN THE LOWER PENINSULA OF MICHIGAN. (MODIFIED FROM MANDLE AND WESTJOHN, 1989, FIG. 10.)

figure 2.9

REGIONAL GROUNDWATER FLOW
FORMER PERERGINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA017 JAN 10/2005

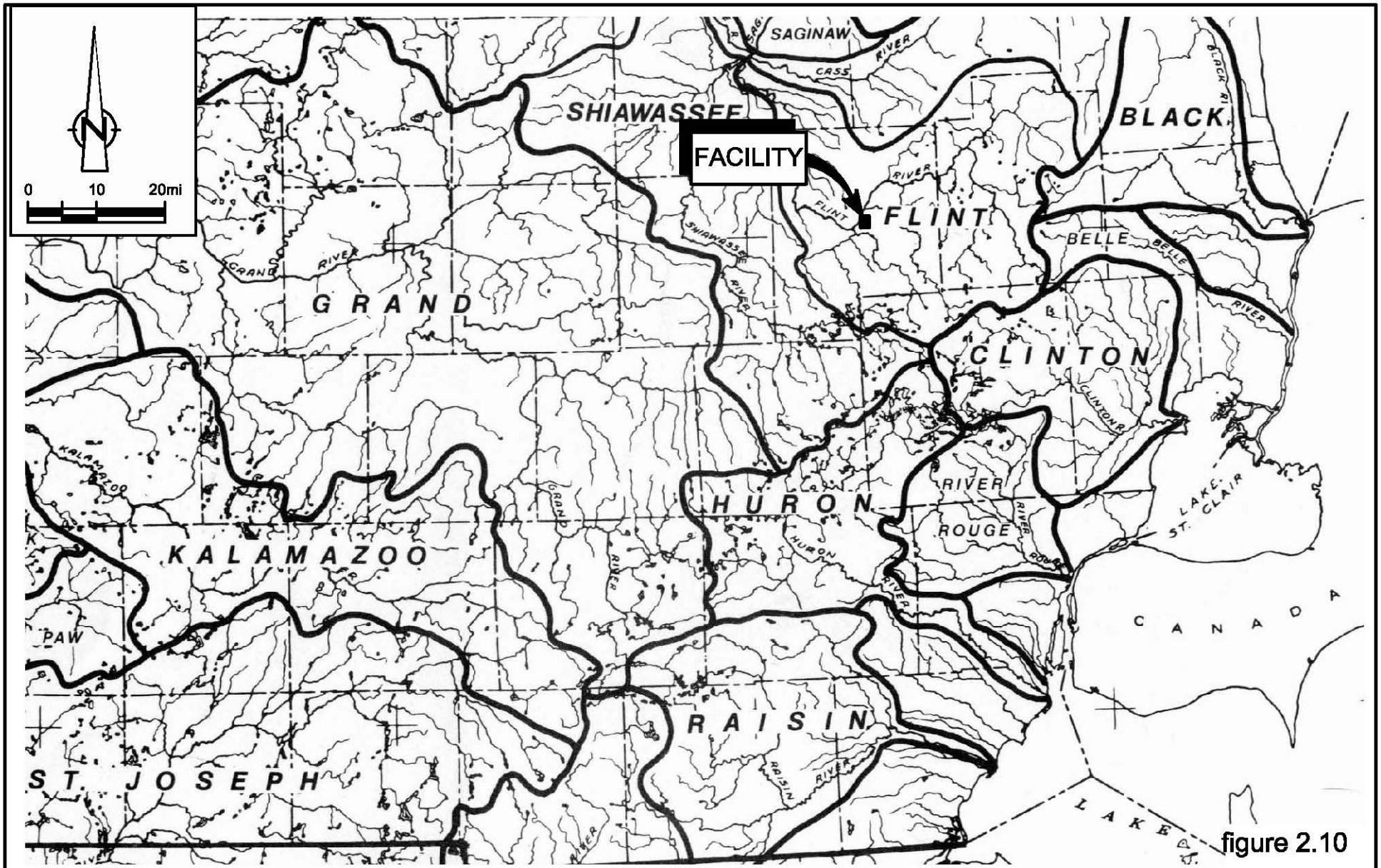


figure 2.10

SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN,
WESTERN MICHIGAN UNIVERSITY,
DEPARTMENT OF GEOLOGY

REGIONAL RIVER DRAINAGE BASINS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA016 JAN 10/2005

GEOLOGIC UNIT	HYDROGEOLOGIC UNIT	GROUNDWATER DESCRIPTION	THICKNESS (FEET)
SILTY SAND (FILL)	PERCHED WATER TABLE ZONE	UNCONFINED PERCHED WATER TABLE	0 - 10
CLAY (TILL)	UPPER CONFINING UNIT	AQUITARD / AQUICLUDE	~55
SAND/ SILTY SAND	OVERBURDEN WATER BEARING ZONE DRIFT AQUIFER	UNCONFINED / SEMI-CONFINED	~14
SILT/ CLAY (TILL)	LOWER CONFINING UNIT	AQUITARD	30-75 (BASED ON REGIONAL INFORMATION)
SANDSTONE/ LIMESTONE/ SHALE	BEDROCK WATER BEARING ZONE	CONFINED	100+ (BASED ON REGIONAL INFORMATION)

figure 5.1

TYPICAL GEOLOGIC CROSS-SECTION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA040 JUN 30/2004

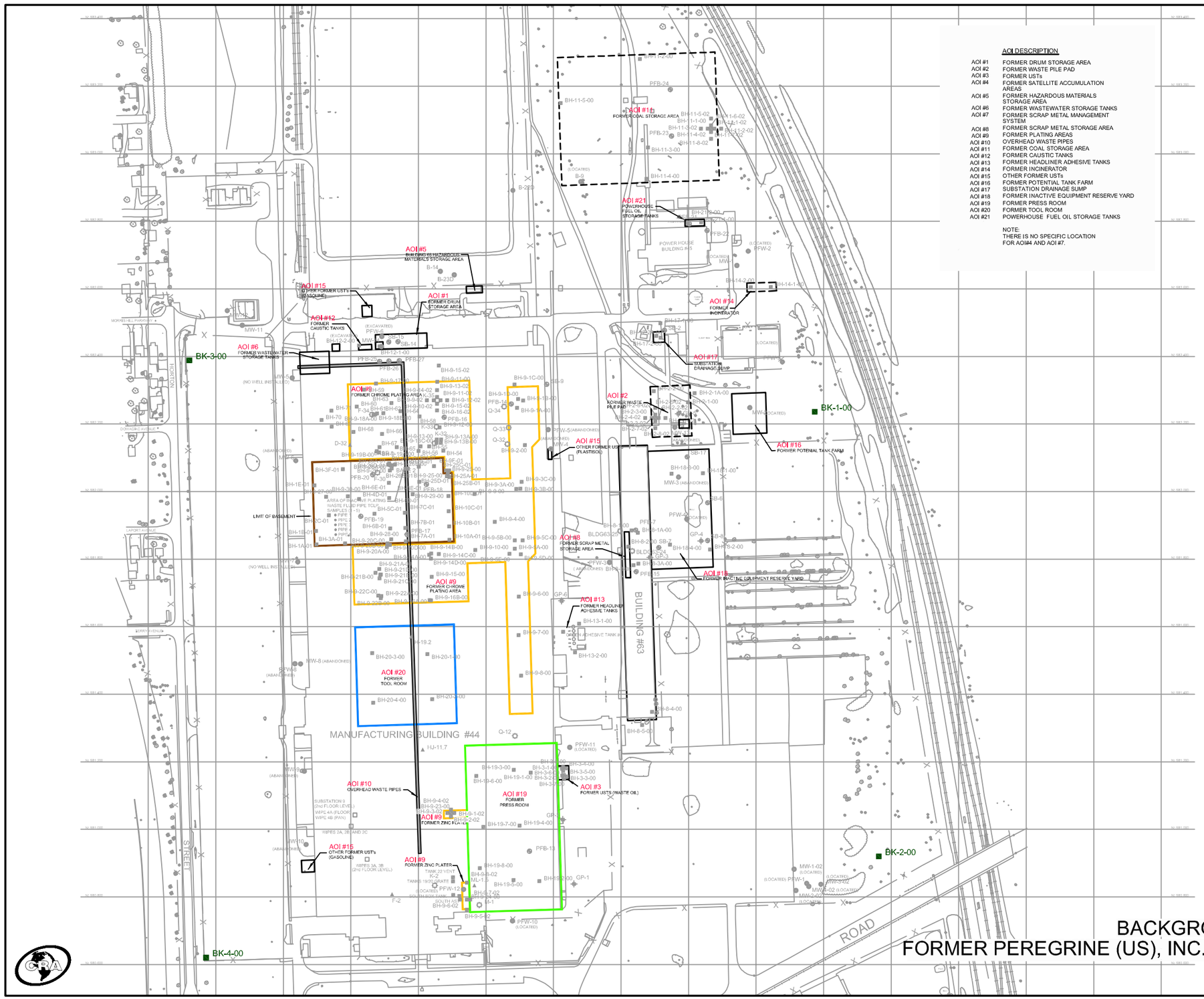


figure 5.2

BACKGROUND BOREHOLE LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA021 JAN 10/2005

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-01)
Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: REALM
LOCATION: FLINT, MICHIGAN

HOLE DESIGNATION: BK-1-00
DATE COMPLETED: MAY 24, 2000
DRILLING METHOD: GEOPROBE
CRA SUPERVISOR: D. DEITNER

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	807.6					
0	ML-SILT (TILL), trace to with clay, trace gravel, medium dense, fine grained, low plasticity, brown, moist		GS	1GP			0
-2.5							
-5.0	CL-CLAY (TILL), with silt, trace gravel, very stiff, low plasticity, brown, moist	803.8	BACKFILLED WITH BENTONITE CHIPS AND CUTTINGS				
-7.5	- stiff, gray - becoming gray-brown mottled		HC GS	2GP			0
-10.0	ML-SILT (TILL), with clay, trace gravel, dense, fine grained, low plasticity	798.6 797.6					
	CL-CLAY (TILL), trace to with silt, trace gravel, stiff, low plsticity, beige-brown, moist						
-12.5	- with to silty clay, beige - trace to with silt, beige-brown			3GP			0
-15.0			2" Ø BOREHOLE				
	ML-SILT (TILL), with clay, trace gravel, dense, low plasticity, brown, moist	792.1					
-17.5	CL-CLAY (TILL), trace silt, trace gravel, stiff, low plasticity, gray, moist	790.6		4GP			0
-20.0	- red sandstone - red-gray-brown mottling						
-22.5				5GP			0
	- trace to with silt, gray-brown, mottling						
-25.0	SM-SAND, with silt, compact, fine grained, poorly graded, brown, wet	782.6					
	CL-CLAY, with silt, stiff, low plasticity, brown, moist	781.1					
-27.5	SM-SAND, trace to with silt, compact, fine grained, poorly graded, brown, moist	779.6 779.2		6GP			0
-30.0	CL-CLAY, trace silt, stiff, low plasticity, gray, moist	778.5 778.3					
	SM-SAND, with silt, compact, fine grained, poorly graded, brown, moist	777.6					
-32.5	CL-CLAY, with silt, trace gravel, stiff, brown, moist						
	END OF HOLE @ 30.0ft BGS						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-02)
Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: REALM
LOCATION: FLINT, MICHIGAN

HOLE DESIGNATION: BK-2-00
DATE COMPLETED: MAY 24, 2000
DRILLING METHOD: GEOPROBE
CRA SUPERVISOR: K. VANDER MEULEN

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	808.0					
0	TOPSOIL	807.5	GS	1GP			0
-2.5	ML-SILT (TILL), little to trace clay, trace gravel, medium dense, beige, moist - little clay						
-5.0			BACKFILLED WITH BENTONITE CHIPS AND CUTTINGS				
-7.5	CL-CLAY, little silt, stiff, medium plasticity, gray, moist	802.0 801.5		2GP			0
	ML-SILT (TILL), little to some clay throughout, trace gravel, trace fine sand, medium dense, brown, moist	798.7					
-10.0	CL-CLAY (TILL), little to some silt, trace gravel, stiff, low to medium plasticity, gray, moist		GS HC				
-12.5	- mottled gray/brown, very moist			3GP			0
-15.0	- brown/gray		2" Ø BOREHOLE				
-17.5	- 2" sand seam - gray			4GP			0
-20.0	ML-SILT (TILL), little clay, trace gravel, medium dense, brown, moist - little fine sand, moist	787.5					
-22.5				5GP			0
	CL-CLAY (TILL), little silt, trace gravel, stiff, low to medium plasticity, gray, moist	784.0					
-25.0	SM-SAND, some silt, trace gravel, medium dense, fine grained, poorly graded, brown, moist	782.5					
-27.5	CL-CLAY (TILL), some silt, trace gravel, stiff, low plasticity, brown/gray, moist	781.0		6GP			0
-30.0	END OF HOLE @ 30.0ft BGS	778.0					
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-03)
Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: REALM
LOCATION: FLINT, MICHIGAN

HOLE DESIGNATION: BK-3-00
DATE COMPLETED: MAY 25, 2000
DRILLING METHOD: GEOPROBE
CRA SUPERVISOR: K. VANDER MEULEN

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	805.4					
0	ASPHALT	805.1					
	SW/GW-SAND and GRAVEL (FILL), little silt, medium dense, fine to medium grained, well graded, brown, very moist to wet			1GP			0
-2.5	CL-CLAY (TILL), some silt, trace gravel, firm, low to medium plasticity, brown, moist	802.4					
-5.0	- trace fine sand		GS BACKFILLED WITH BENTONITE CHIPS AND CUTTINGS HC				
-7.5				2GP			0
-10.0	- trace to little silt, trace gravel, firm, medium plasticity, gray, moist		GS				
-12.5				3GP			0
-15.0	- trace fine sand		2" Ø BOREHOLE				
	SM-SAND, some silt, medium dense, fine grained, poorly graded, gray, wet	789.3 788.7					
-17.5	CL-CLAY (TILL), trace to with silt, trace fine sand, trace gravel, firm, medium plasticity, gray, moist			4GP			0
-20.0	- no fine sand						
-22.5				5GP			0
-25.0							
-27.5				6GP			0
-30.0	END OF HOLE @ 30.0ft BGS	775.4					
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(WL-04)
Page 1 of 1

PROJECT NAME: FORMER PEREGRINE FACILITY
PROJECT NUMBER: 12636
CLIENT: REALM
LOCATION: FLINT, MICHIGAN

HOLE DESIGNATION: BK-4-00
DATE COMPLETED: MAY 25, 2000
DRILLING METHOD: GEOPROBE
CRA SUPERVISOR: D. DEITNER

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	812.8					
0	ASPHALT	812.4					
	SW/GW-SAND and GRAVEL (FILL), with silt, medium dense, fine to medium grained, good gradation, brown, moist	810.8		1GP			0
-2.5	CL-SILTY CLAY (TILL), trace gravel, stiff, low plasticity, brown, moist						
-5.0			GS BACKFILLED WITH BENTONITE CHIPS AND CUTTINGS HC				
-7.5	ML-SILT, with clay, trace coarse gravel, medium dense, fine grained, low plasticity, brown, moist	805.8		2GP			0
	- brown and gray mottling	804.4					
-10.0	CL-SILTY CLAY (TILL), trace coarse gravel, fine grained, low plasticity, gray, moist		GS				
-12.5	- with silt, trace gravel - trace silt, medium plasticity			3GP			0
-15.0			2" Ø BOREHOLE				
-17.5	- trace sand smearing - sand vein - trace fine gravel			4GP			0
-20.0	SC-SANDY CLAY, trace silt, trace fine gravel, medium dense, fine grained, poorly graded, low plasticity, gray, moist	792.3 791.8					
-22.5	CL-CLAY (TILL), trace to with silt, trace fine gravel, low plasticity, firm, gray, moist, occasional sand seams			5GP			0
-25.0							
-27.5				6GP			0
-30.0	END OF HOLE @ 30.0ft BGS	782.8					
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ⬭

LEGEND

GS GRAIN SIZE ANALYSIS
HC HYDRAULIC CONDUCTIVITY ANALYSIS

figure 5.3
BACKGROUND BOREHOLE STRATIGRAPHY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA022 JUN 28/2004

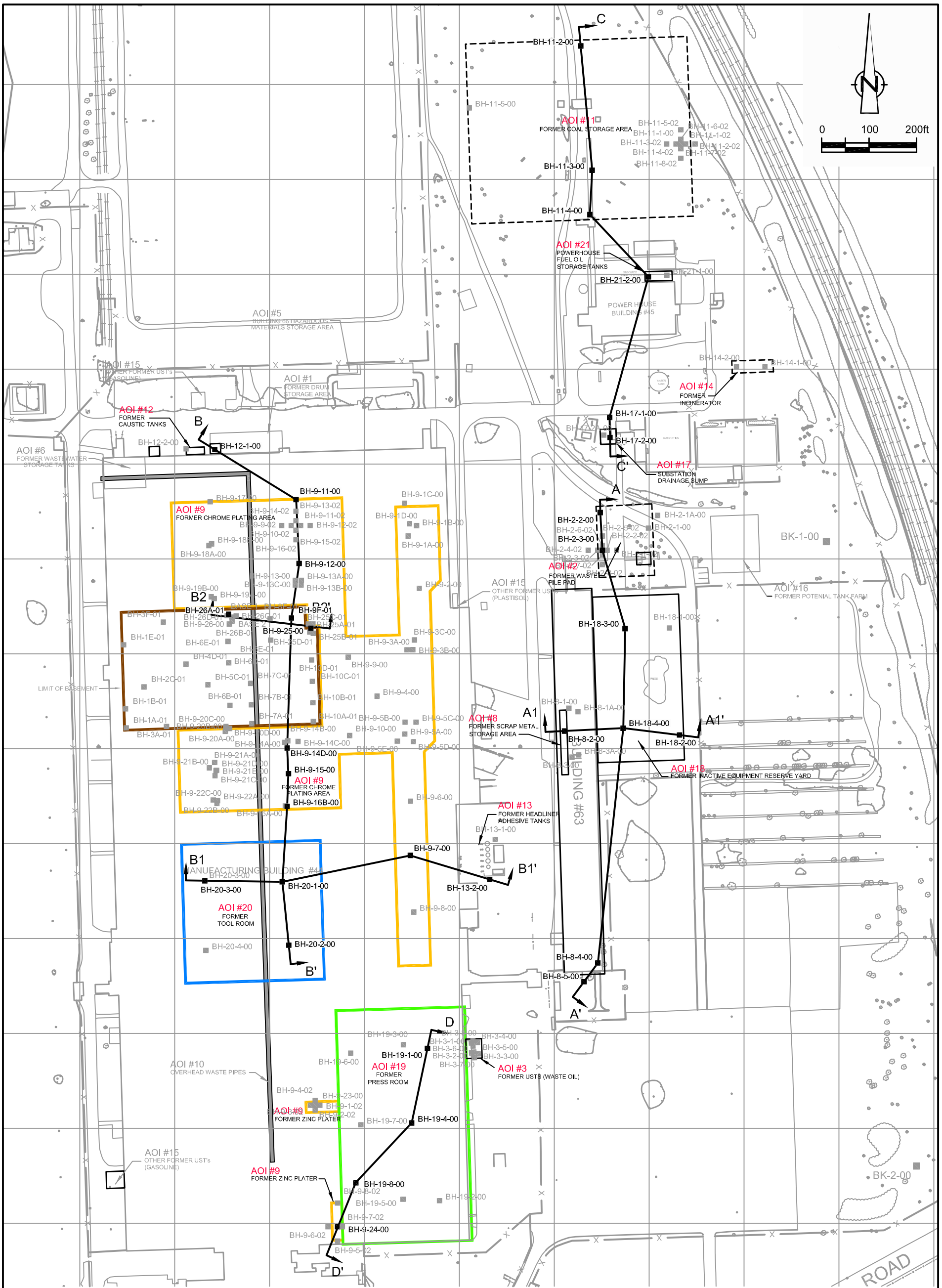


figure 5.4

GEOLOGIC CROSS-SECTIONS AND AOI LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA025 MAR 16/2010

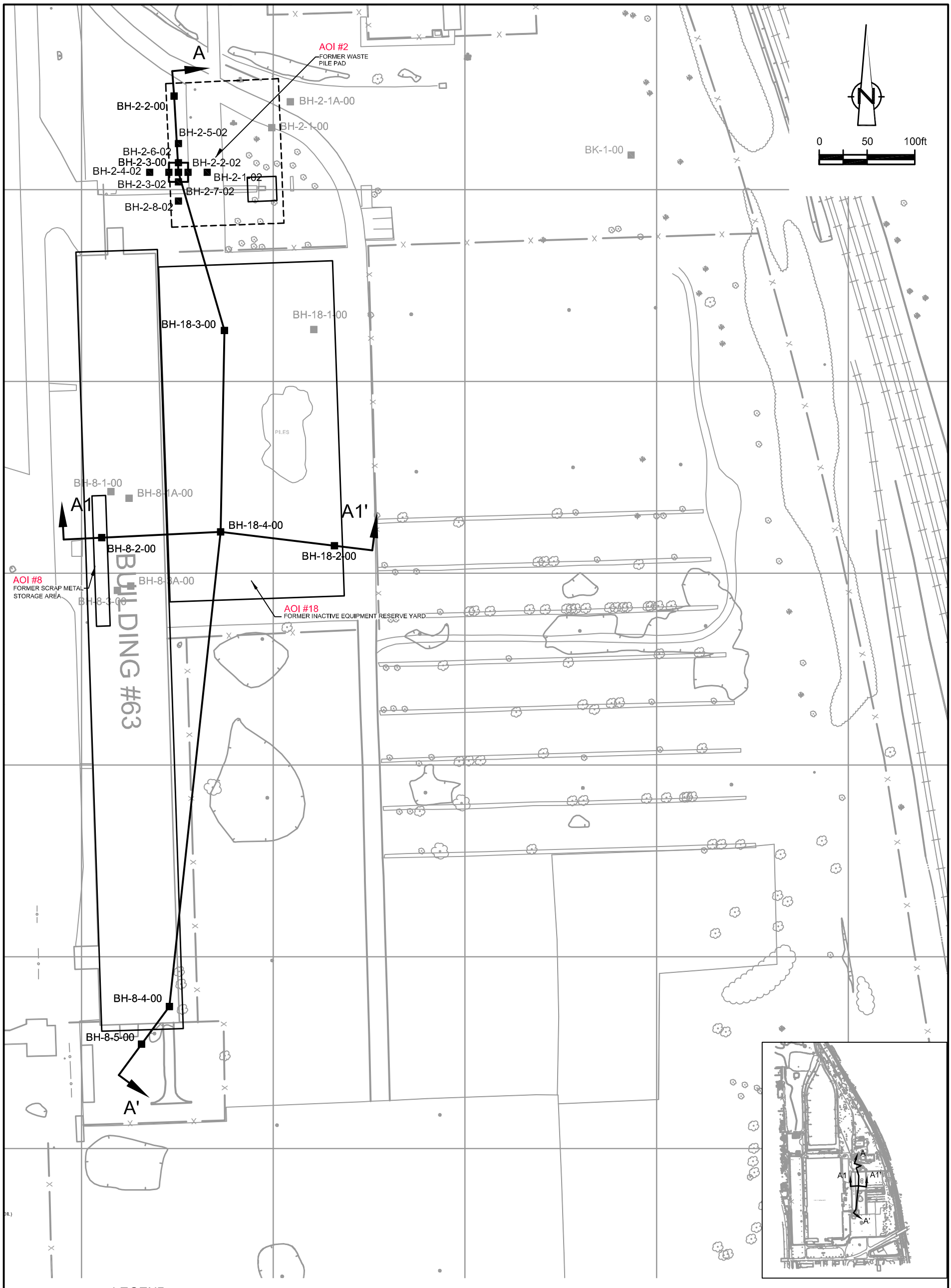
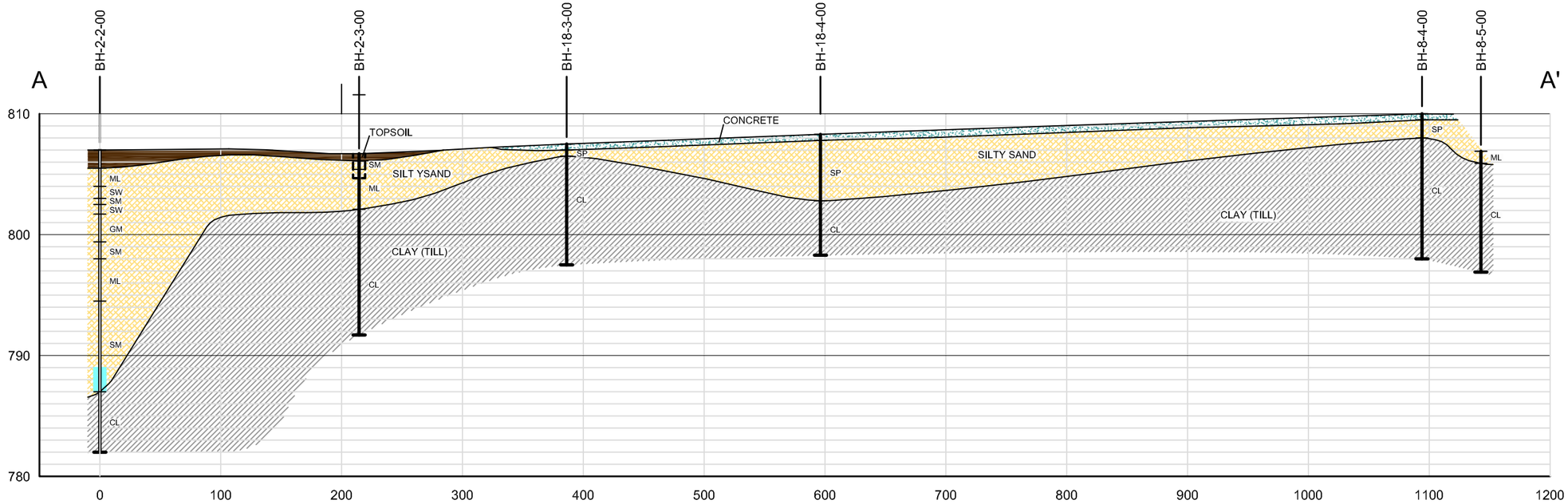


figure 5.5

GEOLOGIC CROSS SECTIONS A-A', AND A1-A1', AND BOREHOLE LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genessee Township, Michigan

12636-40(031)GN-WA001 MAR 16/2010



SCALE: 1:100
1:10

LEGEND

- CONCRETE
- SILTY SAND
- CLAY (TILL)
- TOPSOIL
- SPOT EXCAVATION

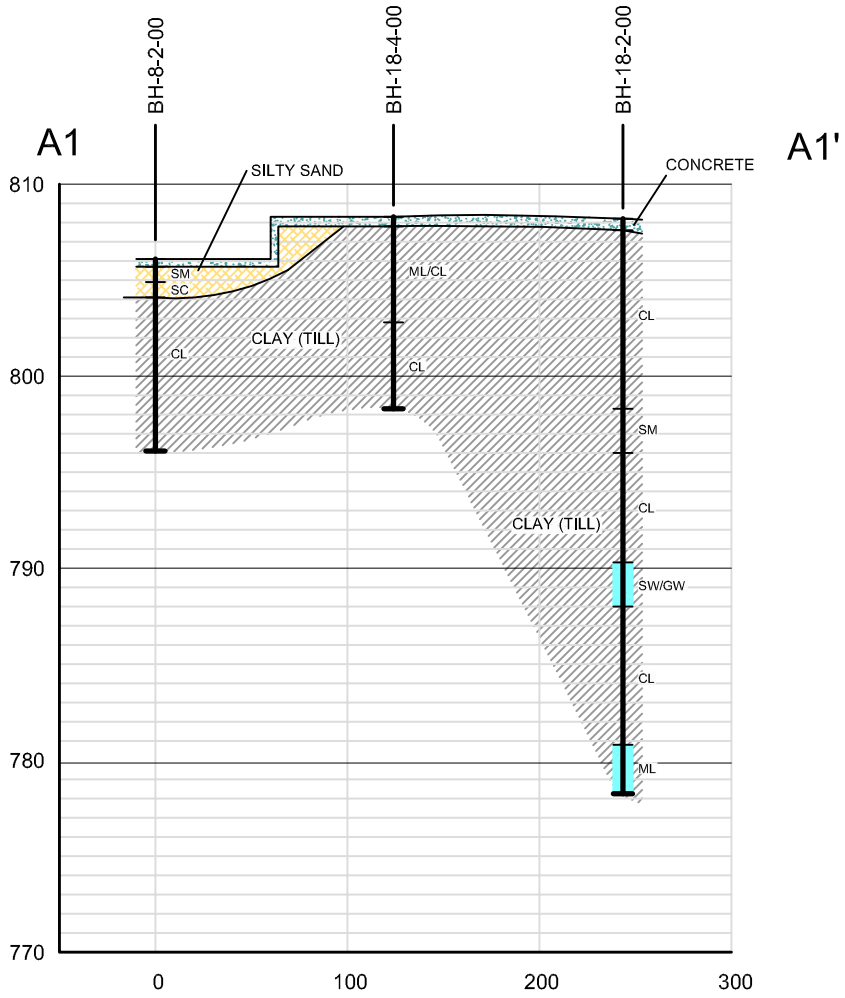
BH-19-8-00

- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.6

CROSS-SECTION A-A'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010



SCALE: 1:100
1:10

LEGEND

- CONCRETE
- SILTY SAND
- CLAY (TILL)

BH-19-8-00

- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.7

CROSS-SECTION A1-A1'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010

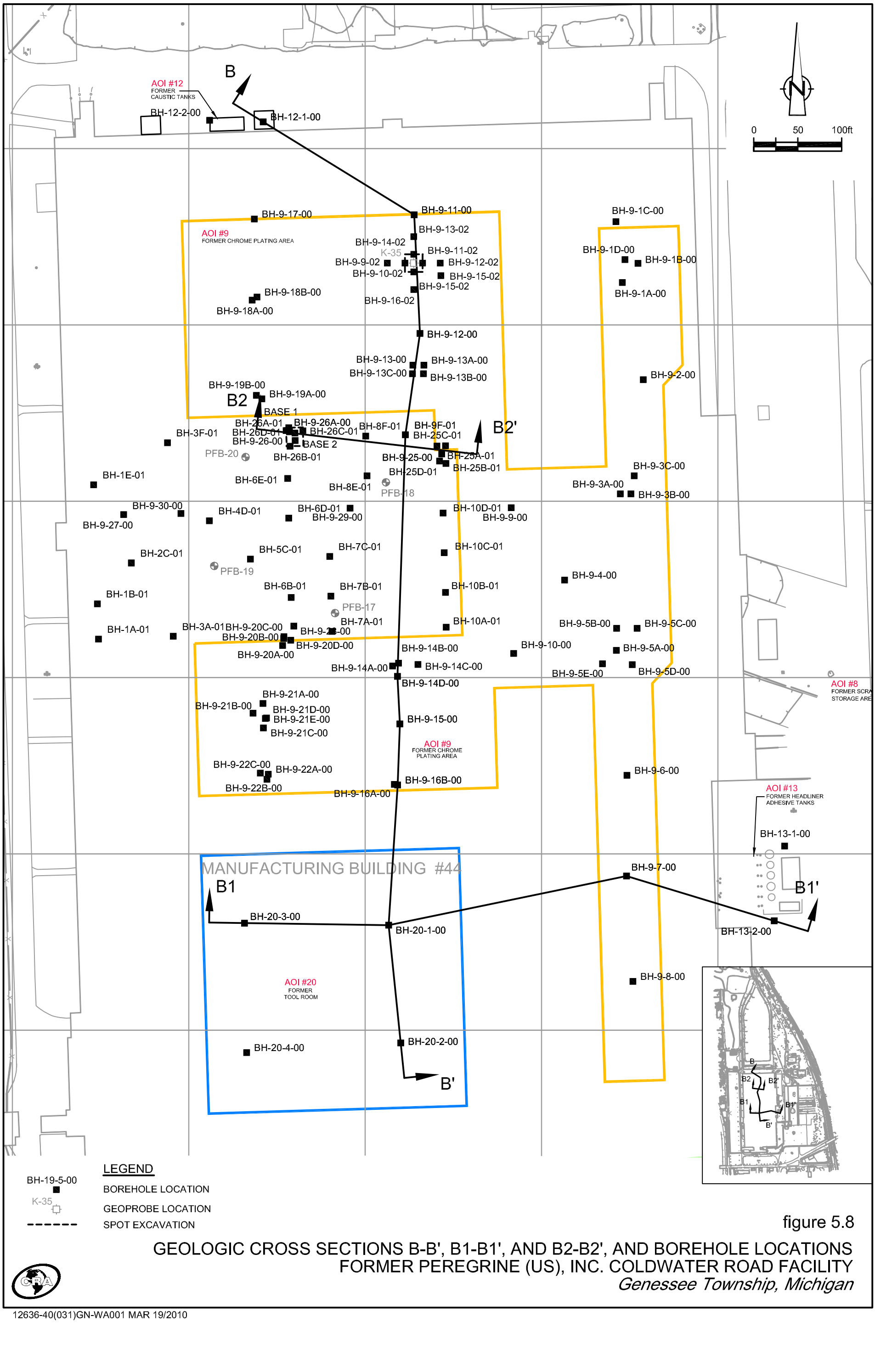
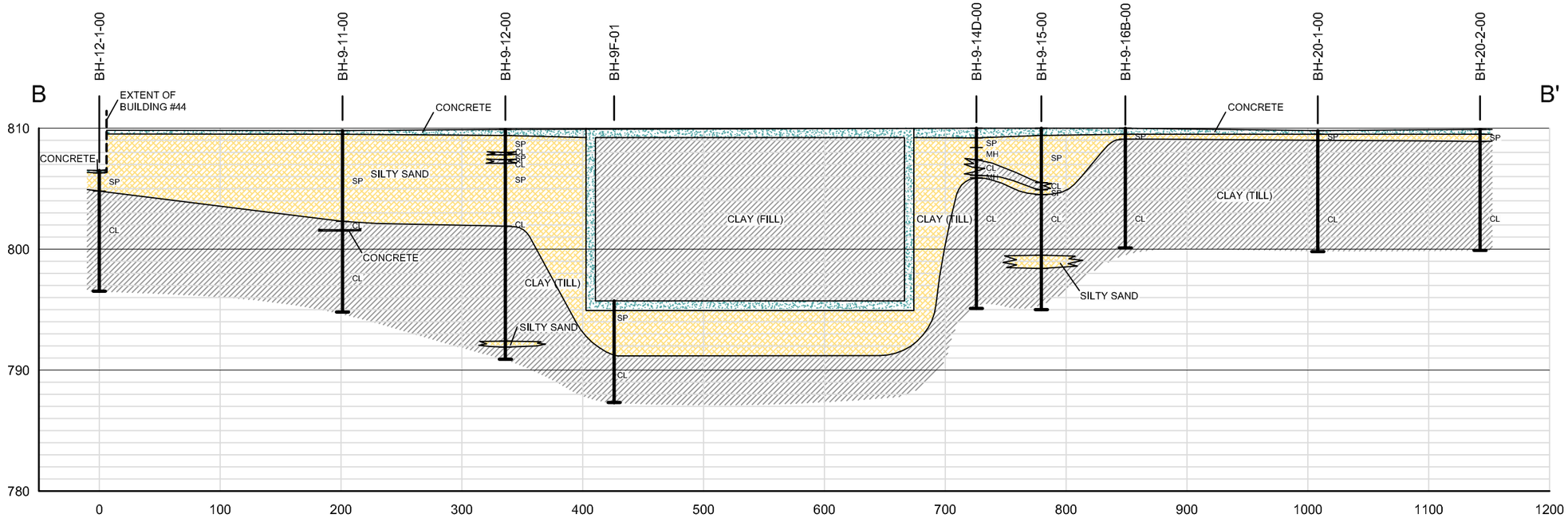


figure 5.8

GEOLOGIC CROSS SECTIONS B-B', B1-B1', AND B2-B2', AND BOREHOLE LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY

Genessee Township, Michigan

12636-40(031)GN-WA001 MAR 19/2010



SCALE: 1:100
1:10

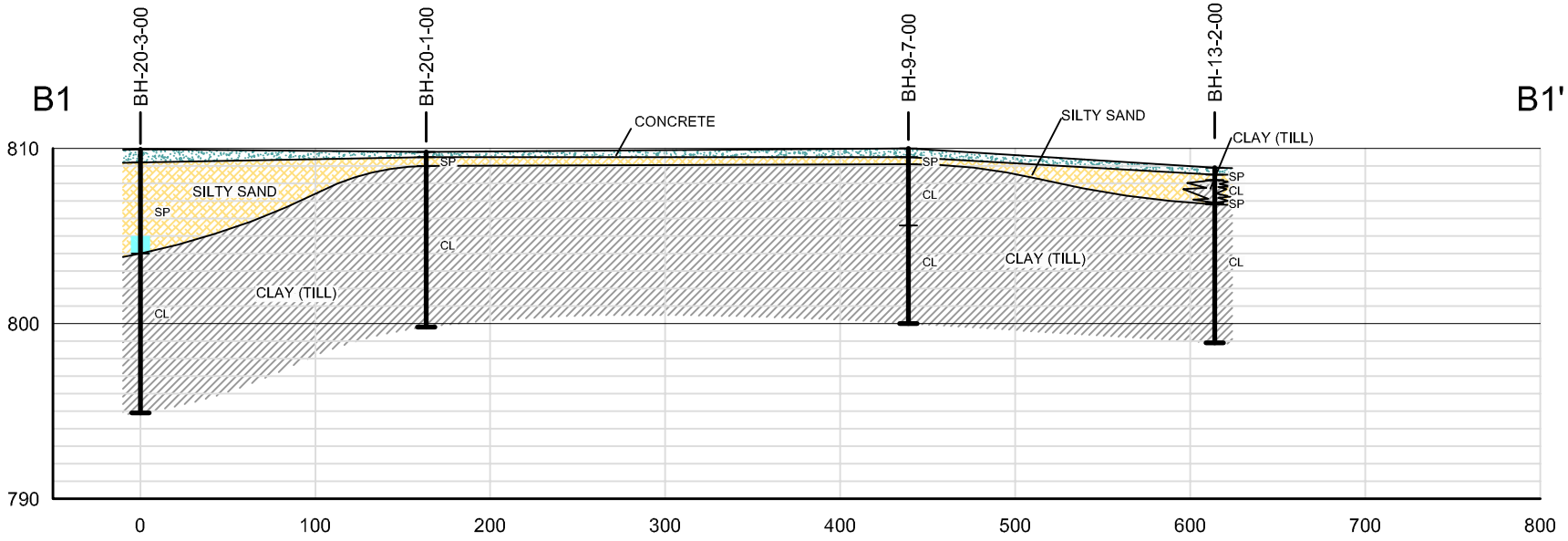
LEGEND
- CONCRETE
- SILTY SAND
- CLAY (TILL)

BH-19-8-00
- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.9

CROSS-SECTION B-B'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010



SCALE: 1:100
1:10

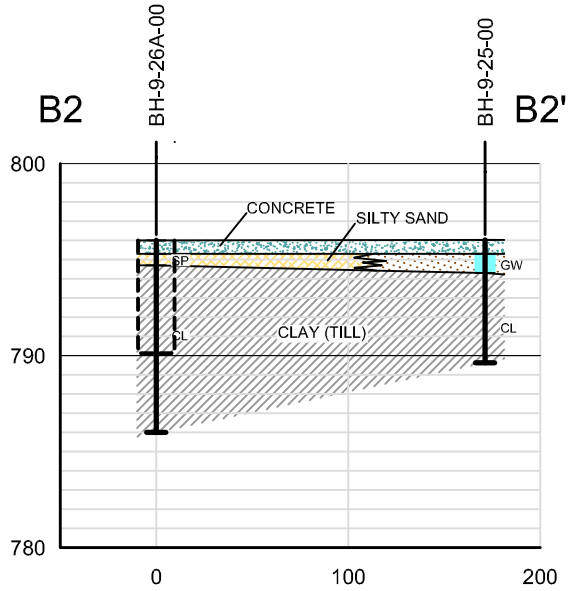
LEGEND
CONCRETE
SILTY SAND
CLAY (TILL)

BH-19-8-00
BOREHOLE LOCATION
SATURATED ZONE
END OF BOREHOLE

figure 5.10

CROSS-SECTION B1-B1'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010



SCALE: 1:100
1:10

LEGEND

- CONCRETE
- SILTY SAND
- CLAY (TILL)
- GRAVEL
- SPOT EXCAVATION

BH-19-8-00

- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.11

CROSS-SECTION B2-B2'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010

N

0 50 100ft

C

BH-11-2-00

BH-11-5-00

AOI #11
FORMER COAL STORAGE AREA

BH-11-5-02
BH-11-1-00
BH-11-6-02
BH-11-3-02
BH-11-1-02
BH-11-4-02
BH-11-2-02
BH-11-7-02
BH-11-8-02

BH-11-3-00

BH-11-4-00

AOI #21
POWERHOUSE
FUEL OIL
STORAGE TANKS

BH-21-1-00
BH-21-2-00

POWER HOUSE
BUILDING #45

BH-14-2-00
BH-14-1-00

AOI #14
FORMER
INCINERATOR

WATER
TANK

BH-17-1-00
BH-17-2A-00
BH-17-2-00

SUBSTATION

AOI #17
SUBSTATION
DRAINAGE SUMP

C'

LEGEND

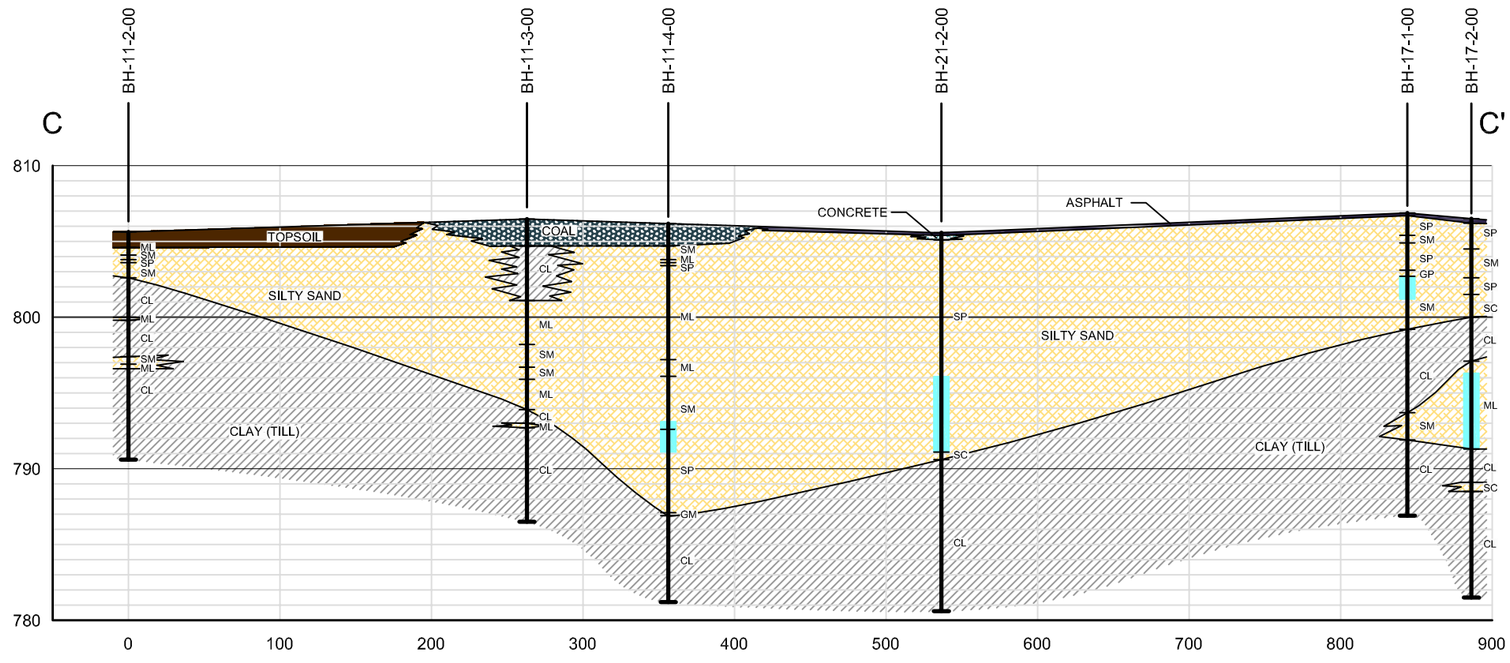
BH-19-5-00 ■ BOREHOLE LOCATION

SPOT EXCAVATION

figure 5.12

GEOLOGIC CROSS SECTION C-C' AND BOREHOLE LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genessee Township, Michigan

12636-40(031)GN-WA001 MAR 16/2010



SCALE: 1:100
1:10

LEGEND

- CONCRETE
- SILTY SAND
- CLAY (TILL)
- TOPSOIL
- COAL
- ASPHALT

BH-19-8-00

- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.13

CROSS-SECTION C-C'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010

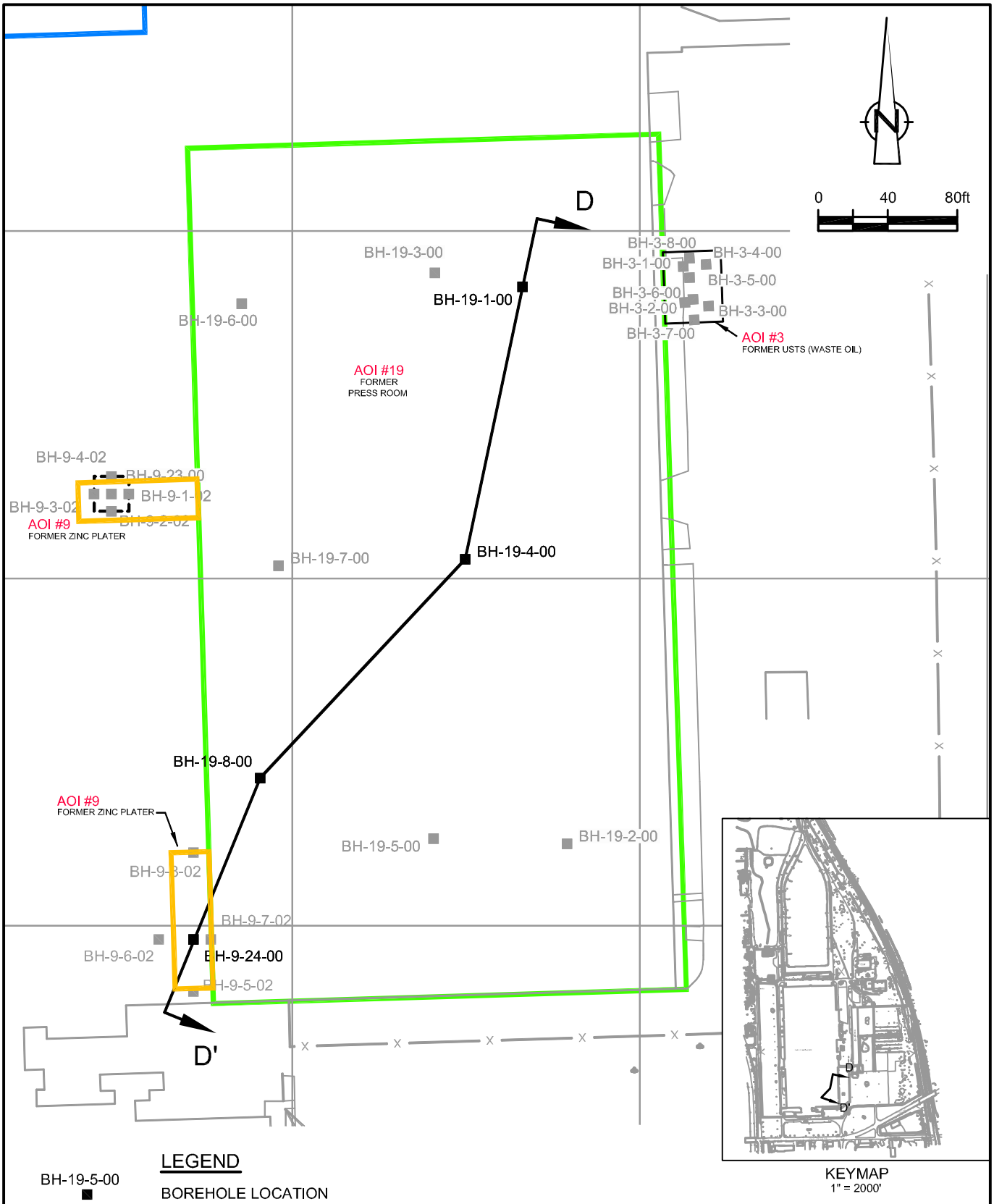
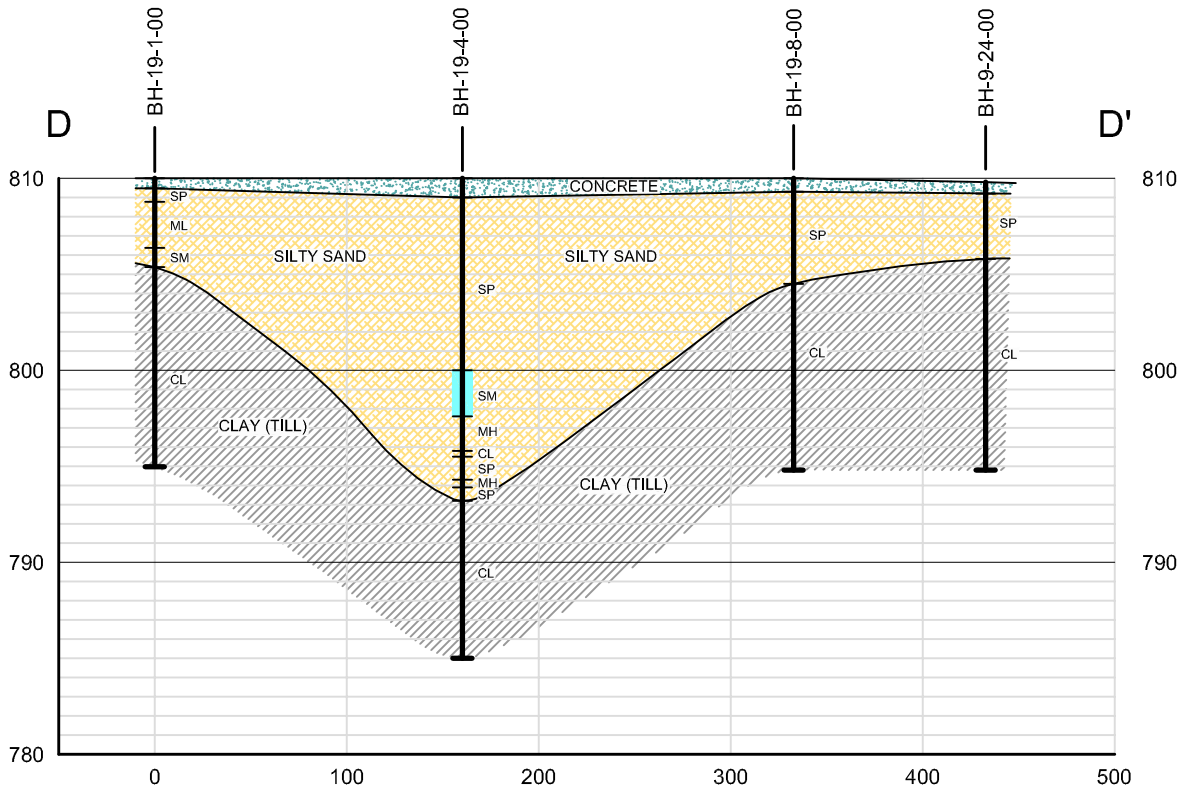


figure 5.14

GEOLOGIC CROSS SECTION D-D' AND BOREHOLE LOCATIONS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA001 MAR 19/2010



SCALE: 1:100
1:10

LEGEND

- CONCRETE
- SILTY SAND
- CLAY (TILL)

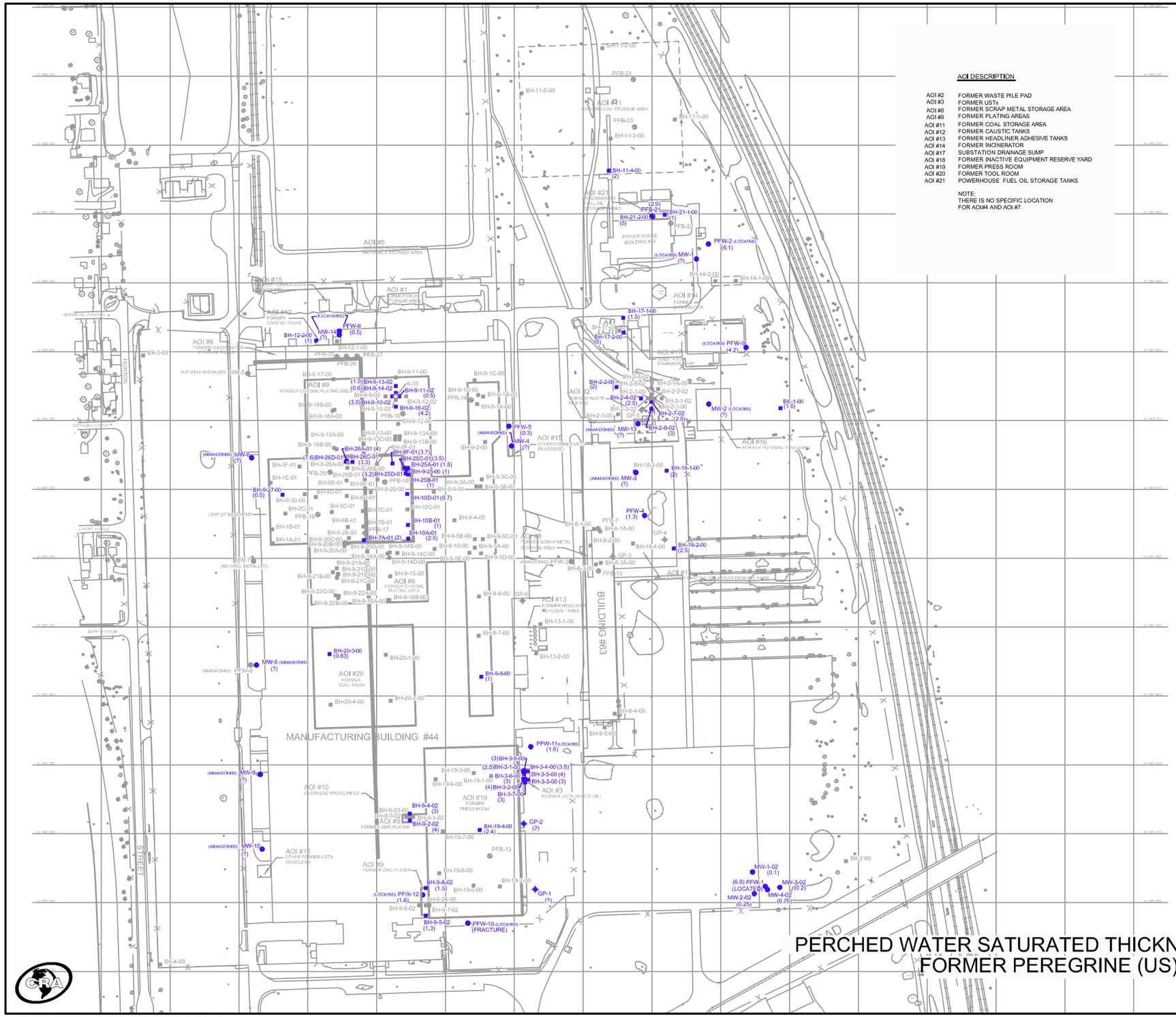
BH-19-8-00

- BOREHOLE LOCATION
- SATURATED ZONE
- END OF BOREHOLE

figure 5.15

CROSS-SECTION D-D'
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA002 MAR 16/2010



AOI DESCRIPTION

AOI #2	FORMER WASTE PILE PAD
AOI #3	FORMER USTs
AOI #8	FORMER SCRAP METAL STORAGE AREA
AOI #9	FORMER PLATING AREAS
AOI #11	FORMER COAL STORAGE AREA
AOI #12	FORMER CAUSTIC TANKS
AOI #13	FORMER HEADLINER ADHESIVE TANKS
AOI #14	FORMER INCINERATOR
AOI #17	SUBSTATION DRAINAGE SUMP
AOI #18	FORMER INACTIVE EQUIPMENT RESERVE YARD
AOI #19	FORMER PRESS ROOM
AOI #20	FORMER TOOL ROOM
AOI #21	POWERHOUSE FUEL OIL STORAGE TANKS

NOTE:
THERE IS NO SPECIFIC LOCATION FOR AOI#4 AND AOI #7.

0 100 300ft

LEGEND

- ASPHALT LINE
- BUILDING
- CURB
- DITCH
- FENCELINE
- GRAVEL LINE
- GUARDRAIL
- RAILROAD
- ROAD
- SIDEWALK
- SHORELINE
- TRAIL
- CATCH BASIN / FIRE HYDRANT
- MANHOLE
- TANK
- VEGETATION
- BH-18-4-00 — BOREHOLE LOCATION
- BK-2-00 — BACKGROUND BOREHOLE LOCATION
- MW-1 — STUDY 2 MONITORING WELL LOCATION AND NUMBER
- PFW-1 — STUDY 4 MONITORING WELL LOCATION AND NUMBER
- PFB-7 — STUDY 4 SOIL BORING LOCATION AND NUMBER
- GR1 — STUDY 1 GEOPROBE LOCATION AND NUMBER
- (1.5) — SATURATED THICKNESS (ft)
- (?) — SATURATED THICKNESS NOT IDENTIFIED ON HISTORICAL LOGS

NOTES:
1) Reference System:
Vertical - NAVD 1988.
Horizontal - NAD 83(1994)
Michigan South zone 2113.

2) Aerial Photo Date: 3/25/00
Date of Mapping: April 2000

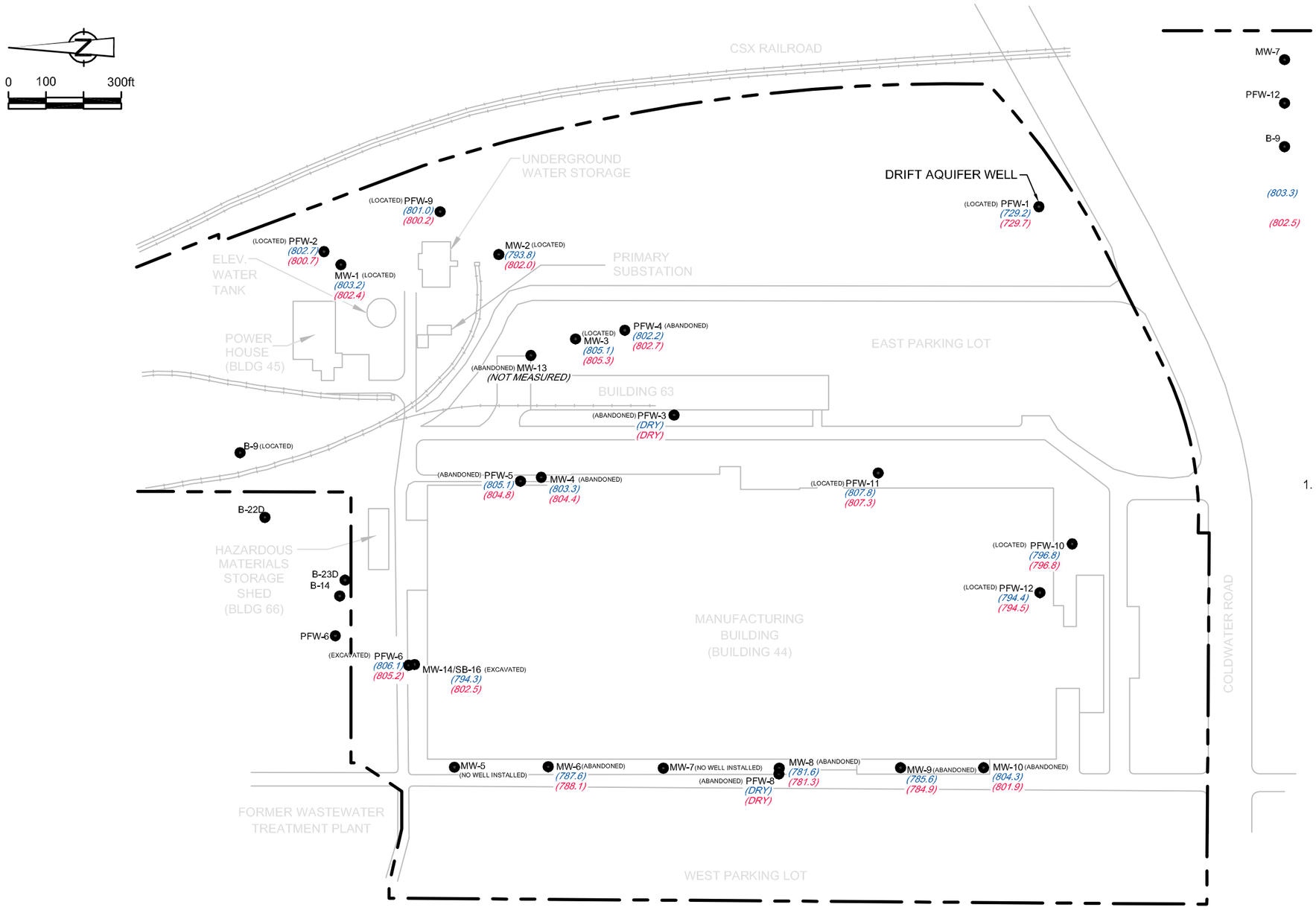
3) Boreholes surveyed, received July 3, 2000.

SOURCE:
NOVA CONSUTANTS, INC. MAY 26, 2000

figure 5.16

PERCHED WATER SATURATED THICKNESS OBSERVED DURING DRILLING
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA003 MAR 16/2010



LEGEND

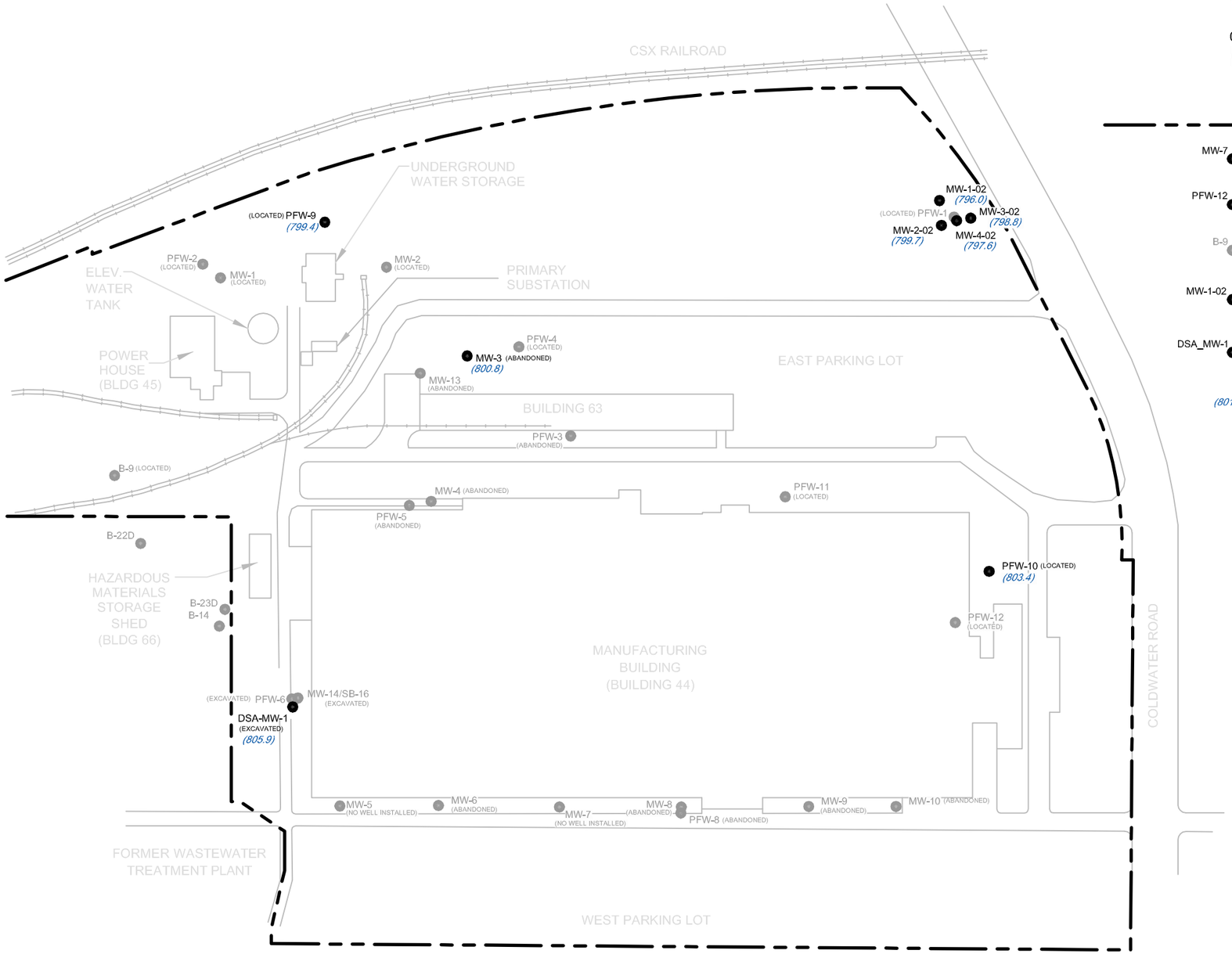
- FACILITY BOUNDARY
- MW-7 — STUDY 2 MONITORING WELL LOCATION AND NUMBER
- PFW-12 — STUDY 4 MONITORING WELL LOCATION AND NUMBER
- B-9 — RCRA UNIT CLOSURE MONITORING WELL LOCATION AND NUMBER
- *(803.3)* — WATER ELEVATION - MARCH 1997
- *(802.5)* — WATER ELEVATION - APRIL 1997

NOTE

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

figure 5.17

PRE-RFI STATIC WATER ELEVATIONS - MARCH/APRIL 1997
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



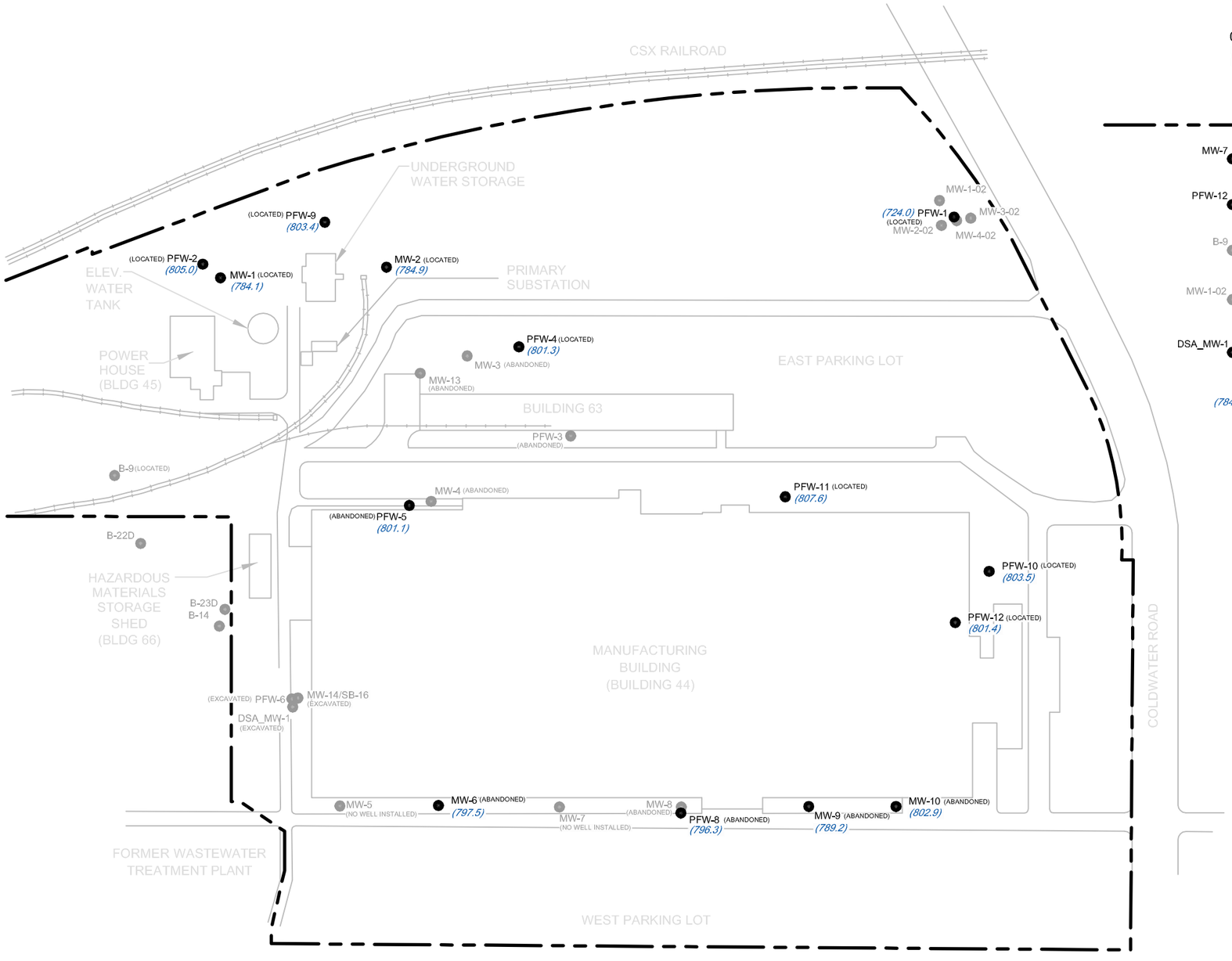
NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
2. LOCATIONS WHERE THE WATER ELEVATIONS WERE NOT MEASURED ARE SHOWN IN GREY.

figure 5.18

STATIC WATER ELEVATIONS - OCTOBER 2002
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA037 AUG 05/2010

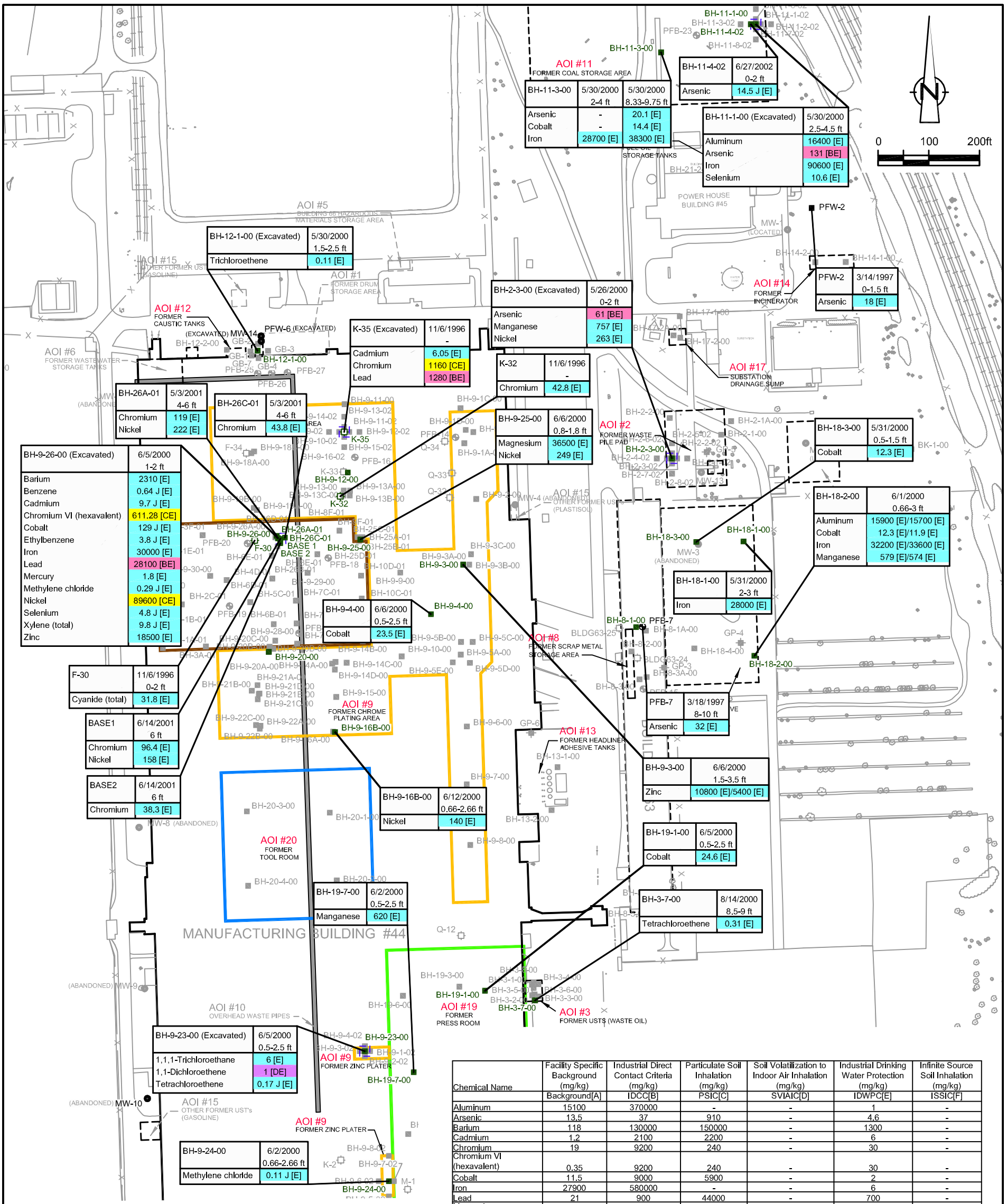


NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.
2. LOCATIONS WHERE THE WATER ELEVATIONS WERE NOT MEASURED ARE SHOWN IN GREY.

figure 5.19

STATIC WATER ELEVATIONS - MARCH / APRIL 2004
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



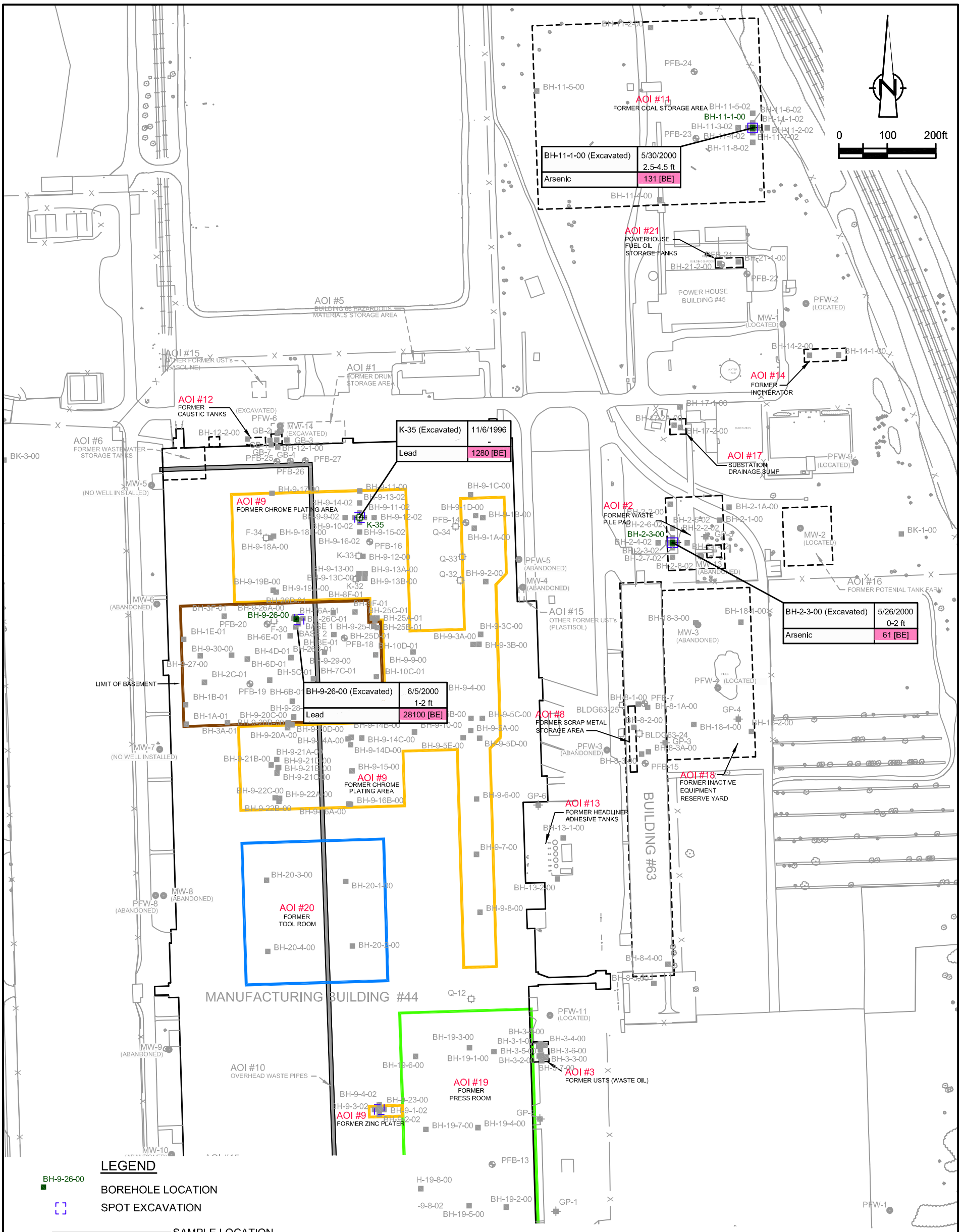
Chemical Name	Facility Specific Background (mg/kg)	Industrial Direct Contact Criteria (mg/kg)	Particulate Soil Inhalation (mg/kg)	Soil Volatilization to Indoor Air Inhalation (mg/kg)	Industrial Drinking Water Protection (mg/kg)	Infinite Source Soil Inhalation (mg/kg)
	Background[A]	IDCC[B]	PSIC[C]	SVIAIC[D]	IDWPC[E]	ISSIC[F]
Aluminum	15100	370000	-	-	1	-
Arsenic	13.5	37	910	-	4.6	-
Barium	118	130000	150000	-	1300	-
Cadmium	1.2	2100	2200	-	6	-
Chromium	19	9200	240	-	30	-
Chromium VI (hexavalent)	0.35	9200	240	-	30	-
Cobalt	11.5	9000	5900	-	2	-
Iron	27900	580000	-	-	6	-
Lead	21	900	44000	-	700	-
Magnesium	35000	1000000	2900000	-	22000	-
Manganese	513	90000	1500	-	1	-
Mercury	0.13	580	8800	89	1.7	62
Nickel	26	150000	16000	-	100	-
Selenium	0.44	9600	59000	-	4	-
Zinc	70	630000	-	-	5000	-
1,1,1-Trichloroethane	-	460	29000000	460	4	4500
1,1-Dichloroethene	-	570	78000	0.33	0.14	3.7
Benzene	-	400	470000	8.4	0.1	45
Ethylbenzene	-	140	13000000	140	1.5	2400
Methylene chloride	-	2300	8300000	240	0.1	700
Tetrachloroethene	-	88	6800000	60	0.1	600
Trichloroethene	-	500	2300000	37	0.1	260
Xylene (total)	-	150	130000000	150	5.6	54000
Cyanide (total)	-	250	250	-	4	-

MDEQ GENERIC INDUSTRIAL CRITERIA USED, DATED JANUARY 2006

figure 5.20

HISTORICAL AND RFI EXCEEDANCES OF GENERIC INDUSTRIAL SOIL CRITERIA FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY

Genesee Township, Michigan



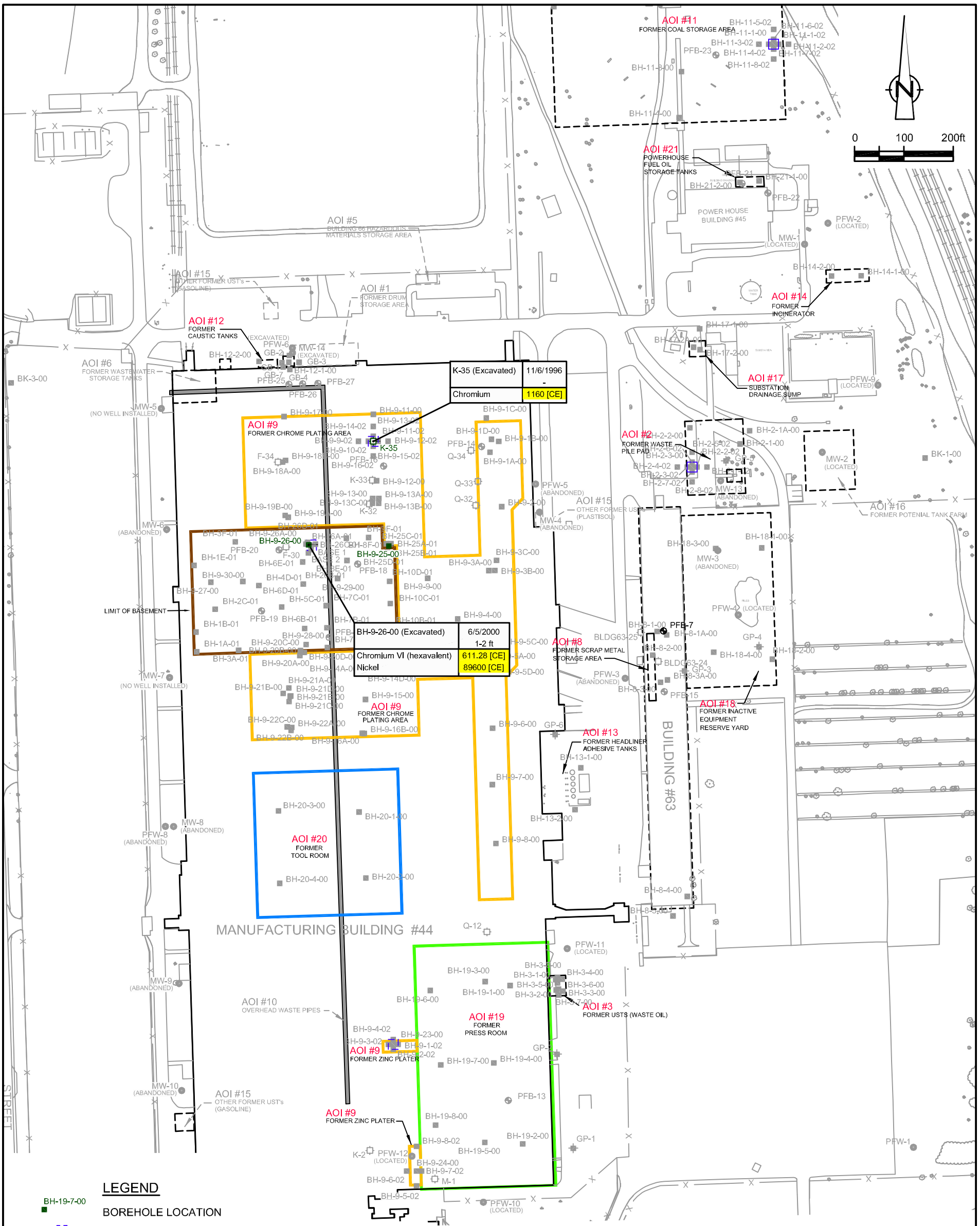
Chemical Name	Facility Specific Background (mg/kg)	Industrial Direct Contact Criteria (mg/kg)
	Background[A]	IDCC[B]
Arsenic	13.5	37
Chromium	19	9200
Lead	21	900

MDEQ GENERIC INDUSTRIAL CRITERIA USED, DATED JANUARY 2006

figure 5.21

EXCEEDANCES OF INDUSTRIAL DIRECT CONTACT CRITERIA, IDCC[B]
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA043 AUG 05/2010

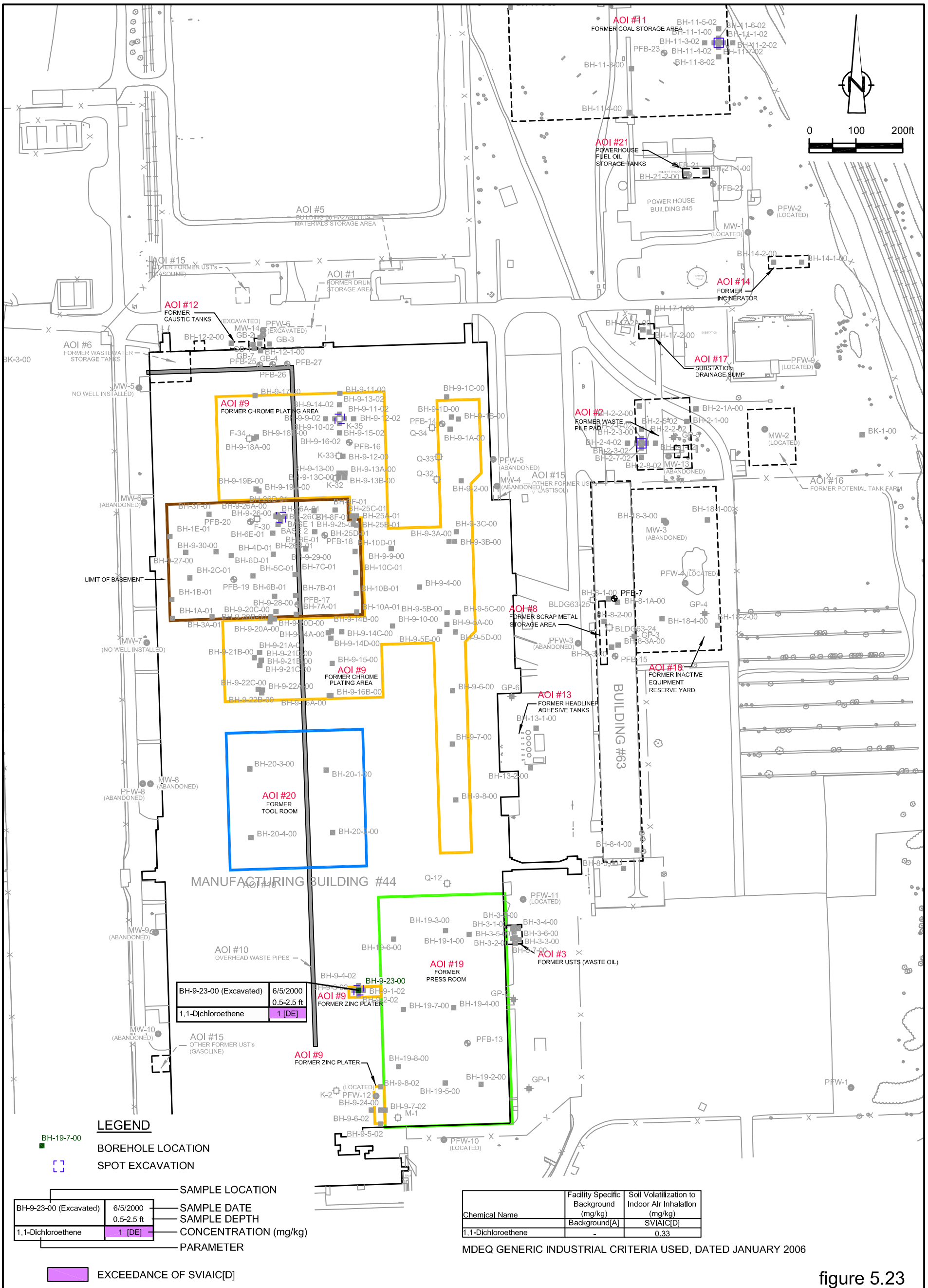


Chemical Name	Facility Specific Background (mg/kg)	Particulate Soil Inhalation (mg/kg)
	Background[A]	PSIC[C]
Chromium	19	240
Chromium VI (hexavalent)	0.35	240
Nickel	26	16000

MDEQ GENERIC INDUSTRIAL CRITERIA USED, DATED JANUARY 2006

figure 5.22

EXCEEDANCES OF PARTICULATE SOIL INHALATION CRITERIA, PSIC[C]
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan



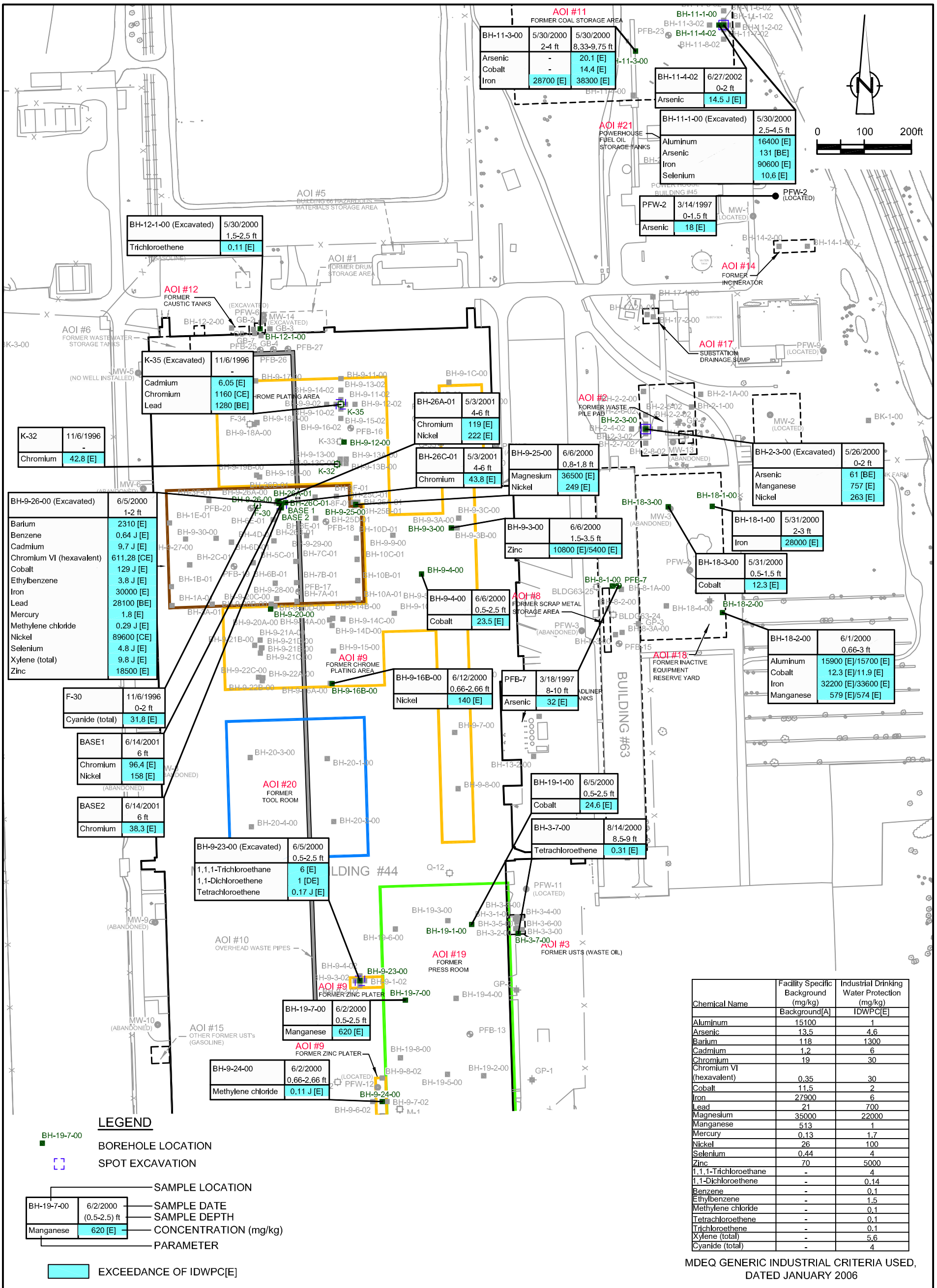
Chemical Name	Facility Specific Background (mg/kg)	Soil Volatilization to Indoor Air Inhalation (mg/kg)
	Background[A]	SVIAIC[D]
1,1-Dichloroethene	-	0.33

MDEQ GENERIC INDUSTRIAL CRITERIA USED, DATED JANUARY 2006

figure 5.23

EXCEEDANCES OF SOIL VOLATILIZATION TO INDOOR AIR INHALATION CRITERIA, SVIAIC[D]
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA045 AUG 05/2010



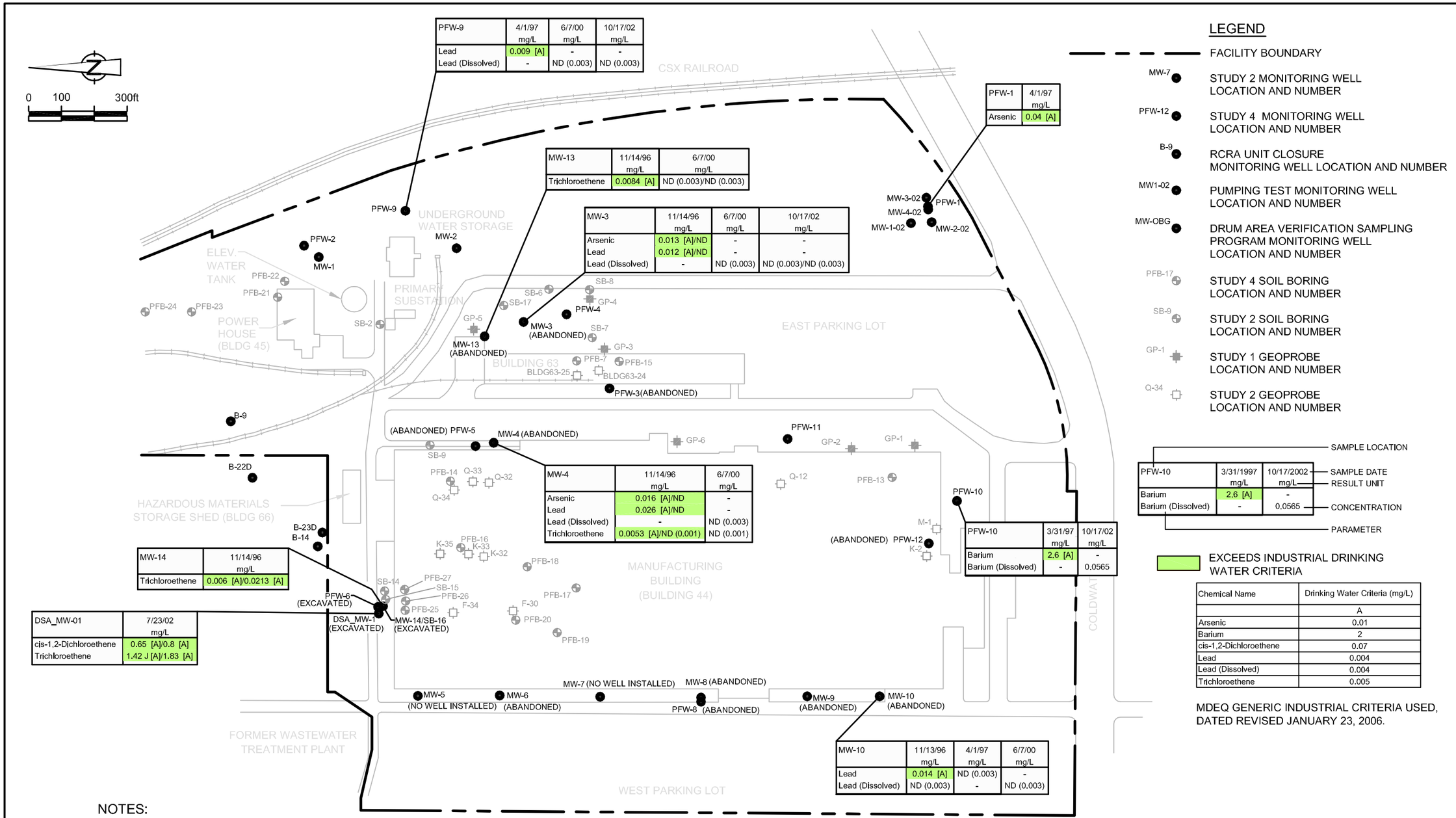
Chemical Name	Facility Specific Background (mg/kg)	Industrial Drinking Water Protection (mg/kg)
	Background[A]	IDWPC[E]
Aluminum	15100	1
Arsenic	13.5	4.6
Barium	118	1300
Cadmium	1.2	6
Chromium	19	30
Chromium VI (hexavalent)	0.35	30
Cobalt	11.5	2
Iron	27900	6
Lead	21	700
Magnesium	35000	22000
Manganese	513	1
Mercury	0.13	1.7
Nickel	26	100
Selenium	0.44	4
Zinc	70	5000
1,1,1-Trichloroethane	-	4
1,1-Dichloroethene	-	0.14
Benzene	-	0.1
Ethylbenzene	-	1.5
Methylene chloride	-	0.1
Tetrachloroethene	-	0.1
Trichloroethene	-	0.1
Xylene (total)	-	5.6
Cyanide (total)	-	4

MDEQ GENERIC INDUSTRIAL CRITERIA USED, DATED JANUARY 2006

figure 5.24

EXCEEDANCES OF INDUSTRIAL DRINKING WATER PROTECTION CRITERIA, IDWPC[E]
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY

Genesee Township, Michigan



NOTES:

1. INFORMATION SHOWN ON THIS FIGURE TAKEN FROM STUDY 4, (JULY,1997 REPORT)
2. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE.

figure 5.25

EXCEEDANCES OF GENERIC INDUSTRIAL DRINKING WATER CRITERIA
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

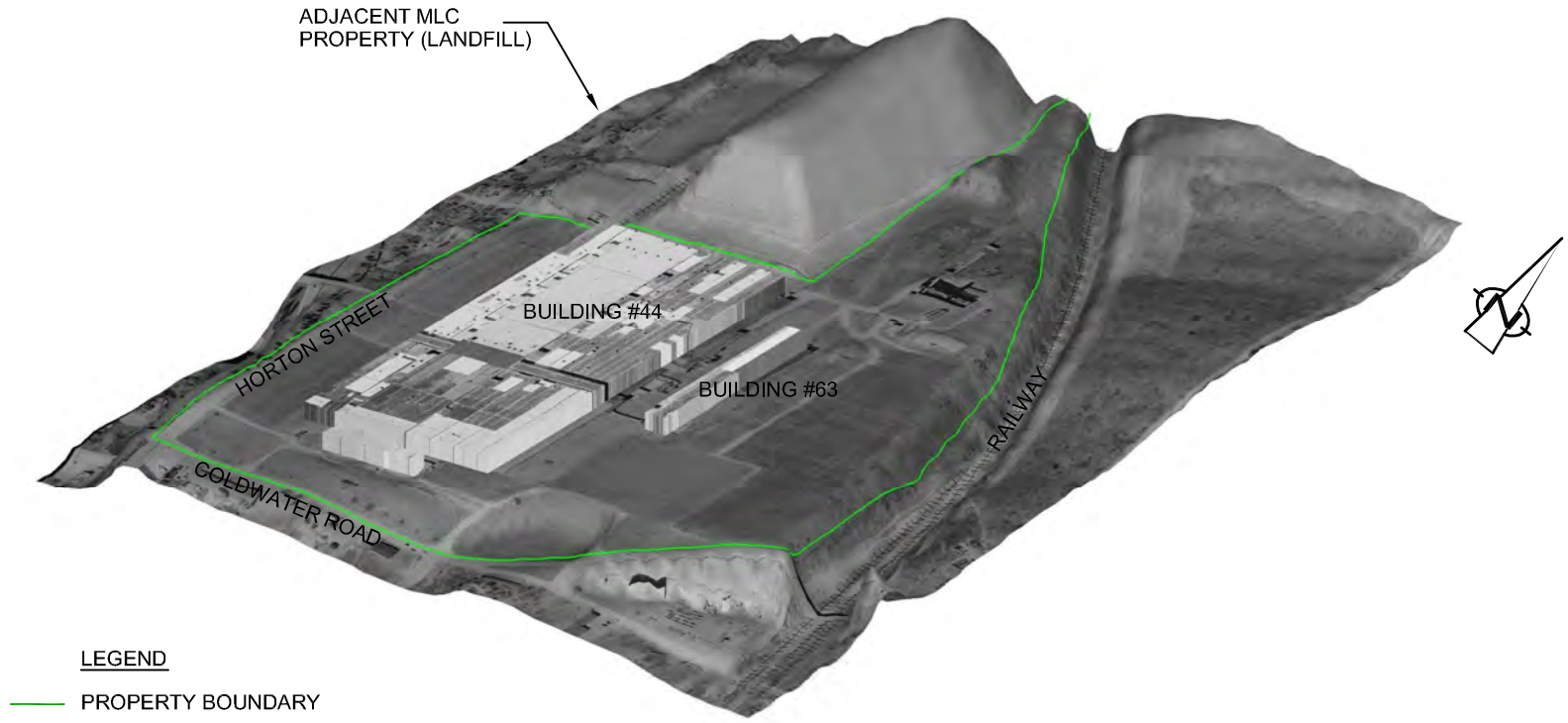


figure 6.1

THREE-DIMENSIONAL AERIAL PHOTOGRAPH OF FACILITY (MARCH 25, 2000)
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA032 AUG 05/2010

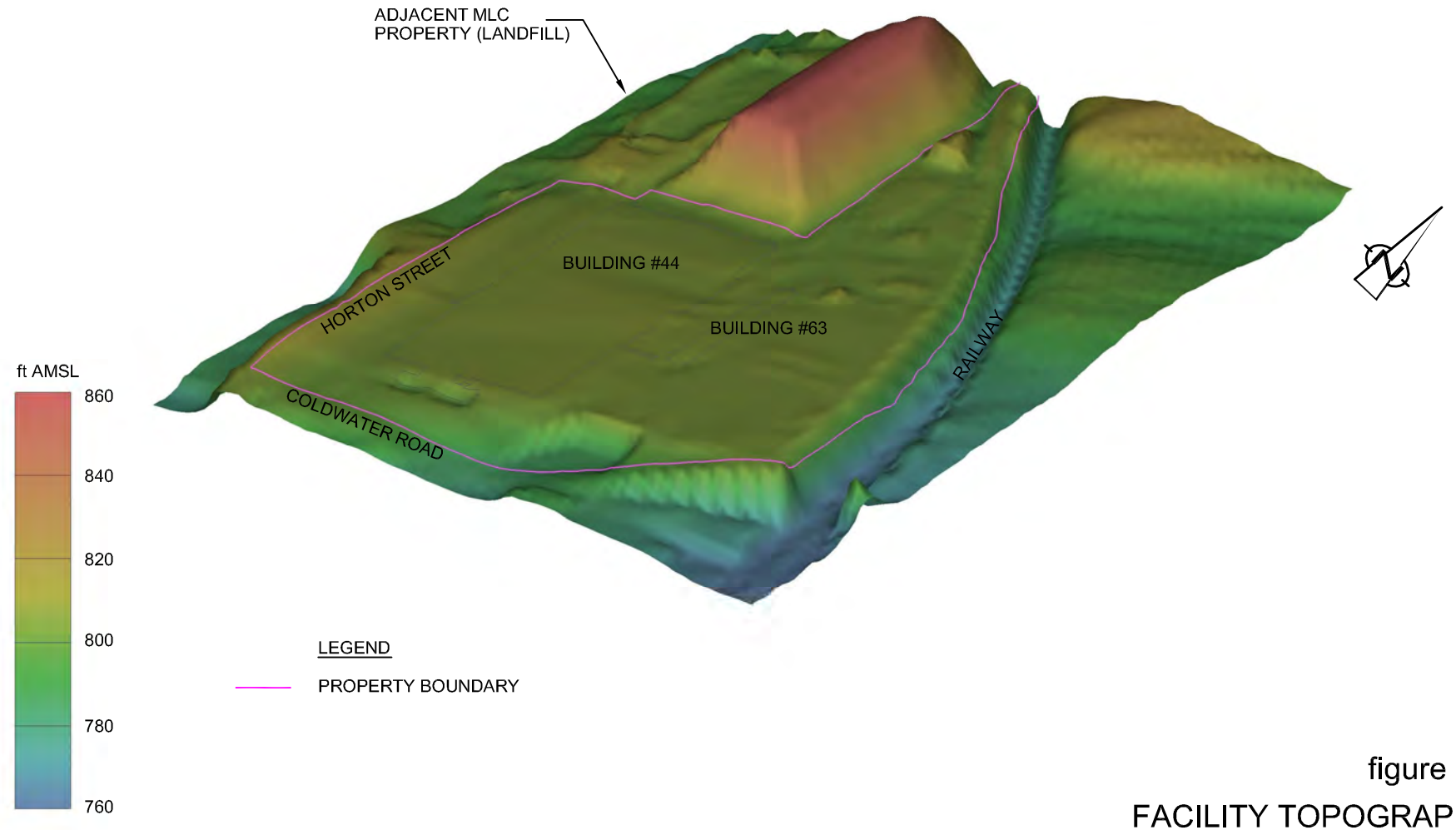
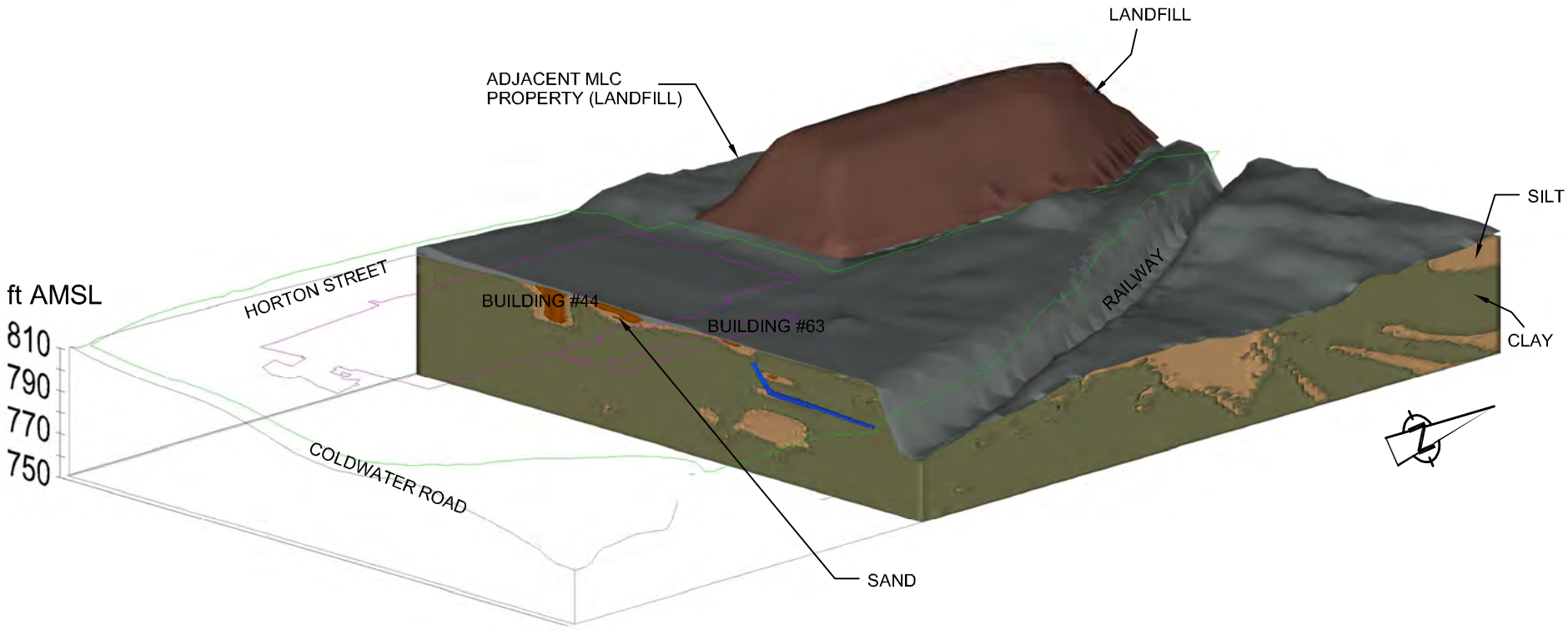


figure 6.2

FACILITY TOPOGRAPHY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA033 AUG 05/2010



LEGEND

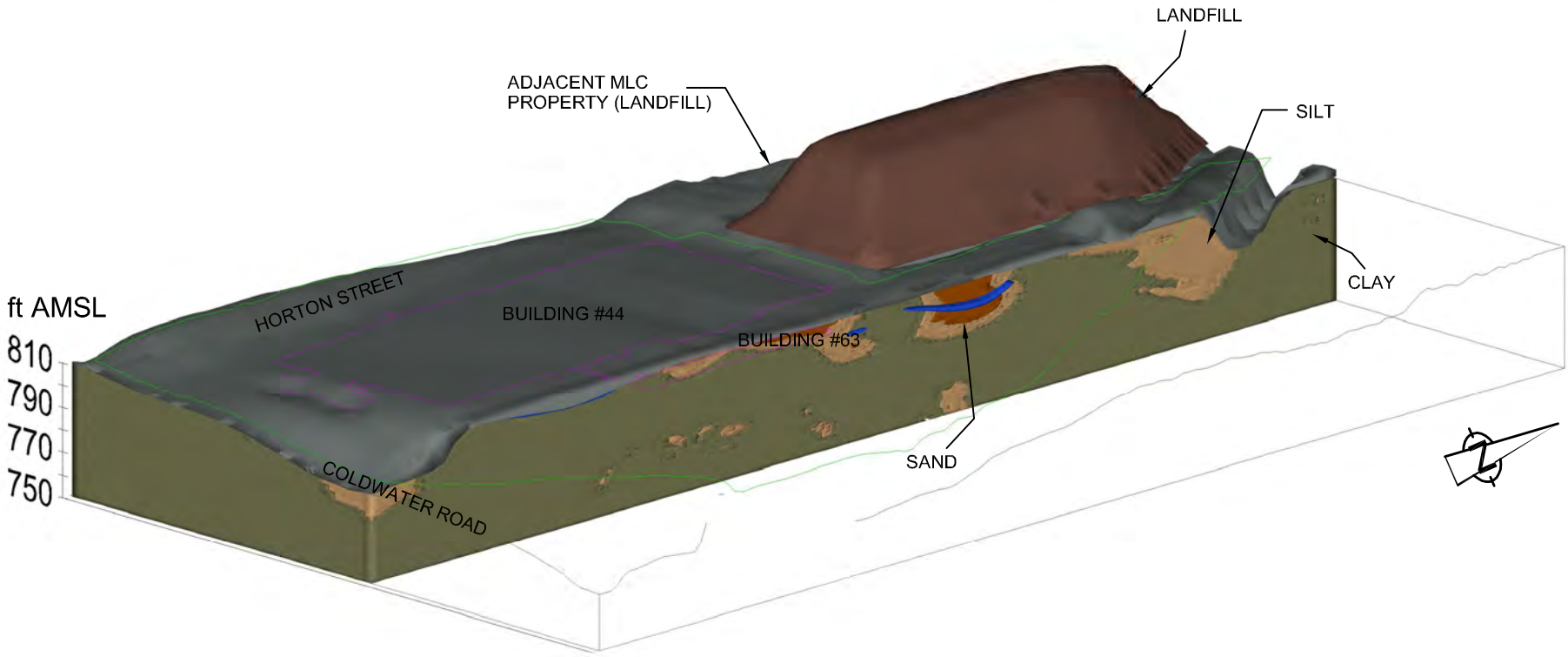
PROPERTY BOUNDARY

PERCHED GROUNDWATER TABLE

figure 6.3

WEST TO EAST GEOLOGIC PROFILE
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA035 AUG 05/2010



LEGEND

PROPERTY BOUNDARY

PERCHED GROUNDWATER TABLE

figure 6.4

NORTH TO SOUTH GEOLOGIC PROFILE
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

12636-40(031)GN-WA036 AUG 05/2010

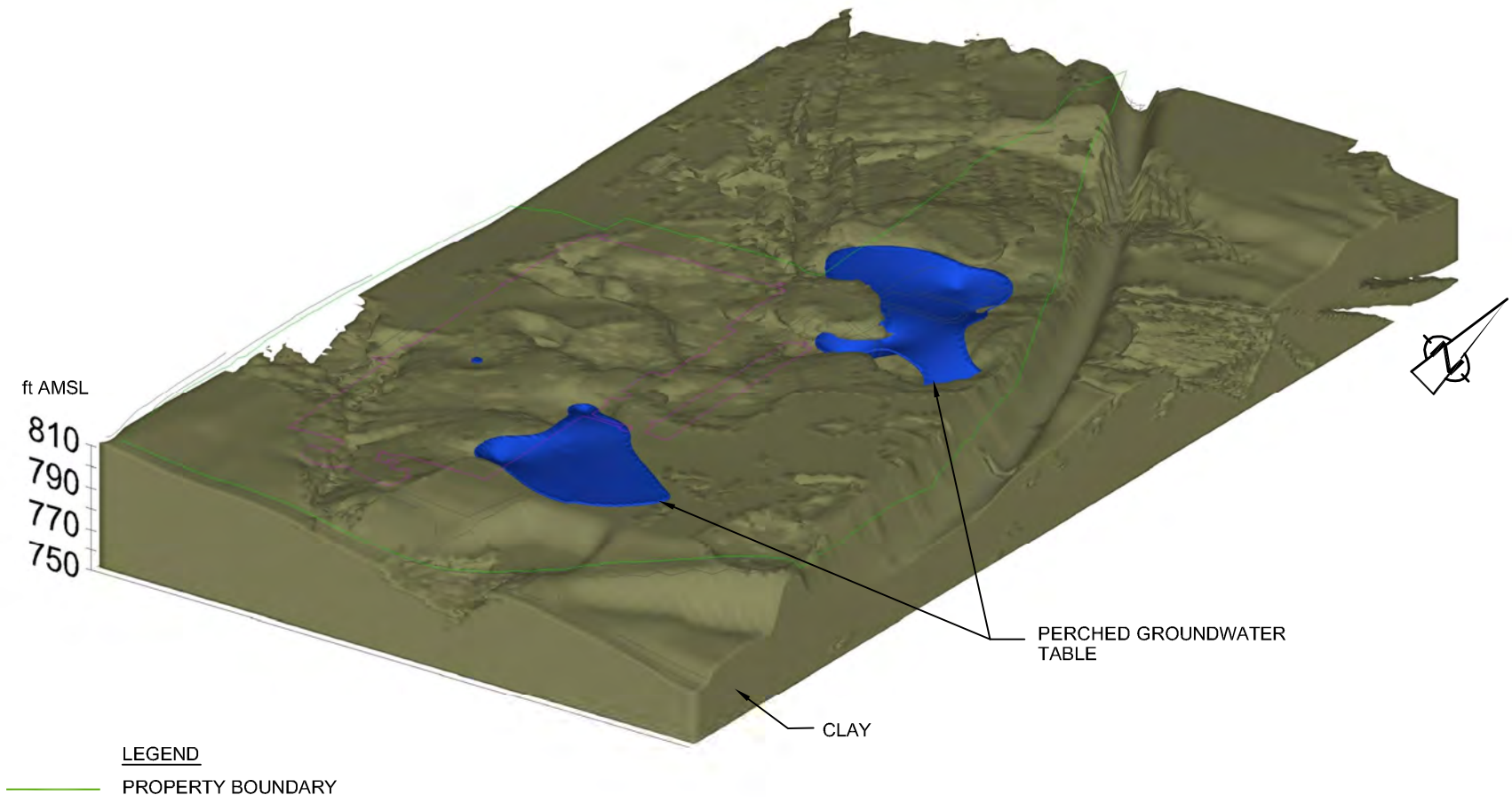


figure 6.5

PERCHED WATER TABLE
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
Genesee Township, Michigan

TABLE 4.1

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

AOI Number	*AOI Description*	*Sample Matrix*	*Laboratory Parameters*	*Investigative Samples*	*Field QC Samples Duplicate or Rinsate*		*Total*	*Lab QC Samples MS/MSD*
AOI 2	Former Waste Pile Pad	Soil	TCL VOC, TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	3	1	1	5	0
			Arsenic	4	1	0	5	1
		Groundwater	TCL VOC	1	1	0	2	0
AOI 3	Former USTs (Waste Oil)	Soil	Selected VOC, Selected Metals, and TCL PCB	8	1	0	9	0
AOI 7	Former Scrap Metal Management System	Groundwater	Barium	1	0	0	1	0
AOI 8	Former Scrap Metal Storage Area	Soil	TCL VOC, TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	5	1	1	7	0
			TCL VOC, TAL Inorganics & Hexavalent Chromium	1	0	0	1	1
AOI 9	Former Plating Areas	Soil	TCL VOC, TAL Inorganics & Hexavalent Chromium	34	7	6	47	12
			Modified Appendix IX	2	0	1	3	2
			TCL VOC & TAL Inorganics	7	1	0	8	0
			Lead	4	1	0	5	0
			Hexavalent Chromium	4	1	0	5	1
			Total & Hexavalent Chromium	1	0	0	1	0
			1,1-Dichloroethene	4	1	0	5	0

TABLE 4.1

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

AOI Number	*AOI Description*	*Sample Matrix*	*Laboratory Parameters*	*Investigative Samples*	*Field QC Samples Duplicate or Rinsate*		*Total*	*Lab QC Samples MS/MSD*
AOI 11	Former Coal Storage Area	Soil	TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	6	1	1	8	2
			Arsenic	4	1	0	5	1
AOI 12	Former Caustic Tanks	Soil	TCL VOC, TAL PCB, TCL SVOC & Hexavalent Chromium	2	1	0	3	0
AOI 13	Former Headliner Adhesive Tanks	Soil	TCL VOC, TCL SVOC, TCL PCB	2	0	1	3	0
AOI 14	Former Incinerator	Soil	TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	2	0	1	3	2
AOI 17	Substation Drainage Sump	Soil	TCL SVOC & TCL PCB	4	0	1	5	0
AOI 18	Former Inactive Equipment Reserve Yard (IERY)	Soil	TCL VOC, TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	6	1	1	8	1
		Groundwater	Lead	2	1	0	3	0

TABLE 4.1

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

AOI Number	*AOI Description*	*Sample Matrix*	*Laboratory Parameters*	*Investigative Samples*	*Field QC Samples Duplicate or Rinsate*		*Total*	*Lab QC Samples MS/MSD*
AOI 19	Former Press Yard	Soil	TCL VOC, TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	9	1	1	11	1
			Modified Appendix IX	1	0	0	1	0
AOI 20	Former Tool Room	Soil	TCL VOC, TCL SVOC, TCL PCB, TAL Inorganics & Hexavalent Chromium	4	0	1	5	0
			Modified Appendix IX	1	0	0	1	0
AOI 21	Power Fuel Oil Storage Tanks	Soil	TCL VOC, TCL SVOC, TAL Inorganics & Hexavalent Chromium	3	0	0	3	0
--	Background	Soil	TAL Inorganics & Hexavalent Chromium	8	0	0	8	1

Notes:

* - Selected parameters include: BTEX; Trimethylbenzene Isomers (TMB); 1,2-Dibromethane; 1,2-Dichloroethane; Cadmium; Chromium; Lead; Volatile Halocarbons; and PCBs which are specified in a letter written to Cheryl Hiatt on August 11, 2000 entitled, "Re: Former Waste Oil UST Area Supplemental Soil Investigation Work Plan (Work Plan), Former Peregrine (US) Inc., Coldwater Road Facility, Genesee Township, Michigan."

AOI - Area of Interest
PCB - Polychlorinated Biphenyls
SVOC - Semi-volatile Organic Compounds
TAL - Target Analyte List
TCL - Target Compound List
VOC - Volatile Organic Compound

TABLE 4.2

RFI SOIL SAMPLE KEY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID	*Parent Sample ID*	*Data Validation Memo*	*Location*	*AOI*	*Sample Interval*	*QA/QC*
S-12636-020501-DRD-001		12636Memo-136D	BH-6E-01	9	0 to 2 ft bgs	MS/MSD
S-12636-022103-DD-001		12636Memo-156D	K-35	9	0.5 to 2.5 ft bgs	MS/MSD
S-12636-030501-DRD-007		12636Memo-135D	BH-26B-01	9	0 to 1 ft bgs	MS/MSD
S-12636-030501-DRD-008		12636Memo-135D	BH-26C-01	9	4 to 6 ft bgs	
S-12636-030501-DRD-009		12636Memo-135D	BH-26A-01	9	4 to 6 ft bgs	
S-12636-030501-DRD-010		12636Memo-135D	BH-26D-01	9	0 to 2 ft bgs	
S-12636-030501-DRD-011	S-030501-DRD-010	12636Memo-135D	BH-26D-01	9	0 to 2 ft bgs	MS/MSD, Duplicate
S-12636-052400-DRD-003		12636Memo-96D	BK-1-00	Background	3 ft bgs	
S-12636-052400-DRD-004		12636Memo-96D	BK-1-00	Background	7 ft bgs	
S-12636-052400-KMV-001	S--052400-KMV-001	12636Memo-96D	BK-2-00	Background	4 ft bgs	MS/MSD
S-12636-052400-KMV-002		12636Memo-96D	BK-2-00	Background	10 ft bgs	
S-12636-052500-DRD-005		12636Memo-96D	BK-3-00	Background	5 ft bgs	
S-12636-052500-DRD-006		12636Memo-96D	BK-3-00	Background	11 ft bgs	
S-12636-052500-DRD-007		12636Memo-96D	BK-4-00	Background	5 ft bgs	
S-12636-052500-DRD-008		12636Memo-96D	BK-4-00	Background	10 ft bgs	
S-12636-052600-DRD-009		12636Memo-96D	BH-2-2-00	2	0 to 2 ft bgs	
S-12636-052600-DRD-010		12636Memo-96D	BH-2-3-00	2	0 to 2 ft bgs	
S-12636-052600-DRD-011		12636Memo-96D	BH-2-1-00	2	0 to 2 ft bgs	
S-12636-052600-DRD-012	S--052600-DRD-011	12636Memo-96D	BH-2-1-00	2	0 to 2 ft bgs	Duplicate
S-12636-053000-DRD-013		12636Memo-96D	BH-11-1-00	11	2.5 to 4.5 ft bgs	
S-12636-053000-DRD-014		12636Memo-96D	BH-11-2-00	11	1 to 3 ft bgs	MS/MSD
S-12636-053000-DRD-015		12636Memo-96D	BH-11-3-00	11	2 to 4 ft bgs	
S-12636-053000-DRD-016	S--053000-DRD-015	12636Memo-96D	BH-11-3-00	11	2 to 4 ft bgs	Duplicate
S-12636-053000-DRD-017		12636Memo-96D	BH-11-3-00	11	8.33 to 9.75 ft bgs	
S-12636-053000-DRD-018		12636Memo-96D	BH-11-4-00	11	1.5 to 2.5 ft bgs	MS/MSD
S-12636-053000-DRD-020		12636Memo-96D	BH-11-5-00	11	1 to 3 ft bgs	
S-12636-053000-DRD-021		12636Memo-96D	BH-13-1-00	13	0 to 2 ft bgs	
S-12636-053000-DRD-022		12636Memo-96D	BH-13-2-00	13	0.42 to 2.42 ft bgs	
S-12636-053000-DRD-023		12636Memo-96D	BH-12-2-00	12	0.5 to 2.5 ft bgs	
S-12636-053000-DRD-024	S--053000-DRD-023	12636Memo-96D	BH-12-2-00	12	0.5 to 2.5 ft bgs	Duplicate
S-12636-053000-DRD-025		12636Memo-96D	BH-12-1-00	12	1.5 to 2.5 ft bgs	
S-12636-053100-DRD-026		12636Memo-96D	BH-14-2-00	14	0.5 to 2.5 ft bgs	
S-12636-053100-DRD-026		12636Memo-96D	BH-14-2-00	14	0.5 to 2.5 ft bgs	MS/MSD
S-12636-053100-DRD-027		12636Memo-96D	BH-14-1-00	14	0.5 to 2.5 ft bgs	
S-12636-053100-DRD-028	S--053100-DRD-027	12636Memo-96D	BH-14-1-00	14	0.5 to 2.5 ft bgs	MS/MSD, Duplicate
S-12636-053100-DRD-029		12636Memo-96D	BH-17-1-00	17	2 to 3 ft bgs	
S-12636-053100-DRD-030		12636Memo-96D	BH-17-1-00	17	8 to 9 ft bgs	
S-12636-053100-DRD-031		12636Memo-96D	BH-17-2A-00	17	1 to 3 ft bgs	
S-12636-053100-DRD-032		12636Memo-96D	BH-21-1-00	21	0 to 2 ft bgs	
S-12636-053100-DRD-033		12636Memo-96D	BH-21-1-00	21	18 to 19 ft bgs	
S-12636-053100-DRD-034		12636Memo-96D	BH-21-2-00	21	0.58 to 3 ft bgs	
S-12636-053100-DRD-035		12636Memo-96D	BH-17-2-00	17	0.5 to 2.5 ft bgs	
S-12636-053100-DRD-036		12636Memo-96D	BH-18-3-00	18	0.5 to 1.5 ft bgs	
S-12636-053100-DRD-037		12636Memo-96D	BH-18-1-00	18	2 to 3 ft bgs	
S-12636-060100-DRD-038		12636Memo-96D	BH-18-4-00	18	0.5 to 3 ft bgs	MS/MSD
S-12636-060100-DRD-039		12636Memo-96D	BH-18-4-00	18	5 to 6 ft bgs	
S-12636-060100-DRD-040		12636Memo-96D	BH-18-2-00	18	0.66 to 3 ft bgs	
S-12636-060100-DRD-041	S--060100-DRD-040	12636Memo-96D	BH-18-2-00	18	0.66 to 3 ft bgs	Duplicate
S-12636-060100-DRD-042		12636Memo-96D	BH-18-2-00	18	20 to 21 ft bgs	
S-12636-060100-DRD-043		12636Memo-96D	BH-20-4-00	20	0.66 to 3 ft bgs	
S-12636-060100-DRD-044		12636Memo-96D	BH-20-3-00	20	0.66 to 3 ft bgs	
S-12636-060100-DRD-045		12636Memo-96D	BH-20-1-00	20	0.33 to 2.33 ft bgs	
S-12636-060100-DRD-046		12636Memo-96D	BH-20-2-00	20	0.42 to 3 ft bgs	
S-12636-060100-DRD-047		12636Memo-96D	BH-20-2-00	20	7 to 8 ft bgs	
S-12636-060200-DRD-048		12636Memo-96D	BH-8-5-00	8	0 to 2 ft bgs	
S-12636-060200-DRD-049		12636Memo-96D	BH-8-1A-00	8	0.66 to 2.66 ft bgs	
S-12636-060200-DRD-050		12636Memo-96D	BH-8-1A-00	8	5 to 7 ft bgs	
S-12636-060200-DRD-051		12636Memo-96D	BH-8-3A-00	8	0.66 to 2.66 ft bgs	
S-12636-060200-DRD-052		12636Memo-96D	BH-9-24-00	9	0.66 to 2.66 ft bgs	MS/MSD
S-12636-060200-DRD-053		12636Memo-96D	BH-19-8-00	19	0.58 to 3 ft bgs	
S-12636-060200-DRD-054		12636Memo-96D	BH-19-5-00	19	0.58 to 3 ft bgs	
S-12636-060200-DRD-055		12636Memo-96D	BH-19-2-00	19	0.5 to 2.5 ft bgs	
S-12636-060200-DRD-056		12636Memo-96D	BH-19-7-00	19	0.5 to 2.5 ft bgs	MS/MSD
S-12636-060500-DRD-057		12636Memo-96D	BH-19-4-00	19	1 to 3 ft bgs	
S-12636-060500-DRD-058		12636Memo-96D	BH-19-4-00	19	9 to 10 ft bgs	
S-12636-060500-DRD-059		12636Memo-96D	BH-19-1-00	19	0.5 to 2.5 ft bgs	

TABLE 4.2

RFI SOIL SAMPLE KEY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID	*Parent Sample ID*	*Data Validation Memo*	*Location*	*AOI*	*Sample Interval*	*QA/QC*
S-12636-060500-DRD-060	S--060500-DRD-059	12636Memo-96D	BH-19-1-00	19	0.5 to 2.5 ft bgs	Duplicate
S-12636-060500-DRD-061		12636Memo-96D	BH-19-3-00	19	0.42 to 2.42 ft bgs	
S-12636-060500-DRD-062		12636Memo-96D	BH-19-6-00	19	0.42 to 2.42 ft bgs	
S-12636-060500-DRD-063		12636Memo-96D	BH-19-6-00	19	5.5 to 6.5 ft bgs	
S-12636-060500-DRD-064		12636Memo-96D	BH-9-23-00	9	0.5 to 2.5 ft bgs	
S-12636-060500-DRD-065		12636Memo-96D	BH-9-8-00	9	4 to 6 ft bgs	MS/MSD
S-12636-060500-DRD-066		12636Memo-96D	BH-9-7-00	9	0.5 to 2.5 ft bgs	
S-12636-060500-DRD-067	S--060500-DRD-066	12636Memo-96D	BH-9-7-00	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-060500-DRD-068		12636Memo-96D	BH-9-6-00	9	0.33 to 2.33 ft bgs	
S-12636-060500-DRD-069		12636Memo-96D	BH-8-2-00	8	0.42 to 2.42 ft bgs	
S-12636-060500-DRD-070	S--060500-DRD-069	12636Memo-96D	BH-8-2-00	8	0.42 to 2.42 ft bgs	Duplicate
S-12636-060500-DRD-071		12636Memo-96D	BH-9-10-00	9	0.5 to 2.5 ft bgs	
S-12636-060500-KMV-101		12636Memo-96D	BH-9-26-00	9	1 to 2 ft bgs	MS/MSD
S-12636-060500-KMV-102		12636Memo-96D	BH-9-26A-00	9	1 to 2 ft bgs	MS/MSD
S-12636-060500-KMV-103		12636Memo-96D	BH-9-29-00	9	1 to 2 ft bgs	
S-12636-060500-KMV-104		12636Memo-96D	BH-9-29-00	9	10 ft bgs	MS/MSD
S-12636-060500-KMV-105		12636Memo-96D	BH-9-28-00	9	1.5 to 2 ft bgs	
S-12636-060500-KMV-106		12636Memo-96D	BH-9-30-00	9	1 to 2 ft bgs	
S-12636-060500-KMV-107		12636Memo-96D	BH-9-27-00	9	1 to 2 ft bgs	
S-12636-060600-DRD-072		12636Memo-96D	BH-9-4-00	9	0.5 to 2.5 ft bgs	
S-12636-060600-DRD-073	S--060600-DRD-072	12636Memo-96D	BH-9-4-00	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-060600-DRD-074		12636Memo-96D	BH-9-9-00	9	0.5 to 2.5 ft bgs	
S-12636-060600-DRD-075	S--060600-DRD-074	12636Memo-96D	BH-9-9-00	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-060600-DRD-076		12636Memo-96D	BH-9-3-00	9	1.5 to 3.5 ft bgs	
S-12636-060600-DRD-077	S--060600-DRD-076	12636Memo-96D	BH-9-3-00	9	1.5 to 3.5 ft bgs	Duplicate
S-12636-060600-DRD-078		12636Memo-96D	BH-9-2-00	9	0.5 to 2.5 ft bgs	
S-12636-060600-DRD-079	S--060600-DRD-078	12636Memo-96D	BH-9-2-00	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-060600-DRD-080		12636Memo-96D	BH-9-11-00	9	0.33 to 2.33 ft bgs	
S-12636-060600-DRD-081	S--060600-DRD-080	12636Memo-96D	BH-9-11-00	9	0.33 to 2.33 ft bgs	Duplicate
S-12636-060600-DRD-082		12636Memo-96D	BH-9-12-00	9	0.5 to 2.5 ft bgs	
S-12636-060600-DRD-083		12636Memo-96D	BH-9-17-00	9	0.42 to 2.42 ft bgs	
S-12636-060600-DRD-084		12636Memo-96D	BH-9-18B-00	9	2 to 4 ft bgs	
S-12636-060600-DRD-085		12636Memo-96D	BH-9-19-00	9	0.5 to 2.5 ft bgs	MS/MSD
S-12636-060600-KMV-108		12636Memo-96D	BH-8-4-00	8	0.5 to 2 ft bgs	MS/MSD
S-12636-060600-KMV-109		12636Memo-96D	BH-9-25-00	9	0.8 to 1.8 ft bgs	
S-12636-060600-KMV-110		12636Memo-96D	BH-9-25-00	9	6 ft bgs	
S-12636-060700-DRD-086		12636Memo-96D	BH-9-20-00	9	0.42 to 2.42 ft bgs	
S-12636-060700-DRD-087		12636Memo-96D	BH-9-20-00	9	15 to 16 ft bgs	MS/MSD
S-12636-060700-DRD-088		12636Memo-96D	BH-9-15-00	9	0.66 to 2.66 ft bgs	
S-12636-060700-DRD-089		12636Memo-96D	BH-9-5E-00	9	0.75 to 2.75 ft bgs	
S-12636-061200-DRD-090		12636Memo-96D	BH-9-19B-00	9	14.42 to 15.5 ft bgs	MS/MSD
S-12636-061200-DRD-091		12636Memo-96D	BH-9-22C-00	9	0.83 to 2.83 ft bgs	
S-12636-061200-DRD-092		12636Memo-96D	BH-9-16B-00	9	0.66 to 2.66 ft bgs	
S-12636-061200-DRD-093	S--061200-DRD-092	12636Memo-96D	BH-9-16B-00	9	0.66 to 2.66 ft bgs	Duplicate
S-12636-061200-DRD-094		12636Memo-96D	BH-9-14D-00	9	0.83 to 2.83 ft bgs	MS/MSD
S-12636-061200-DRD-095		12636Memo-96D	BH-9-1C-00	9	1 to 3 ft bgs	
S-12636-061401-NB-002		12636Memo-135D	BASE1	9	6 ft bb	MS/MSD
S-12636-061401-NB-003		12636Memo-135D	BASE2	9	6 ft bb	
S-12636-062602-DD-003		12636Memo-153D/154D	BH-9-1-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-004	S-062602-DD-003	12636Memo-153D/154D	BH-9-1-02	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-062602-DD-006		12636Memo-153D/154D	BH-9-2-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-008		12636Memo-153D/154D	BH-9-3-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-010		12636Memo-153D/154D	BH-9-4-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-012		12636Memo-153D/154D	BH-9-5-02	9	0.66 to 2.66 ft bgs	
S-12636-062602-DD-014		12636Memo-153D/154D	BH-9-6-02	9	0.66 to 2.66 ft bgs	
S-12636-062602-DD-015	S-062602-DD-014	12636Memo-153D/154D	BH-9-6-02	9	0.66 to 2.66 ft bgs	Duplicate
S-12636-062602-DD-017		12636Memo-153D/154D	BH-9-7-02	9	0.66 to 2.66 ft bgs	
S-12636-062602-DD-019		12636Memo-153D/154D	BH-9-8-02	9	0.66 to 2.66 ft bgs	
S-12636-062602-DD-023		12636Memo-153D/154D	BH-9-10-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-025		12636Memo-153D/154D	BH-9-11-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-026	S-062602-DD-025	12636Memo-153D/154D	BH-9-11-02	9	0.5 to 2.5 ft bgs	Duplicate
S-12636-062602-DD-032		12636Memo-153D/154D	BH-9-14-02	9	0.5 to 2.5 ft bgs	
S-12636-062602-DD-034		12636Memo-153D/154D	BH-9-15-02	9	0.5 to 2.5 ft bgs	
S-12636-062702-DD-040		12636Memo-153D/154D	BH-2-2-02	2	0 to 2 ft bgs	
S-12636-062702-DD-041	S--062702-DD-040	12636Memo-153D/154D	BH-2-2-02	2	0 to 2 ft bgs	Duplicate
S-12636-062702-DD-043		12636Memo-153D/154D	BH-2-3-02	2	0 to 2 ft bgs	MS/MSD

TABLE 4.2

RFI SOIL SAMPLE KEY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID	*Parent Sample ID*	*Data Validation Memo*	*Location*	*AOI*	*Sample Interval*	*QA/QC*
S-12636-062702-DD-049		12636Memo-153D/154D	BH-2-6-02	2	0 to 2 ft bgs	
S-12636-062702-DD-051		12636Memo-153D/154D	BH-2-7-02	2	0 to 2 ft bgs	
S-12636-062702-DD-055		12636Memo-153D/154D	BH-11-1-02	11	0 to 2 ft bgs	
S-12636-062702-DD-056	S--062702-DD-055	12636Memo-153D/154D	BH-11-1-02	11	0 to 2 ft bgs	Duplicate
S-12636-062702-DD-062		12636Memo-153D/154D	BH-11-4-02	11	0 to 2 ft bgs	MS/MSD
S-12636-062702-DD-066		12636Memo-153D/154D	BH-11-6-02	11	0 to 2 ft bgs	
S-12636-062702-DD-068		12636Memo-153D/154D	BH-11-7-02	11	0 to 2 ft bgs	
S-12636-070800-DRD-150		12636Memo-96D	BH-9-5C-00	9	4 to 6 ft bgs	MS/MSD
S-12636-070800-DRD-151		12636Memo-96D	BH-9-13C-00	9	4 to 6 ft bgs	
S-12636-070800-DRD-152		12636Memo-96D	BH-9-21B-00	9	2 to 4 ft bgs	
S-12636-081400-KMV-001		12636Memo-79D	BH-3-1-00	3	8 to 9.5 ft bgs	
S-12636-081400-KMV-002		12636Memo-79D	BH-3-2-00	3	9 to 10 ft bgs	
S-12636-081400-KMV-003		12636Memo-79D	BH-3-3-00	3	8 to 9 ft bgs	
S-12636-081400-KMV-004	S--081400-KMV-003	12636Memo-79D	BH-3-3-00	3	8 to 9 ft bgs	Duplicate
S-12636-081400-KMV-005		12636Memo-79D	BH-3-4-00	3	8 to 8.5 ft bgs	
S-12636-081400-KMV-006		12636Memo-79D	BH-3-5-00	3	8.5 to 9 ft bgs	
S-12636-081400-KMV-007		12636Memo-79D	BH-3-6-00	3	8.5 to 9 ft bgs	
S-12636-081400-KMV-008		12636Memo-79D	BH-3-7-00	3	8.5 to 9 ft bgs	
S-12636-081400-KMV-009		12636Memo-79D	BH-3-8-00	3	8.5 to 9 ft bgs	

Notes:

ft bgs - feet below ground surface
ft bb - feet below basement
MS - matrix spike
MSD - matrix spike duplicate

TABLE 4.3

RFI GROUNDWATER SAMPLE KEY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID	*Parent Sample ID*	*Data Validation Memo*	*Location*	*AOI*	*QA/QC*
W-12636-060700-KMV-501		12636Memo-96D	MW-10	15	MS/MS
W-12636-060700-KMV-502		12636Memo-96D	MW-4	15	
W-12636-060700-KMV-503		12636Memo-96D	MW-3	18	
W-12636-060700-KMV-504		12636Memo-96D	MW-13	2	
W-12636-060700-KMV-505	W-12636-060700-KMV-504	12636Memo-96D	MW-13	2	Duplicate
W-12636-060700-KMV-506		12636Memo-96D	PFW-9	14	
GW-12636-100802-DD-001		12636Memo-155D	PFW-1	none	
GW-12636-100802-DD-002		12636Memo-155D	PFW-1	none	
GW-12636-100902-DD-003		12636Memo-155D	PFW-1	none	
GW-12636-101702-DD-004		12636Memo-155D	MW-3	18	
GW-12636-101702-DD-005	GW-12636-101702-DD-004	12636Memo-155D	MW-3	18	Duplicate
GW-12636-101702-DD-006		12636Memo-155D	PFW-10	7	
GW-12636-101702-DD-007		12636Memo-155D	PFW-9	14	

TABLE 4.4

RFI RINSATE SAMPLE KEY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Sample ID	*Associated Borehole Number*
W-12636-052600-DRD-01	BH-2-2-00
W-12636-053000-DRD-002	BH-11-1-00
W-12636-053000-DRD-003	BH-13-1-00
W-12636-053100-DRD-004	BH-14-1-00
W-12636-053100-DRD-005	BH-14-2-00
W-12636-060100-DRD-006	BH-18-4-00
W-12636-060200-DRD-007	BH-8-3-00
W-12636-060500-DRD-008	BH-19-4-00
W-12636-060700-DRD-009	BH-9-20B-00
W-12636-060700-DRD-010	BH-9-20D-00
W-12636-060700-DRD-011	BH-9-22A-00
W-12636-061200-DRD-015	BH-9-16-00
W-12636-061200-DRD-016	BH-9-14-00
W-12636-061200-DRD-017	BH-9-22A-00
W-12636-061200-DRD-018	NA

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BK-1-00	Background	24-May-00	30	3' 7'	NA NA	0' to 4' -- Silt 4' to 9' -- Clay 9' to 10' -- Silt 10' to 15.5' -- Clay 15.5' to 17' -- Silt 17' to 25' -- Clay 25' to 26.42' -- Sand 26.42' to 28' -- Clay 28' to 28.42' -- Sand 28.42' to 29.08' -- Clay 29.08' to 29.25' -- Sand 29.25' to 30' -- Clay	yes	25' to 26.5'	1.5'	no	no	- -
BK-2-00	Background	24-May-00	30	4' 10'	NA NA	0' to 0.5' -- Topsoil 0.5' to 6' -- Silt 6' to 6.5' -- Clay 6.5' to 9.25' -- Silt 9.25' to 20.42' -- Clay 20.42' to 24' -- Silt 24' to 25.5' -- Clay 25.5' to 27' -- Sand 27' to 30' -- Clay	no	- -	- -	no	no	- -
BK-3-00	Background	25-May-00	30	5' 11'	NA NA	0.25' to 3' -- Sand 3' to 16.17' -- Clay 16.17' to 16.67' -- Sand 16.67' to 30' -- Clay	no	- -	- -	no	no	- -
BK-4-00	Background	25-May-00	30	5' 10'	NA NA	0.33' to 2' -- sand 2' to 7' -- Clay 7' to 8.33' -- Silt 8.33' to 30' -- Clay	no no	- -	- -	no no	no no	- -
BH-2-1-00	2	26-May-00	25	0' to 2'	0' to 2'	0' to 0.5' --Topsoil 0.5' to 5.42' -- Silt 5.42' to 13.25' Clay 13.25' to 14.83' Sand 14.83' to 25' -- Clay	no	- -	- -	no	no	Offset 15' due to obstruction
BH-2-1A-00	2	26-May-00	12	0	NA	0' to 0.5' -- topsoil 0.5' to 2.5' -- silt 2.5' to 12' -- sand	no	- -	- -	no	no	refusal at 12'
BH-2-2-00	2	26-May-00	25	0' to 2'	0' to 2'	0' to 1.5' -- topsoil 1.5' to 3.08' -- silt 3.08' to 9' -- sand 9' to 12.58' -- silt (till) 12.58'-18.08'- silty sand 18.08' to 25' -- clay	yes	18'	2'	no	no	- -
BH-2-3-00	2	26-May-00	15	0' to 2'	0' to 2'	0' to 0.67' -- Topsoil 0.67' to 1.33' -- Sand 1.33' to 4.67' -- Silt 4.67' to 15' -- Clay	no	- -	- -	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-2-1-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0.75' to 2' 4' to 6'	0' to 0.75' -- Concrete 0.75' to 2.5' -- Sand (Fill) 2.5' to 6' -- Clay	no	- -	- -	no	no	- -
BH-2-2-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0.75' to 2' 4' to 6'	0' to 0.75' -- Concrete 0.75' to 1' -- Sand (Fill) 1' to 6' -- Clay	no	- -	- -	no	no	- -
BH-2-3-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 0.7' -- Silt (Fill) 0.7' to 6' -- Clay	no	- -	- -	no	no	- -
BH-2-4-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 6' -- Sand (Fill)	yes	3.5'	2.5'	no	no	- -
BH-2-5-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 3.5' -- Sand (Fill) 3.5' to 6' -- Clay	no	- -	- -	no	no	- -
BH-2-6-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 0.7' -- Sand (Fill) 0.7' to 6' -- Clay	no	- -	- -	no	no	- -
BH-2-7-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 1' -- Sand (Fill) 1' to 3' -- Clay (Fill) 3' to 6' -- Sand (Fill)	yes	3.5'	2.5'	no	no	- -
BH-2-8-02	2	27-Jun-02	6	0' to 2' 4' to 6'	0.8' to 2' 4' to 6'	0' to 0.8' -- Concrete 0.8' to 2.1' -- Sand (Fill) 2.1' to 3' -- Clay (Fill) 3' to 6' -- Sand (Fill)	yes	3'	3'	no	no	- -
BH-3-1-00	3	14-Aug-00	10	8' to 9.5'	NA	0' to 8.5' - Sand (fill) 8.5' to 10' - Clay	yes	6'	2.5'	no	no	Slight odors at 5'
BH-3-2-00	3	14-Aug-00	12	9' to 10'	NA	0' to 10' - Sand (fill) 10' to 12' - Clay	yes	6'	4'	no	1.2ppm = 6'	- -
BH-3-3-00	3	14-Aug-00	10	8' to 9'	NA	0' to 9' - Sand (fill) 9' to 10' - Clay	yes	6'	3'	no	1.0ppm = 6'	- -
BH-3-4-00	3	14-Aug-00	10	8' to 8.5'	NA	0' to 8.5' - Sand (fill) 8.5' to 10' - Clay	yes	5'	3.5'	no	1.7ppm = 5'	- -
BH-3-5-00	3	14-Aug-00	10	8.5' to 9'	NA	0' to 9' - Sand (fill) 9' to 10' - Clay	yes	5'	4'	no	0.3ppm = 5'	- -
BH-3-6-00	3	14-Aug-00	10	8.5' to 9'	NA	0' to 9' - Sand (fill) 9' to 10' - Clay	yes	6'	3'	no	no	- -
BH-3-7-00	3	14-Aug-00	10	8.5' to 9'	NA	0' to 9' - Sand (fill) 9' to 10' - Clay	yes	6'	3'	no	2.8ppm = 6'	- -
BH-3-8-00	3	14-Aug-00	10	8.5' to 9'	NA	0' to 9' - Sand (fill) 9' to 10' - Clay	yes	6'	3'	no	0.8ppm = 6'	- -
BH-8-1-00	8	2-Jun-00	12	0	NA	0' to 0.17' -- Concrete 0.17' to 12' -- Gravel	no	- -	- -	no	no	Refusal at 12'; no sample recovery

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-8-1A-00	8	2-Jun-00	15	0.67' to 2.67' 5' to 7'	0' to 2' NA	0' to 0.67' -- Concrete 0.67' to 3.25' -- Sand 3.25' to 15' -- Clay	no	- -	- -	no	no	- -
BH-8-2-00	8	5-Jun-00	10	0.42' to 2.42'	0' to 2'	0' to 0.42' -- Concrete 0.42' to 1.25' -- Sand 1.25' to 10' -- Clay	no	- -	- -	yes -- to 1.25'	no	Slight odor at 0' to 2'
BH-8-3-00	8	2-Jun-00	12	0	NA	0' to 0.17' -- Concrete 0.17' to 12' -- Gravel	no	- -	- -	no	no	Refusal at 12'; no sample recovery
BH-8-3A-00	8	2-Jun-00	15	0.67' to 2.67'	0' to 2'	0' to 0.67' -- Concrete 0.67' to 3.83' -- Sand 3.83' to 15' -- Clay	no	- -	- -	no	no	- -
BH-8-4-00	8	6-Jun-00	12	0.5' to 2'	0' to 1.5'	0 to 0.5' -- Concrete 0.5' to 2' -- Sand (fill) 2' to 12' -- Clay (till)	no	- -	- -	yes	1.4 ppm = 1' 11.6 ppm = 1.5' 1.7 ppm = 2'	Black sands
BH-8-5-00	8	2-Jun-00	10	0' to 2'	0' to 2'	0' to 1' -- Silt 1' to 10' -- Clay	no	- -	- -	no	no	- -
BH-9-1A-00	9	6-Jun-00	2.5'	0	NA	0' to 1' -- Concrete 1' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5'; poor sample recovery
BH-9-1B-00	9	6-Jun-00	2.5'	0	NA	0' to 1' -- Concrete 1' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5'; poor sample recovery
BH-9-1C-00	9	12-Jun-00	15'	1' to 3'	0' to 2'	0' to 1' -- Concrete 1' to 5.58' -- Sand 5.58' to 9.08' -- Silty Clay 9.08' to 9.17' -- Coal 9.17' to 10' -- Clay 10' to 11.5' -- Sand 11.5' to 11.52' Coal 11.52' to 15' -- Clay	no	- -	- -	slight leaching black stains beneath coal at 9.17'	no	Cored June 7, no odors, no PID readings
BH-9-1D-00	9	6-Jun-00	0.5' plus	0	NA	0' to 0.5' -- Concrete	no	- -	- -	no	no	Could not drill through concrete
BH-9-2-00	9	6-Jun-00	20	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 7.5' -- Sand 7.5' to 8.5' -- Clay 8.5' to 12.33' -- Sand 12.33' to 20' -- Clay	no	- -	- -	no	no	- -
BH-9-3A-00	9	6-Jun-00	2.5'	0	NA	0' to 0.83' -- concrete 0.83' to 2.5' -- sand	no	- -	- -	no	no	refusal at 2.5'
BH-9-3B-00	9	6-Jun-00	2'	0	NA	0' to 0.83' -- concrete 0.83' to 2' -- sand	no	- -	- -	no	no	refusal at 2'

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-3-00	9	6-Jun-00	20	1.5' to 3.5'	0' to 2'	0' to 1.5' -- Concrete 1.5' to 7.67' -- Sand 7.67' to 9.92' -- Clay 9.92' to 13.67' -- Sand 13.67' to 20' -- Clay	no	- -	- -	no	no	- -
BH-9-4-00	9	6-Jun-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5`to 1' -- Sand 1' to 2' -- Silt 2' to 10' -- Clay	no	- -	- -	no	no	- -
BH-9-5A-00	9	6-Jun-00	2.5'	0	NA	0' to 0.83' -- Concrete 0.83' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5' no sample recovered
BH-9-5B-00	9	6-Jun-00	1.5'	0	NA	0' to 0.83' -- Concrete 0.83' to 1.5' -- Sand	no	- -	- -	no	no	Refusal at 1.5' no sample recovered
BH-9-5C-00	9	8-Jul-00	13'	4' to 6'	1' to 3'	0' to 3' -- Concrete 3' to 5' -- Sand 5' to 13' -- Clay	no	- -	- -	no	no	Sample collected during July 8 event
BH-9-5D-00	9	6-Jun-00	2.5'	0	NA	0' to 0.83' -- Concrete 0.83' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5' no sample recovered
BH-9-5E-00	9	7-Jun-00	6'	0.75' to 2.75'	0' to 2'	0' to 0.75' -- Concrete 0.75' to 6' -- Sand	no	- -	- -	no	no	Refusal at 6'
BH-9-6-00	9	5-Jun-00	15	0.33' to 2.33'	0' to 2'	0' to 0.33' -- Concrete 0.33' to 0.83' -- Sand 0.83' to 5.42' -- Clay 5.42' to 5.83' - Sand 5.83' to 15' -- Clay	no	- -	- -	no	no	- -
BH-9-7-00	9	5-Jun-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 0.83' -- Sand 0.83' to 10' -- Clay	no	- -	- -	no	no	- -
BH-9-8-00	9	5-Jun-00	20	4' to 6'	0' to 2'	0' to 4' -- Concrete 4' to 11' -- Sand 11' to 20' -- Clay	yes	10'	1'	no	no	- -
BH-9-9-00	9	6-Jun-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 1' -- Sand 1' to 10' -- Clay	no	- -	- -	no	no	- -
BH-9-10-00	9	5-Jun-00	15	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 3.83' -- Sand 3.83' to 5.33' -- Clay 5.33' to 7.17' -- Sand 7.17' to 15' -- Clay	no	- -	- -	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-11-00	9	6-Jun-00	15	0.33' to 2.33'	0' to 2'	0' to 0.33' -- Concrete 0.33' to 7.5' -- Sand 7.5' to 8.17' -- Clay (fill) 8.17' to 8.33' -- Concrete 8.33' to 15' -- Clay	no	- -	- -	no	no	- -
BH-9-12-00	9	6-Jun-00	20	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 2.83' -- Sand 2.83' to 3.08' -- Clay 3.08' to 3.5' -- Sand 3.5' to 3.75' -- Clay 3.75' to 9'` -- Sand 9' to 18.5' -- Clay 18.5' to 19' -- Sand 19' to 20' -- Clay	no	- -	- -	no	no	Faint odor at 0.5' to 4'
BH-9-13-00	9	6-Jun-00	2.5	0	NA	0' to 1' - Concrete 1' to 2.5' - Sand	no	- -	- -	no	no	Refusal at 2.5'
BH-9-13A-00	9	6-Jun-00	2.5	0	NA	0' to 1' - Concrete 1' to 2.5' - Sand	no	- -	- -	no	no	Refusal at 2.5'
BH-9-13B-00	9	6-Jun-00	2.5	0	NA	0' to 1' - Concrete 1' to 2.5' - Sand	no	- -	- -	no	no	Refusal at 2.5'
BH-9-13C-00	9	8-Jul-00	15	4' to 6'	1.7' to 3.7'	0' to 1' - Concrete 1' to 2' - Sand 2' to 2.1' - Asphalt 2.1' to 2.3' - Concrete 2.3' to 5' - Sand 5' to 15' - Clay	no	- -	- -	no	no	Sample collected during July 8 event
BH-9-14A-00	9	6-Jun-00	3'	0	NA	0' to 0.83' -- Concrete 0.83' to 3.17' -- Sand	no	- -	- -	no	no	Refusal at 3.17'; poor sample recovery
BH-9-14B-00	9	6-Jun-00	0.67'	0	NA	0' to 0.67' -- Concrete	no	- -	- -	no	no	Contractor could not drill through concrete
BH-9-14C-00	9	7-Jun-00	2.8'	0	NA	0' to 0.83' -- Concrete 0.83' to 2.8' -- Sand	no	- -	- -	no	no	Refusal at 2.75'; poor sample recovery
BH-9-14D-00	9	12-Jun-00	15'	0.83' to 2.83'	0' to 2'	0' to 0.83' -- Concrete 0.83' to 2.58' -- Sand 2.58' to 4' -- Clay 4' to 4.17' -- Sandy Silt 4.17' to 15' -- Clay	no	- -	- -	no	no	Cored June 7, drilled June 12
BH-9-15-00	9	7-Jun-00	15	0.67' to 2.67'	0' to 2'	0' to 0.67' -- Concrete 0.67' to 4.5' -- Sand 4.5' to 5.17' -- Clay 5.17' to 5.58' -- Sand 5.58' to 10.5' - Clay (till) 10.5' to 11.67' -- Sand 11.67' to 15' -- Clay	no	- -	- -	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-16A-00	9	5-Jun-00	0.67'	0	NA	0' to 0.67' -- Concrete	no	- -	- -	no	no	Cored, offset due to placement of rolloff boxes
BH-9-16B-00	9	12-Jun-00	10'	0.67' to 2.67'	0' to 2'	0' to 0.67' -- Concrete 0.67' to 1' -- Sand 1' to 10' -- Clay	no	- -	- -	no	no	Cored June 7, drilled June 12
BH-9-17-00	9	6-Jun-00	20	0.42' to 2.42'	0' to 2'	0' to 0.42' -- Concrete 0.42' to 8' -- Sand 8' to 9.5' -- Clay 9.5' to 9.83' -- Sand 9.83' to 19' -- Clay 19' to 20' -- Sand	no	- -	- -	no	no	- -
BH-9-18A-00	9	6-Jun-00	1.75'	0	NA	0' to 0.5' -- Concrete 0.5' to 1.75' -- Sand	no	- -	- -	no	no	Refusal at 1.75'; poor sample recovery
BH-9-18B-00	9	6-Jun-00	15	2' to 4'	0.5' to 1.5'	0 to 1.5' -- Concrete 1.5' to 2.33' -- Sand 2.33' to 8' -- Clay 8' to 8.25' -- Sandy Silt 8.25' to 15' -- Clay	no	- -	- -	no	no	Offset due to obstruction heavy black stain at 0.5' to 1.5'
BH-9-19-00	9	6-Jun-00	15	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 12.75' -- Sand 12.75' to 13.92' -- Clay 13.92' to 15' -- Sand at 15' -- Refusal	no	- -	- -	no	no	Refusal at 15'
BH-9-19B-00	9	12-Jun-00	25	14.33'-15.5'	NA	0' to 0.67' -- Concrete 0.67' to 9.25' -- Sand 9.25' to 10.17' -- Clay 10.17' to 14.5' -- Sand 14.5' to 25' -- Clay	no	- -	- -	no	no	Location offset to determine strat beyond 15' (see BH-9-19A-00)
BH-9-20A-00	9	7-Jun-00	0.83'	0	NA	0' to 0.83' -- Concrete	no	- -	- -	no	no	Cored above basement
BH-9-20B-00	9	7-Jun-00	2.5'	0	NA	0' to 0.5' -- Concrete 0.5' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5'
BH-9-20C-00	9	7-Jun-00	0.42'	0	NA	0' to 0.42' -- Concrete	no	- -	- -	no	no	Geoprobe could not drill through concrete
BH-9-20-00	9	7-Jun-00	25	0.42' to 2.42' 15' to 16'	0' to 2' NA	0' to 0.42' -- Concrete 0.42' to 16' -- Silty Sand 16' to 20.92' -- Clay 20.92' to 21.92' -- Clay 21.92' to 25' -- Clay	no	- -	- -	15.67' to 16'	no	Some staining at bottom of silty sand layer/ top of clay; no odor, no PID readings
BH-9-21A-00	9	7-Jun-00	2.5	0	NA	0' to 0.58' - Concrete 0.58' to 2.5' - Sand	no	- -	- -	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-21B-00	9	8-Jul-00	12	2' to 4'	0' to 2'	0' to 0.58' - Concrete 0.58' to 1.0' - Sand 1.0' to 2.0' - Concrete & Asphalt 2.0' to 3.0' - Sand 3.0' to 3.5' - Clay 3.5' to 5.5' - Sand 5.5' to 12' - Clay	no	- -	- -	no	no	Sample collected during July 8 event
BH-9-21C-00	9	7-Jun-00	2.5	0	NA	0' to 0.67' - Concrete 0.67' to 2.5' - Sand	no	- -	- -	no	no	Refusal
BH-9-21D-00	9	7-Jun-00	1.5	0	NA	0' to 0.67' - Concrete 0.67' to 1.5' - Sand	no	- -	- -	no	no	Refusal
BH-9-21E-00	9	7-Jun-00	2.5	0	NA	0' to 0.67' - Concrete 0.67' to 1.5' - Sand	no	- -	- -	no	no	Refusal
BH-9-22A-00	9	7-Jun-00	1.5'	0	NA	0' to 0.83' -- Concrete 0.83' to 1.5' -- Sand	no	- -	- -	no	no	Refusal at 1.5'; poor sample recovery
BH-9-22B-00	9	7-Jun-00	2.5'	0	NA	0' to 0.83' -- Concrete 0.83' to 2.5' -- Sand	no	- -	- -	no	no	Refusal at 2.5', cored June 7, drilled June 12
BH-9-22C-00	9	12-Jun-00	10'	0.83'- 2.83'	0' to 2'	0' to 0.83' -- Concrete 0.83' to 1.17' -- Sand 1.17' to 2.25' -- Clay 2.25' to 2.58' -- Sand 2.58' to 6.83' -- Clay 6.83' to 7.08' -- Silt 7.08' to 10' -- Clay	no	- -	- -	no	no	Chunk of 15m rebar retrieved in sample
BH-9-23-00	9	5-Jun-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 1' -- Sand 1' to 5.33' -- Silty Clay 5.33' to 5.58' -- Sand 5.58' to 10' -- Clay	no	- -	- -	no	no	Strong odors from 1' to 4'
BH-9-24-00	9	2-Jun-00	15	0.67' to 2.67'	0' to 2'	0' to 0.67' -- Concrete 0.67' to 4' -- Sand 4' to 15' -- Clay	no	- -	- -	no	0 to 3.5' -- 2.2 ppm 4' to 15' -- 0 ppm	Strong odor
BH-9-25-00	9	6-Jun-00	6.25'	0.8' to 1.8' 6'	0.13' to 1.13' NA	0 to 0.67' -- Concrete 0.67' to 1.67' -- Sand (fill) 1.67' to 6.25' -- Clay (till)	yes	0.58'	1'	no	1.7 ppm = 0.67' to 1.5'	- -
BH-9-26-00	9	5-Jun-00	4	1' to 2'	0.25' to 1.25'	0' to 0.75' -- Concrete 0.75' to 4' -- Sand (fill) 4' -- Refusal	no	- -	- -	yes	1' to 2' = 7.7 ppm 4' = 1.4 ppm	Metallic sheen & black from 0.75' to 4'
BH-9-26A-00	9	5-Jun-00	10	1' to 2'	0.25' to 1.25'	0' to 0.75' -- Concrete 0.75' to 1.33' -- Sand (fill) 1.33' to 10' -- Clay (till)	no	- -	- -	no	0.75' to 4' = 1.2 ppm	- -
BH-9-27-00	9	5-Jun-00	12	1' to 2'	0.42' to 1.42'	0' to 0.58' -- concrete 0.58' to 2' -- Sand (fill) 2' to 12' -- Clay (till)	yes	5'	0.5'	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-28-00	9	5-Jun-00	12	1.5' to 2'	0.83' to 1.33'	0 to 0.67' -- Concrete 0.67' to 1.5' -- Sand (fill) 1.5' to 12' -- Clay (till)	no	- -	- -	no	1.5' = 0.7 ppm	- -
BH-9-29-00	9	5-Jun-00	12	1' to 2' 10'	0.33' to 1.33' NA	0' to 0.67' -- Concrete 0.67' to 1.17' -- Sand (fill) 1.17' to 12' -- Clay (till)	no	- -	- -	no	no	- -
BH-9-30-00	9	5-Jun-00	12	1' to 2'	0.42' to 1.42'	0' to 0.58' -- Concrete 0.58' to 5.5' -- Sand (fill) 5.5' to 12' -- Clay (till)	no	- -	- -	no	0.58' to 4' = 1.0 ppm	- -
BH-1A-01	9	7-May-01	8.7	0' to 4' 4' to 8	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 1.5' -- Sand 1.5' to 2.5' -- Gravel 2.5' to 8.7' -- Clay	no	- -	- -	4' to 4.1'	no	- -
BH-1B-01	9	7-May-01	8.7	0' to 4' 4' to 8	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 1.7' -- Sand 1.7' to 8.7' -- Clay	yes	0.7'	1'	no	no	- -
BH-1E-01	9	7-May-01	8.7	0' to 4' 4' to 8	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 1.7' -- Sand 1.7' to 8.7' -- Clay	yes	0.7'	1'	no	no	- -
BH-1C-01	9	7-May-01	8.7	0' to 4' 4' to 8	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 7.7' -- Sand 7.7' to 8.7' -- Clay	no	- -	- -	no	no	- -
BH-3A-01	9	7-May-01	8.8	0' to 4' 4' to 8	0.8' to 4.8' 4.8' to 8.8'	0' to 0.8' -- Concrete 0.8' to 3.5' -- Sand (fill) 3.5' to 4' -- Clay (fill) 4' to 7.2' -- Sand 7.2' to 8.8' -- Clay	yes	0.8'	6.4	no	no	- -
BH-3F-01	9	4-May-01	8.8	0' to 4' 4' to 8	0.8' to 4.8' 4.8' to 8.8'	0' to 0.8' -- Concrete 0.8' to 3.2' -- Sand 3.2' to 8.8' -- Clay	no	- -	- -	no	no	- -
BH-4D-01	9	4-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 6.1' -- Sand 6.1' to 8.7' -- Clay	no	- -	- -	no	no	- -
BH-5C-01	9	2-May-01	9.3	0' to 2' 4' to 6'	1.3' to 3.3' 5.3' to 7.3'	0' to 1.3' -- Concrete 1.3' to 2.3' -- Sand 2.3' to 9.3' -- Clay						
BH-6B-01	9	4-May-01	8.5	0' to 4' 4' to 8'	0.5' to 4.5' 4.5' to 8.5'	0' to 0.5' -- Concrete 0.5' to 2' -- Sand 2' to 8.5' - Clay	no	- -	- -	no	no	- -
BH-6D-01	9	2-May-01	9	0' to 2' 6' to 8'	1' to 3' 7' to 9'	0' to 1' -- Concrete 1' to 2' -- Sand 2' - 9' -- Clay	yes	1'	1'	no	no	- -

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RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-6E-01	9	2-May-01	9.3	0' to 2' 4' to 6'	1.3' to 3.3' 5.3' to 7.3'	0' to 1.3' -- Concrete 1.3' to 2.3' -- Sand 2.3' to 9.3 -- Clay	no	- -	- -	no	no	- -
BH-7A-01	9	4-May-01	13.5	10' to 12' 12' to 13'	10.5' to 12.5' 12.5' to 13.5'	0' to 0.5' -- Concrete 0.5' to 6.5' -- Sand 6.5' to 7' -- Concrete (footing) 7' to 9' -- Sand 9' to 13.5' -- Clay	yes	7'	2'	no	no	- -
BH-7B-01	9	4-May-01	8.5	0' to 4' 4' to 8'	0.5' to 4.5' 4.5' to 8.5'	0' to 0.5' -- Concrete 0.5' to 2.5' -- Sand 2.5' to 8.5' -- Clay	yes	0.5'	2'	no	no	- -
BH-7C-01	9	4-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 2.2' -- Sand 2.2' to 8.7' -- Clay	no	- -	- -	no	no	- -
BH-8E-01	9	3-May-01	8.8	0' to 4' 4' to 8'	0.8' to 4.8' 4.8' to 8.8'	0' to 0.8' -- Concrete 0.8' to 1.8' -- Sand 1.8' to 8.8' -- Clay	yes	0.8'	1'	no	no	- -
BH-8F-01	9	3-May-01	8.8	0' to 4' 4' to 8'	0.8' to 4.8' 4.8' to 8.8'	0' to 0.8' -- Concrete 0.8' to 2.8' -- Sand 2.8' to 8.8' -- Clay	yes	0.8'	2'	no	no	- -
BH-9F-01	9	3-May-01	8.4	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.4'	0' to 0.7' -- Concrete 0.7' to 4.4' -- Sand 4.4' to 8.4' -- Clay	yes	0.7'	3.7'	no	no	- -
BH-10A-01	9	4-May-01	8.5	0' to 4' 4' to 8'	0.5' to 4.5' 4.5' to 8.5'	0' to 0.5' -- Concrete 0.5' to 3.0' -- Sand 3.0' to 8.5' -- Clay	yes	0.5'	2.5'	no	no	- -
BH-10B-01	9	4-May-01	8.6	0' to 4' 4' to 8'	0.6' to 4.6' 4.6' to 8.6'	0' to 0.6' -- Concrete 0.6' to 1.6' -- Sand 1.6' to 8.6' -- Clay	yes	0.6'	1'	no	no	- -
BH-10C-01	9	4-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 1.2' -- Sand 1.2' to 8.7' -- Clay	no	- -	- -	no	no	- -
BH-10D-01	9	3-May-01	8.6	0' to 4' 4' to 8'	0.6' to 4.6' 4.6' to 8.6'	0' to 0.6' -- Concrete 0.6' to 1.3' -- Sand 1.3' to 8.6' -- Clay	yes	0.6'	0.7'	no	no	- -
BH-25A-01	9	3-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 2.2' -- Sand 2.2' to 8.7' -- Clay	yes	0.7'	1.5'	no	no	- -
BH-25B-01	9	3-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 1.7' -- Sand 1.7' to 8.7' -- Clay	yes	0.7'	1'	no	no	- -
BH-25C-01	9	3-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 4.2' -- Sand 4.2' to 8.7' -- Clay	yes	0.7'	3.5'	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-25D-01	9	3-May-01	8.7	0' to 4' 4' to 8'	0.7' to 4.7' 4.7' to 8.7'	0' to 0.7' -- Concrete 0.7' to 3.9' -- Sand 3.9' to 4.2' -- Clay 4.2' to 8.7' -- Sand	yes	0.7'	3.2'	no	no	- -
BH-26A-01	9	3-May-01	8.8	0' to 4' 4' to 8'	0.8' to 4.8' 4.8' to 8.8'	0' to 0.8' -- Concrete 0.8' to 4.8' -- Sand 4.8' to 8.8' -- Clay	yes	0.8'	4'	no	no	- -
BH-26B-01	9	3-May-01	3.4	0' to 4'	1.1' to 3.4'	0' to 1.1' -- Concrete 1.1' to 3.4' -- Sand	no	- -	- -	no	no	- -
BH-26C-01	9	3-May-01	8.0	4' to 8'	4.0' to 8.0'	0' to 0.7' -- Concrete 0.7' to 4.0' -- Sand 4.0' to 8.0' -- Clay	yes	0.7'	3.3'	no	no	- -
BH-26D-01	9	3-May-01	8.8	0' to 4'	1.2' to 4.2'	0' to 1.2' -- Concrete 1.2' to 8.8' -- Gravel	yes	1.2'	7.6'	no	no	- -
BH-9-1-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 1' -- Sand (Fill) 1' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-2-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 6' -- Sand (Fill)	yes	2'	4'	no	no	- -
BH-9-3-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 1' -- Sand (Fill) 1' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-4-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 1.5' -- Sand (Fill) 1.5' to 3' -- Clay (Fill) 3' to 6' -- Sand (Fill)	yes	3'	3'	no	no	- -
BH-9-5-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.25' to 2' 4' to 6'	0' to 0.25' -- Concrete 0.25' to 3.8' -- Sand (Fill) 3.8' to 6' -- Clay	yes	2.5'	1.3'	no	no	- -
BH-9-6-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0' to 2' 4' to 6'	0' to 0.2' -- Silt (Fill) 0.2' to 0.7' -- Sand (Fill) 0.7' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-7-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 2' -- Silt (Fill) 2' to 6' -- Sand (Fill)	no	- -	- -	no	no	- -
BH-9-8-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 6' -- Sand (Fill)	yes	0.5'	1.5'	no	no	- -
BH-9-9-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Concrete 0.7' to 1' -- Sand (Fill) 1' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-10-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Concrete 0.7' to 6' -- Sand (Fill)	yes	2.5'	3.5'	5.5'	no	- -

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Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-9-11-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 6' -- Sand (Fill)	yes	5.5'	0.5'	no	no	- -
BH-9-12-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Concrete 0.7' to 1' -- Sand (Fill) 1' to 2.5' -- Clay (Fill) 2.5' to 4.5' -- Silt (Fill) 4.5' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-13-02	9	26-Jun-02	6	0' to 2' 4' to 4.5'	0.7' to 2' 4' to 4.5'	0' to 0.7' -- Concrete 0.7' to 4.5' -- Sand (Fill)	yes	3'	1.5'	no	no	- -
BH-9-14-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Concrete 0.7' to 6' -- Sand (Fill)	yes	5.4'	0.6'	no	no	- -
BH-9-15-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Concrete 0.7' to 1.5' -- Sand (Fill) 1' to 6' -- Clay	no	- -	- -	no	no	- -
BH-9-16-02	9	26-Jun-02	6	0' to 2' 4' to 6'	0.5' to 2' 4' to 6'	0' to 0.5' -- Concrete 0.5' to 6' -- Sand (Fill)	yes	1.8'	4.2'	no	no	- -
BH-11-1-00	11	30-May-00	20	2.5' to 4.5'	0' to 2'	0' to 2.5' -- Coal 2.5' to 4.33' -- Silt/Sand 4.33' to 5.5' -- Sand 5.5' to 8.5' -- Silt 8.5' to 10.17' -- Clay 10.17' to 11.75' -- Sand 11.75' to 13.33' -- Silt 13.33' to 20' -- Clay	no	0	0	no	no	- -
BH-11-2-00	11	30-May-00	15	1' to 3'	0' to 2'	0' to 1' -- Topsoil 1' to 1.5' -- Silt 1.5' to 3' -- Sand 3' to 5.58' -- Clay 5.58' to 7.58' -- Silt 7.58' to 8.17' -- Clay 8.17' to 8.67' -- Sand 8.67' to 15' -- Clay	no	0	0	no	no	- -
BH-11-3-00	11	30-May-00	20	2' to 4' 8.33' - 9.75'	0.25' to 2.25'	0 to 1.75' -- Coal 1.75' to 5.25' -- Clay 5.25' to 5.42' -- Coal 5.42' to 8.33' -- Silt 8.33'-10.42' -- Silt/Sand 10.42' to 12.58' -- Silt 12.58' to 20' -- Clay	no	0	0	no	8.33' -- 24 ppm 9.0 ' -- 98 ppm 9.75' -- 15 ppm	Stained area had strong odor and was moist to very moist but not saturated
BH-11-4-00	11	30-May-00	25	1.5' to 2.5'	1.5' to 2.5'	0' to 1.58' -- Sand Fill 1.58' to 2.42' -- Sand 2.42' to 10.17' -- Sand/Silt 10.17' to 13.67' -- Silt/Sand 13.67' to 16.33' -- Sand 16.33' to 25' -- Clay	yes	13.08'	2'	no	no	Best water zone 13.67' to 15.17' may be backfill of conveyor trusses

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-11-5-00	11	30-May-00	10	1' to 3'	0.08' to 2.08'	0' to 0.92' -- Coal 0.92' to 1.58' -- Silt 1.58' to 10' -- Clay	no	0	0	no	no	- -
BH-11-1-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.8' to 2' 4' to 6'	0' to 0.8' -- Coal 0.8' to 5.5' -- Sand (Fill) 5.5' to 6' -- Clay	no	- -	- -	no	no	- -
BH-11-2-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.3' to 2' 4' to 6'	0' to 0.3' -- Coal 0.3' to 6' -- Clay (Fill)	no	- -	- -	no	no	- -
BH-11-3-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.25' to 2' 4' to 6'	0' to 0.25' -- Coal 0.25' to 3.7' -- Sand (Fill) 3.7' to 6' -- Clay	no	- -	- -	no	no	- -
BH-11-4-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.2' to 2' 4' to 6'	0' to 0.2' -- Coal 0.2' to 0.6' -- Sand (Fill) 0.6' to 6' -- Clay	no	- -	- -	no	no	- -
BH-11-5-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.2' to 2' 4' to 6'	0' to 0.2' -- Coal 0.2' to 0.5' -- Sand (Fill) 0.5' to 3.5' -- Clay (Fill) 3.5' to 4.5' -- Sand (Fill) 4.5' to 6' -- Clay (Fill)	no	- -	- -	no	no	- -
BH-11-6-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.4' to 2' 4' to 6'	0' to 0.4' -- Coal 0.4' to 1' -- Sand (Fill) 1' to 2' -- Silt (Fill) 2' to 2.5' -- Clay (Fill) 2.5' to 4.6' -- Sand (Fill) 4.6' to 6' -- Clay	no	- -	- -	no	no	- -
BH-11-7-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.7' to 2' 4' to 6'	0' to 0.7' -- Coal 0.7' to 6' -- Clay	no	- -	- -	no	no	- -
BH-11-8-02	11	27-Jun-02	6	0' to 2' 4' to 6'	0.25' to 2' 4' to 6'	0' to 0.25' -- Coal 0.25' to 6' -- Clay	no	- -	- -	no	no	- -
BH-12-1-00	12	30-May-00	10	1.5' to 2.5'	1.5' to 2.5'	0.25' to 1.67' -- Sand 1.67' to 10' -- Clay	no	0	0	no	no	- -
BH-12-2-00	12	30-May-00	10	0.5' to 2.5'	0.5' to 2.5'	0.25' to 0.75' -- Sand 0.75' to 5.25' -- Clay 5.25' to 5.58' -- Silty Sand 5.58' to 10' -- Clay	yes	5'	1'	no	no	- -
BH-13-1-00	13	30-May-00	15	0' to 2'	0' to 2'	0' to 2.33' -- Sand 2.33' to 5.5' -- Clay 5.5' to 8' -- Silty Sand 8' to 15' -- Clay	no	0	0	no	no	- -
BH-13-2-00	13	30-May-00	10	0.42' to 2.42'	0' to 2'	0' to 0.42' -- Concrete 0.42' to 0.75' -- Sand 0.75' to 10' -- Clay	no	0	0	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-14-1-00	14	31-May-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Topsoil 0.5' to 3.17' -- Silt 3.17' to 10' -- Clay	no	0	0	no	no	- -
BH-14-2-00	14	31-May-00	15	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Topsoil 0.5' to 7.67' -- Silt 7.67' to 15' -- Clay	no	0	0	no	no	- -
BH-17-1-00	17	31-May-00	20	2' to 3' 8' to 9'	1.75' to 2.75' NA	0' to 0.25' -- Asphalt 0.25' to 7.42' -- Sand 7.42' to 13.25' -- Clay 13.25' to 15' -- Sand 15' to 20' -- Clay	yes	4.25' - 7.42' is moist to very moist and dilatent	1.5'	no	no	- -
BH-17-2-00	17	31-May-00	25	0.5' to 2.5'	0' to 2'	0' to 5' -- Sand 5' to 9.33' -- Clay 9.33' to 15.17' -- Sand/Silt 15.17' to 25' -- Clay	yes	10.75' is very moist to wet, fine grained and dilatent	5'	no	no	- -
BH-17-2A-00	17	31-May-00	5	1' to 3'	1' to 3'	0' to 0.75' -- Sand 0.75' to 5' -- Clay	no	0	0	no	no	Moved at 5' depth due to obstruction
BH-18-1-00	18	31-May-00	15	2' to 3'	2' to 3'	0.5' to 1' -- Sand 1' to 15' -- Clay	no	0	0	no	no	- -
BH-18-2-00	18	1-Jun-00	30	0.67' to 3' 20' to 21'	0' to 2.33' NA	0' to 0.67' -- Concrete 0.67' to 10' -- Clay 10' to 12.33'--Sand 12.33' to 18' -- Clay 18' to 20.33' -- Sand 20.33' to 27.5' -- Clay 27.5' to 30' -- Sand/Silt	yes	18' v moist to wet 27.5' v moist to wet	2' 2.5'	no	1' -- 60 ppm 2.5' -- 40 ppm 4' -- 12 ppm	- -
BH-18-3-00	18	1-Jun-00	10	0.5' to 1.5'	0' to 1'	0' to 0.5' -- Concrete 0.5' to 1' -- Sand 1' to 10' -- Clay	no	0	0	no	no	- -
BH-18-4-00	18	1-Jun-00	10	0.5' to 3' 5' to 6'	0' to 2.5'	0' to 0.5' -- Concrete 0.5' to 10' -- Clay	no	0	0	no	5'-6' -- 45 ppm	No odor
BH-19-1-00	19	5-Jun-00	15	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 1.17' -- Sand 1.17' to 3.58'-- Silt 3.58' to 4.58' -- Silty Sand 4.58' to 15' -- Clay	no	0	0	no	no	Slight odor at 0' to 4.58'
BH-19-2-00	19	2-Jun-00	10	0.5' to 2.5'	0' to 2'	0' to 0.5' -- Concrete 0.5' to 10' -- Clay	no	0	0	no	no	- -
BH-19-3-00	19	5-Jun-00	10	0.42' to 2.42'	0' to 2'	0' to 0.42' -- Concrete 0.42' to 2.17' -- Sand 2.17' to 10' -- Clay	no	0	0	no	no	- -

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
BH-19-4-00	19	5-Jun-00	25	1' to 3' 9' to 10'	0' to 2'	0' to 1' -- Concrete 1' to 12.33' -- Sand 12.33' to 14.17' -- Silt 14.17' to 14.5'-Clay 14.5' to 15.67' Sand 15.67' to 16.17' - Silt 16.17' to 16.75' -- Sand 16.75' to 25' -- Clay	yes	10' wet dilatent sand	2.4'	dark sand at 10'	no	Strong odor at 10'
BH-19-5-00	19	2-Jun-00	10	0.58' to 3'	0' to 2.42'	0' to 0.58' -- Concrete 0.58' to 10' -- Clay	no	0	0	no	no	- -
BH-19-6-00	19	5-Jun-00	10	0.42' to 2.42' 5.5' to 6.5'	0' to 2' NA	0' to 0.42' -- Concrete 0.42' to 1' -- Sand 1' to 5.67' -- Silty Clay 5.67' to 6.42' -- Sand 6.42' to 10' -- Clay	no	0	0	no	no	Faint odor at 1' and 6'
BH-19-7-00	19	2-Jun-00	10	0.5' to 2.5'	0.08' to 2.08'	0' to 0.42' -- Concrete 0.42' to 10' -- Clay	no	0	0	no	no	- -
BH-19-8-00	19	2-Jun-00	15	0.58' to 3'	0' to 2.42'	0' to 0.58' -- Concrete 0.58' to 5.33' -- Sand 5.33' to 15' -- Clay	no	0	0	no	1.5' -- 35 ppm 2.5' -- 78 ppm 4.0' -- 24 ppm 4.5' -- 0 ppm	Faint sweet odor
BH-20-1-00	20	1-Jun-00	10	0.33' to 2.33'	0' to 2'	0.33' to 0.83' -- Sand 0.83' to 10' -- Clay	no	0	0	no	no	
BH-20-2-00	20	1-Jun-00	10	0.42' to 3'	0' to 2.58'	0' to 0.42' -- Concrete 0.42' to 1' -- Sand 1' to 10' -- Clay	no	0	0	no	no	- -
BH-20-3-00	20	1-Jun-00	15	0.67' to 3'	0' to 2.33'	0' to 0.67' -- Concrete 0.67' to 5.83' -- Sand 5.83' to 15' -- Clay	yes	5'	0.83'	no	no	- -
BH-20-4-00	20	1-Jun-00	10	0.67' to 3'	0' to 2.33'	0' to 0.67' -- Concrete 0.67' to 1.5' -- Sand 1.5' to 10' -- Clay	no	0	0	no	no	- -
BH-21-1-00	21	31-May-00	20	0' to 2' 18' to 19'	0' to 2'	0.33' to 11' -- Sand 11' to 20' -- Clay	yes	10'	1'	no	no	- -
BH-21-2-00	21	31-May-00	25	0.58' to 3'	0' to 2.42'	0' to 0.58' -- Concrete 0.58' to 14.58' -- Sand 14.58' to 25' -- Clay	yes	9.5' is wet, fine grained and dilatent	5'	no	no	- -
SB-1-02	- -	25-Jun-02	40	- -	- -	0' to 0.5' -- Topsoil 0.5' to 32.5' -- Clay 32.5' to 33' -- Sand 33' to 35' -- Clay 35' to 37.5' -- Sand 37.5' to 39.5' -- Clay 39.5' to 40' -- Sand	yes	32.5' 35' 38.8' 39.5'	0.5' 2.5' 0.1' 0.5'	no	no	originally installed as MW1-02 then abandoned and re-named SB-1-02

TABLE 5.1

RFI BOREHOLE COMPLETION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft.bgs)*	*Chemical Sample Interval*	*Corrected Surface Chemical Sample Interval* [1]	*Borehole Stratigraphy* [2]	*Groundwater Present During Drilling*	*Depth of Groundwater Encountered*	*Saturated Thickness*	*Staining Present*	*PID results Yes/No/Depth*	*Notes and Comments*
SB-2-02	- -	25-Jun-02	39	- -	- -	0' to 0.1' -- Asphalt 0.1' to 0.4' -- Concrete 0.4' to 1.5' -- Sand (Fill) 1.5' to 4.5' -- Clay (Fill) 4.5' to 14' -- Clay 14' to 16.2' -- Silt 16.2' to 18.5' -- Clay 18.5' to 24.5' -- Silt 24.5' to 39' -- Sand	yes	23.5'	15.5'	no	no	originally installed as MW2-02 then abandoned and re-named SB-2-02
SB-3-02	- -	26-Jun-02	40	- -	- -	0' to 2' -- Topsoil 2' to 40' -- Clay	no	- -	- -	no	no	originally installed as MW3-02 then abandoned and re-named SB-3-02
MW-1-02	- -	28-Jun-02	15	- -	- -	0' to 1' -- Sand (Fill) 1' to 15' -- Clay	yes	8.1'	0.1'	no	no	originally installed as MW4-02 then re-named MW-1-02
MW-2-02	- -	28-Jun-02	15	- -	- -	0' to 0.3' -- Topsoil 0.3' to 0.9' -- Sand (Fill) 0.9' to 2' -- Silt 2' to 15' -- Clay	yes	11.1	0.25'	no	no	originally installed as MW5-02 then re-named MW-2-02
MW-3-02	- -	28-Jun-02	15	- -	- -	0' to 0.3' -- Topsoil 0.3' to 0.7' -- Sand (Fill) 0.7' to 15' -- Clay	yes	12.2	0.2'	no	no	originally installed as MW6-02 then re-named MW-3-02
MW-4-02	- -	3-Jul-02	15	- -	- -	0' to 0.4' -- Topsoil 0.4' to 2.2' -- Silt (Fill) 2.2' to 15' -- Clay	yes	11.7	0.25'	no	no	originally installed as MW7-02 then re-named MW-4-02

Notes:

(1) Corrected due to the presence of concrete, asphalt, coal, and/or topsoil.
(2) Topsoil not sampled due to high organic content.
NA Not Applicable.

TABLE 5.2

PERCHED WATER THICKNESS OBSERVED DURING HISTORICAL AND RFI DRILLING
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft. bgs)*	*Water Present*	*Depth to Water Encountered (ft. bgs)*	*Description*	*Saturated Thickness (ft.)*
GP-1	19	30-Aug-96	14	yes	11.5	saturated	unknown
GP-2	19	30-Aug-96	16	yes	12	saturated	2
GP-3	18	30-Aug-96	4	no	- -		- -
GP-4	18	30-Aug-96	4	no	- -		- -
GP-5	2	30-Aug-96	4	no	- -		- -
GP-6	13	30-Aug-96	14	no	- -		- -
GP-7	Off-Site	30-Aug-96	12	yes	10	saturated	2
MW-1	14	7-Nov-96	25	yes	12.0	cutting wet	unknown
MW-2	14	6-Nov-96	25	yes	14.0	water table	unknown
MW-3	18	7-Nov-96	25	yes	12.0	cutting wet	unknown
MW-4	15	7-Nov-96	25	yes	8.0	water table	unknown
MW-5	20/22	5-Nov-96	25	no	- -	no well installed	- -
MW-6	20/22	5-Nov-96	28	yes	20.0	water table	unknown
MW-7	20/22	5-Nov-96	25	no	- -	no well installed	- -
MW-8	20/22	5-Nov-96	30	yes	25.0	water table	unknown
MW-9	20/22	4-Nov-96	35	yes	13.0	wet	unknown
MW-10	15	4-Nov-96	20	yes	6.5	wet	unknown
MW-13	2	6-Nov-96	25	yes	23.0	water table	unknown
MW-14	1	7-Nov-96	25	yes	6.5	water table	unknown
PFW-1	- -	13-Mar-97	86.3	yes	8.5	wet sand parting	fracture
					9.1	wet sand parting	fracture
					24.9	wet	0.6
					78.0	wet	6.8
PFW-2	14	14-Mar-97	14	yes	7.4	wet	6.1
PFW-3	8	17-Mar-97	20	no	- -		- -
PFW-4	18	17-Mar-97	17	yes	7.3	wet	0.3
					8.4	wet	1.3
					12.7	wet	0.3
					15.0	wet	0.4
PFW-5	15	18-Mar-97	14	yes	9.9	wet	0.3
PFW-6	1	18-Mar-97	15	yes	1.0	wet	0.5
PFB-7	8	18-Mar-97	24	no	- -		- -
PFW-8	20	19-Mar-97	18	no	- -		- -
PFW-9	14	19-Mar-97	20	yes	5.0	multiple wet sand partings	4.2
PFW-10	7	20-Mar-97	20	yes	13.8	wet sand parting	fracture
PFW-11	3	20-Mar-97	12	yes	9.2	wet	1.6
PFW-12	9	21-Mar-97	20	yes	17.8	wet	1.6
PFB-13	7	24-Mar-97	10	no	- -		- -
PFB-14	7	25-Mar-97	10	no	- -		- -
PFB-15	8	24-Mar-97	14	no	- -		- -
PFB-16	9	25-Mar-97	10	no	- -		- -
PFB-17	9	26-Mar-97	10	no	- -		- -
PFB-18	9	26-Mar-97	10	no	- -		- -
PFB-19	9	26-Mar-97	10	no	- -		- -
PFB-20	9	26-Mar-97	10	no	- -		- -
PFB-21	21	24-Apr-97	9.5	yes	6.6	wet	2.9
PFB-22	21	24-Apr-97	8	no	- -		- -
PFB-23	11	24-Apr-97	8	no	- -		- -
PFB-24	11	24-Apr-97	8	no	- -		- -
PFB-25	1	24-Apr-97	12	no	- -		- -
PFB-26	1	25-Apr-97	12	no	- -		- -
PFB-27	1	25-Apr-97	5	no	- -		- -
BK-1-00	Background	24-May-00	30	yes	25 to 26.5		1.5
BK-2-00	Background	24-May-00	30	no	- -		- -
BK-3-00	Background	25-May-00	30	no	- -		- -
BK-4-00	Background	25-May-00	30	no	- -		- -
BH-2-1-00	2	26-May-00	25	no	- -		- -
BH-2-1A-00	2	26-May-00	12	no	- -		- -
BH-2-2-00	2	26-May-00	25	yes	18		2
BH-2-3-00	2	26-May-00	15	no	- -		- -

TABLE 5.2

PERCHED WATER THICKNESS OBSERVED DURING HISTORICAL AND RFI DRILLING
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft. bgs)*	*Water Present*	*Depth to Water Encountered (ft. bgs)*	*Description*	*Saturated Thickness (ft.)*
BH-2-1-02	2	27-Jun-02	6	no	- -		- -
BH-2-2-02	2	27-Jun-02	6	no	- -		- -
BH-2-3-02	2	27-Jun-02	6	no	- -		- -
BH-2-4-02	2	27-Jun-02	6	yes	3.5	wet	2.5
BH-2-5-02	2	27-Jun-02	6	no	- -		- -
BH-2-6-02	2	27-Jun-02	6	no	- -		
BH-2-7-02	2	27-Jun-02	6	yes	3.5	wet	2.5
BH-2-8-02	2	27-Jun-02	6	yes	3	wet	3
BH-3-1-00	3	14-Aug-00	10	yes	6		2.5
BH-3-2-00	3	14-Aug-00	12	yes	6		4
BH-3-3-00	3	14-Aug-00	10	yes	6		3
BH-3-4-00	3	14-Aug-00	10	yes	5		3.5
BH-3-5-00	3	14-Aug-00	10	yes	5		4
BH-3-6-00	3	14-Aug-00	10	yes	6		3
BH-3-7-00	3	14-Aug-00	10	yes	6		3
BH-3-8-00	3	14-Aug-00	10	yes	6		3
BH-8-1-00	8	2-Jun-00	12	no	- -		- -
BH-8-1A-00	8	2-Jun-00	15	no	- -		- -
BH-8-2-00	8	5-Jun-00	10	no	- -		- -
BH-8-3-00	8	2-Jun-00	12	no	- -		- -
BH-8-3A-00	8	2-Jun-00	15	no	- -		- -
BH-8-4-00	8	6-Jun-00	12	no	- -		- -
BH-8-5-00	8	2-Jun-00	10	no	- -		- -
BH-9-1A-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-1B-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-1C-00	9	12-Jun-00	15	no	- -		- -
BH-9-1D-00	9	6-Jun-00	0.5 plus	no	- -		- -
BH-9-2-00	9	6-Jun-00	20	no	- -		- -
BH-9-3A-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-3B-00	9	6-Jun-00	2	no	- -		- -
BH-9-3C-00	9	6-Jun-00	20	no	- -		- -
BH-9-4-00	9	6-Jun-00	10	no	- -		- -
BH-9-5A-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-5B-00	9	6-Jun-00	1.5	no	- -		- -
BH-9-5C-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-5D-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-5E-00	9	7-Jun-00	6	no	- -		- -
BH-9-5F-00	9	8-Jul-00	13	no	- -		- -
BH-9-6-00	9	5-Jun-00	15	no	- -		- -
BH-9-7-00	9	5-Jun-00	10	no	- -		- -
BH-9-8-00	9	5-Jun-00	20	yes	10		1
BH-9-9-00	9	6-Jun-00	10	no	- -		- -
BH-9-10-00	9	5-Jun-00	15	no	- -		- -
BH-9-11-00	9	6-Jun-00	15	no	- -		- -
BH-9-12-00	9	6-Jun-00	20	no	- -		- -
BH-9-13-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-13A-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-13B-00	9	6-Jun-00	2.5	no	- -		- -
BH-9-13C-00	9	12-Jun-00	2.7	no	- -		- -
BH-9-13D-00	9	8-Jul-00	15	no	- -		- -
BH-9-14A-00	9	6-Jun-00	3	no	- -		- -
BH-9-14B-00	9	6-Jun-00	0.67	no	- -		- -
BH-9-14C-00	9	7-Jun-00	2.8	no	- -		- -
BH-9-14D-00	9	12-Jun-00	15	no	- -		- -
BH-9-15-00	9	7-Jun-00	15	no	- -		- -
BH-9-16A-00	9	5-Jun-00	0.67	no	- -		- -
BH-9-16B-00	9	12-Jun-00	10	no	- -		- -
BH-9-17-00	9	6-Jun-00	20	no	- -		- -
BH-9-18A-00	9	6-Jun-00	1.75	no	- -		- -
BH-9-18B-00	9	6-Jun-00	15	no	- -		- -

TABLE 5.2

PERCHED WATER THICKNESS OBSERVED DURING HISTORICAL AND RFI DRILLING
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft. bgs)*	*Water Present*	*Depth to Water Encountered (ft. bgs)*	*Description*	*Saturated Thickness (ft.)*
BH-9-19A-00	9	6-Jun-00	15	no	- -		- -
BH-9-19B-00	9	12-Jun-00	25	no	- -		- -
BH-9-20A-00	9	7-Jun-00	0.83	no	- -		- -
BH-9-20B-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-20C-00	9	7-Jun-00	0.42	no	- -		- -
BH-9-20D-00	9	7-Jun-00	25	no	- -		- -
BH-9-21A-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-21B-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-21C-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-21D-00	9	7-Jun-00	1.5	no	- -		- -
BH-9-21E-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-21F-00	9	8-Jul-00	12	no	- -		- -
BH-9-22A-00	9	7-Jun-00	1.5	no	- -		- -
BH-9-22B-00	9	7-Jun-00	2.5	no	- -		- -
BH-9-22C-00	9	12-Jun-00	10	no	- -		- -
BH-9-23-00	9	5-Jun-00	10	no	- -		- -
BH-9-24-00	9	2-Jun-00	15	no	- -		- -
BH-9-25-00	9	6-Jun-00	6.25	yes	0.58		1
BH-9-26-00	9	5-Jun-00	4	no	- -		- -
BH-9-26A-00	9	5-Jun-00	10	no	- -		- -
BH-9-27-00	9	5-Jun-00	12	yes	5		0.5
BH-9-28-00	9	5-Jun-00	12	no	- -		- -
BH-9-29-00	9	5-Jun-00	12	no	- -		- -
BH-9-30-00	9	5-Jun-00	12	no	- -		- -
BH-1A-01	9	7-May-01	8.7	no	- -		- -
BH-1B-01	9	7-May-01	8.7	no	- -		- -
BH-1E-01	9	7-May-01	8.7	no	- -		- -
BH-2C-01	9	7-May-01	8.7	no	- -		- -
BH-3A-01	9	7-May-01	8.8	no	- -		- -
BH-3F-01	9	4-May-01	8.8	no	- -		- -
BH-4D-01	9	4-May-01	8.7	no	- -		- -
BH-5C-01	9	2-May-01	9.3	no	- -		- -
BH-6B-01	9	4-May-01	8.5	no	- -		- -
BH-6D-01	9	2-May-01	9	no	- -		- -
BH-6E-01	9	2-May-01	9.3	no	- -		- -
BH-7A-01	9	4-May-01	13.5	yes	7 to 9 below basement	wet	2
BH-7B-01	9	4-May-01	8.5	no	- -		- -
BH-7C-01	9	4-May-01	8.7	no	- -		- -
BH-8E-01	9	3-May-01	8.8	no	- -		- -
BH-8F-01	9	3-May-01	8.8	no	- -		- -
BH-9F-01	9	3-May-01	8.4	yes	0.7 to 4.4 below basement	wet	3.7
BH-10A-01	9	4-May-01	8.5	yes	0.5 to 3 below basement	wet	2.5
BH-10B-01	9	4-May-01	8.6	yes	0.6 to 1.6 below basement	wet	1
BH-10C-01	9	4-May-01	8.7	no	- -		- -
BH-10D-01	9	3-May-01	8.6	yes	0.6 to 1.3 below basement	wet	0.7
BH-25A-01	9	3-May-01	8.7	yes	0.7 to 2.2 below basement	very moist to wet	1.5
BH-25B-01	9	3-May-01	8.7	yes	0.7 to 1.7 below basement	wet	1
BH-25C-01	9	3-May-01	8.7	yes	0.7 to 4.2 below basement	wet	3.5
BH-25D-01	9	3-May-01	8.7	yes	0.7 to 3.9 below basement	wet	3.2
BH-26A-01	9	3-May-01	8.8	yes	0.8 to 4.8 below basement	saturated	4
BH-26C-01	9	3-May-01	8	yes	0.7 to 4.0 below basement	saturated	3.3
BH-26D-01	9	3-May-01	8.8	yes	1.2 to 8.8 below basement	saturated	7.6
BH-9-1-02	9	26-Jun-02	6	no	- -		- -
BH-9-2-02	9	26-Jun-02	6	yes	2	wet	4
BH-9-3-02	9	26-Jun-02	6	no	- -		- -
BH-9-4-02	9	26-Jun-02	6	yes	3	wet	3
BH-9-5-02	9	26-Jun-02	6	yes	2.5	wet	1.3
BH-9-6-02	9	26-Jun-02	6	no	- -		- -
BH-9-7-02	9	26-Jun-02	6	no	- -		- -
BH-9-8-02	9	26-Jun-02	6	yes	0.5	saturated gravel	1.5
BH-9-9-02	9	26-Jun-02	6	no	- -		- -

TABLE 5.2

PERCHED WATER THICKNESS OBSERVED DURING HISTORICAL AND RFI DRILLING
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Location	*AOI*	*Date of Completion*	*Total Depth (ft. bgs)*	*Water Present*	*Depth to Water Encountered (ft. bgs)*	*Description*	*Saturated Thickness (ft.)*
BH-9-10-02	9	26-Jun-02	6	yes	2.5	wet	3.5
BH-9-11-02	9	26-Jun-02	6	yes	5.5	wet	0.5
BH-9-12-02	9	26-Jun-02	6	no	- -		- -
BH-9-13-02	9	26-Jun-02	4.5	yes	3	wet	1.5
BH-9-14-02	9	26-Jun-02	6	yes	5.4	wet	0.6
BH-9-15-02	9	26-Jun-02	6	no	- -		
BH-9-16-02	9	26-Jun-02	6	yes	1.8	wet	4.2
BH-11-1-00	11	30-May-00	20	no	- -		- -
BH-11-2-00	11	30-May-00	15	no	- -		- -
BH-11-3-00	11	30-May-00	20	no	- -		- -
BH-11-4-00	11	30-May-00	25	yes	13.08		2
BH-11-5-00	11	30-May-00	10	no	- -		- -
BH-11-1-02	11	27-Jun-02	6	no	- -		- -
BH-11-2-02	11	27-Jun-02	6	no	- -		- -
BH-11-3-02	11	27-Jun-02	6	no	- -		- -
BH-11-4-02	11	27-Jun-02	6	no	- -		- -
BH-11-5-02	11	27-Jun-02	6	no	- -		- -
BH-11-6-02	11	27-Jun-02	6	no	- -		- -
BH-11-7-02	11	27-Jun-02	6	no	- -		- -
BH-11-8-02	11	27-Jun-02	6	no	- -		- -
BH-12-1-00	12	30-May-00	10	no	- -		- -
BH-12-2-00	12	30-May-00	10	yes	5		1
BH-13-1-00	13	30-May-00	15	no	- -		- -
BH-13-2-00	13	30-May-00	10	no	- -		- -
BH-14-1-00	14	31-May-00	10	no	- -		- -
BH-14-2-00	14	31-May-00	15	no	- -		- -
BH-17-1-00	17	31-May-00	20	yes	4.25 - 7.42	moist to very moist and dilatent	1.5
BH-17-2-00	17	31-May-00	25	yes	10.75	very moist to wet, fine grained and dilatent	5
BH-17-2A-00	17	31-May-00	5	no	- -		- -
BH-18-1-00	18	31-May-00	15	no	- -		- -
BH-18-2-00	18	1-Jun-00	30	yes	18	very moist to wet	2
					27.5	very moist to wet	2.5
BH-18-3-00	18	1-Jun-00	10	no	- -		- -
BH-18-4-00	18	1-Jun-00	10	no	- -		- -
BH-19-1-00	19	5-Jun-00	15	no	- -		- -
BH-19-2-00	19	2-Jun-00	10	no	- -		- -
BH-19-3-00	19	5-Jun-00	10	no	- -		- -
BH-19-4-00	19	5-Jun-00	25	yes	10	wet dilatent sand	2.4
BH-19-5-00	19	2-Jun-00	10	no	- -		- -
BH-19-6-00	19	5-Jun-00	10	no	- -		- -
BH-19-7-00	19	2-Jun-00	10	no	- -		- -
BH-19-8-00	19	2-Jun-00	15	no	- -		- -
BH-20-1-00	20	1-Jun-00	10	no	- -		- -
BH-20-2-00	20	1-Jun-00	10	no	- -		- -
BH-20-3-00	20	1-Jun-00	15	yes	5		0.83
BH-20-4-00	20	1-Jun-00	10	no	- -		- -
BH-21-1-00	21	31-May-00	20	yes	10		1
BH-21-2-00	21	31-May-00	25	yes	9.5	wet, fine grained, dilatent	5
SB-1-02	- -	25-Jun-02	40	yes	32.5	wet	0.5
					35	moist	2.5
					38.8	wet	0.1
					39.5	wet	0.5
SB-2-02	- -	25-Jun-02	30	yes	23.5	wet, dilatent	15.5
SB-3-02	- -	25-Jun-02	40	no	- -		- -
MW-1-02	- -	28-Jun-02	15	yes	8.1	slight increase in moisture 1" sand/silt lens	0.1
MW-2-02	- -	28-Jun-02	15	yes	11.1	slight increase in moisture 3" sand/silt lens	0.25
MW-3-02	- -	28-Jun-02	15	yes	12.2	moist to very moist	0.2
MW-4-02	- -	3-Jul-02	15	yes	11.7	moist to very moist	0.25

TABLE 5.3

PERCHED WATER AND GROUNDWATER ELEVATION SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY - GENESEE TOWNSHIP, MICHIGAN

Monitoring Well	*Ground Surface Elev. (1)*	*Top of Casing Elev. (1)*	*Ground Surface Elev. (2)*	*Top of Casing Elev. (2)*	*Ground Surface Elev. (3)*	*Top of Casing Elev. (3)*	*Ground Surface Elev. (4)*	*Top of Casing Elev. (4)*	*Reference Elevation*	*Static Water Mar-97*		*Static Water Apr-97*		*Static Water Oct-02*		*Static Water Apr-04*		*Well Status*
										Depth to Water	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*	*Depth to Water*	*Water Elevation*	
Wells Installed by Peregrine																		
MW-1	100	NA	--	--	--	--	806.26	806.10	806.10	2.93	803.2	3.72	802.4	NM	NM	22	784.1	Existing.
MW-2	100	NA	--	--	--	--	807.22	806.90	806.90	13.1	793.8	4.87	802.0	NM	NM	22	784.9	Existing.
MW-3	100	NA	--	--	--	--	807.61	807.69	807.69	2.61	805.1	2.43	805.3	6.91	800.8	NM	NM	Abandoned.
MW-4	100	NA	808.5	NA	--	--	--	--	808.5	5.25	803.3	4.13	804.4	NM	NM	NM	NM	Abandoned.
MW-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No well installed.
MW-6	100	NA	807.0	NA	--	--	--	--	807.0	19.43	787.6	18.91	788.1	NM	NM	9.5	797.5	Abandoned.
MW-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No well installed.
MW-8	100	NA	807.8	NA	--	--	--	--	807.8	26.18	781.6	26.53	781.3	NM	NM	NM	NM	Abandoned.
MW-9	100	NA	809.2	NA	--	--	--	--	809.2	23.61	785.6	24.27	784.9	NM	NM	20	789.2	Abandoned.
MW-10	100	NA	807.9	NA	--	--	--	--	807.9	3.65	804.3	5.96	801.9	NM	NM	5	802.9	Abandoned.
MW-11	100	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Off-site, abandoned.
MW-12	100	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Off-site, abandoned.
MW-13	100	NA	808.0	NA	--	--	--	--	808.0	NM	NM	NM	NM	NM	NM	NM	NM	Abandoned.
MW-14	100	NA	--	--	--	--	809.95	812.89	812.89	18.58	794.3	10.44	802.5	NM	NM	NM	NM	Excavated.
PFW-1	99.6	101.44	--	--	807.92	809.68	807.83	809.78	809.78	80.58	729.2	80.07	729.7	NM	NM	85.8	724.0	Existing.
PFW-2	98.5	101.01	--	--	--	--	806.68	809.43	809.43	6.74	802.7	8.7	800.7	NM	NM	4.4	805.0	Existing.
PFW-3	100.3	99.79	809.5	809.0	--	--	--	--	809.0	dry	--	dry	--	NM	NM	NM	NM	Abandoned.
PFW-4	99.8	99.33	--	--	--	--	808.17	807.72	807.72	5.52	802.2	5.06	802.7	NM	NM	6.4	801.3	Existing.
PFW-5	98.9	101.29	808.5	810.9	--	--	--	--	810.9	5.77	805.1	6.08	804.8	NM	NM	9.8	801.1	Abandoned.
PFW-6	98.6	98.29	807.5	807.2	--	--	--	--	807.2	1.05	806.1	2.02	805.2	NM	NM	NM	NM	Excavated.
PFB-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No well installed.
PFW-8	101.1	100.79	807.8	807.5	--	--	--	--	807.5	dry	--	dry	--	NM	NM	11.25	796.3	Abandoned.
PFW-9	98.8	101.05	--	--	--	--	807.18	809.56	809.56	8.53	801.0	9.4	800.2	10.21	799.4	6.2	803.4	Existing.
PFW-10	100.5	100.09	--	--	--	--	808.85	808.48	808.48	11.67	796.8	11.73	796.8	5.05	803.4	5	803.5	Existing.
PFW-11	101.3	100.98	--	--	--	--	809.63	809.40	809.40	1.57	807.8	2.07	807.3	NM	NM	1.8	807.6	Existing.
PFW-12	101.7	101.28	810.0	809.6	--	--	--	--	809.6	15.21	794.4	15.07	794.5	NM	NM	8.2	801.4	Existing.
Wells Installed by REALM																		
DSA_MW-1	--	--	--	--	NA	814.30	--	--	814.30	--	--	--	--	8.43	805.9	NM	NM	Excavated.
MW-1-02	--	--	--	--	808.00	810.90	808.16	810.99	810.99	--	--	--	--	14.95	796.0	NM	NM	Existing.
MW-2-02	--	--	--	--	807.94	810.99	808.13	811.085	811.09	--	--	--	--	11.34	799.7	NM	NM	Existing.
MW-3-02	--	--	--	--	808.05	810.84	808.06	811.02	811.02	--	--	--	--	12.25	798.8	NM	NM	Existing.
MW-4-02	--	--	--	--	807.91	810.63	807.93	810.77	810.77	--	--	--	--	13.18	797.6	NM	NM	Existing.

Notes:

NA - Not available.
NM - Not measured.
(1) - Based on historical monitoring well logs; referenced to site datum of 100 feet.
(2) - Estimated based on ground surface topography surveyed in June 2000.
(3) - Surveyed in July 2002.
(4) - Surveyed March 25, 2004.

TABLE 5.4

SUMMARY OF GROUNDWATER FLOW CONDITIONS AT FORMER LANDFILL
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

	Permeability		*Velocity*	
Geologic Unit	*Horizontal (cm/sec)*	*Vertical (cm/sec)*	*Horizontal (ft/year)*	*Vertical (ft/year)*
Perched Zone	1.3E-07 to 4.4E-04	2.1E-08 to 3.6E-07	0.017 to 57	0.027 to 0.47
Upper Confining Unit	4.9E-07 to 6.7E-05	1.5E-08 to 2.2E-08	0.063 to 8.7	0.019 to 0.028
Drift Aquifer	1.2E-04 to 9.2E-04	--	16 to 120	--
Lower Confining Unit	1.1E-06 to 1.8E-05	3.9E-09	0.14 to 2.3	0.005
Bedrock	1.2E-04	--	--	--

Notes:

Data in this table compiled from the following sources:

1. Dames and Moore, 1980. "Hydrogeological Investigation", prepared for Fisher Body Division, General Motors Corporation, Flint, Michigan.
2. Chester Engineers, 1986. "Final Report on Groundwater Quality Assessment Program", prepared for Fisher Guide Division, General Motors Corporation, Flint, Michigan.

TABLE 5.5

HYDRAULIC CONDUCTIVITY DETERMINED BY HAZEN EQUATION
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Well Location	*D_{10} of Soil (mm)* [1]	*Sample Depth (ft. bgs)*	*Hydraulic Conductivity, K (cm/s)* [2]
Silty Sand Unit			
BK-1-00	0.0011	3.0	1.21E-06
BK-2-00	0.00045	4.0	2.02E-07
		Geometric Mean	4.9E-07
Clay Till Unit			
BK-1-00	0.00015	7.0	2.25E-08
BK-2-00	0.0007	10.0	4.9E-07
BK-3-00	0.0007	5.0	4.9E-07
BK-3-00	0.00012	11.0	1.44E-08
BK-4-00	0.00042	5.0	1.76E-07
BK-4-00	0.00011	10.0	1.21E-08
		Geometric Mean	7.41E-08

Notes:

(1) D_{10} grain size was found from extrapolating hydrometer analysis results.

(2) Calculated using the equation $K=CD_{10}^2$, where C = 1.0.

TABLE 5.6

HYDRAULIC CONDUCTIVITY MEASURED USING BAIL TESTS
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Monitoring Location	*Screen Depth (ft BGS)*	*Hydraulic Conductivity, K (cm/sec)*	*Stratigraphic Description*
MW-1-02	10 to 15	4.9E-07	Silty Clay
MW-2-02	10 to 15	2.4E-08	Silty Clay
MW-3-02	10 to 15	1.6E-08	Silty Clay
MW-4-02	10 to 15	2.2E-07	Silty Clay
MW-3	15 to 25	3.6E-06	Silty Clay
DSA_MW-1	9.7 to 14.7	7.8E-08	Clay with Sand Seam
PFW-9	6.7 to 9.2	1.6E-06	Sandy Clay with Sand Seams
PFW-10	14.2 to 16.7	3.4E-07	Sandy Clay with Sand Seams
	Geometric Mean	2.2E-07	

TABLE 5.7

BAIL TEST RECOVERY PERCENTAGES
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESSEE TOWNSHIP, MICHIGAN

Well ID	*Well Depth (ft BTOR)*	*Static Water Level (ft BTOR)*	*Final Water Level (ft BTOR)*	*Total Elapsed Time*		*Percent Recovery Achieved*
				(min)	*(hours)*	
MW-1-02	17.30	14.95	16.44	2120.0	35.3	36.6%
MW-2-02	17.30	11.34	15.81	1875.1	31.3	25.0%
MW-3-02	17.30	12.25	16.30	2055.6	34.3	19.8%
MW-4-02	17.42	13.18	15.54	2005.7	33.4	44.3%
MW-3	13.17	6.91	7.54	1042.8	17.4	89.9%
			7.59	1779.7	29.7	89.1%
DSA_MW-1	17.30	8.43	15.15	1440.2	24.0	24.2%
PFW-9	11.27	10.21	10.44	988.7	16.5	78.3%
			10.39	1709.8	28.5	83.0%
PFW-10	16.07	5.05	10.30	1811.6	30.2	52.4%

TABLE 5.8

HYDRAULIC CONDUCTIVITY MEASURED USING CONSTANT HEAD METHOD
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Well Location	*Depth (feet bgs)*	*Hydraulic Conductivity (cm/s)*
Clay Till Unit		
BK-1-00	5 - 7	8.1E-08
BK-2-00	10 - 12	2.9E-08
BK-3-00	5 - 7	5.5E-09
BK-4-00	5 - 7	6.2E-09
	Geometric Mean	1.68E-08

Note:

(1) - Hydraulic conductivity measured using Constant Head Method.
- Samples were tested in a remolded state due to Shelby tube disturbance caused by the presence of cobbles or very dense clay. Dense hard pan clays may have a lower in-situ hydraulic conductivity than the remolded values present. The values presented should be evaluated with an understanding of the fact that they were remolded samples.

TABLE 5.9

HYDRAULIC CONDUCTIVITY FROM CONSTANT RATE PUMPING TEST
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESSEE TOWNSHIP, MICHIGAN

Well	*Data Set*	*Transmissivity*	*Saturated Thickness*		*Hydraulic Conductivity*
		(cm^2/sec)	*(feet)*	*(centimeters)*	*(cm/sec)*
PFW-1	Drawdown	10.61	14	426.72	3.0×10^{-2}
PFW-1	Recovery	10.32	14	426.72	2.4×10^{-2}
				Geometric Mean	2.7×10^{-2}

TABLE 5.10

CONSTANT RATE PUMPING TEST SUMMARY
FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY
GENESSEE TOWNSHIP, MICHIGAN

Wells	*Distance to PFW-1 (feet)*	*Static Water Level (ft amsl)*	*Water Level at End of Test (ft amsl)*	*Change in Water Level (ft amsl)*	*Comments*
Drift Aquifer Wells					
PFW-1	0	727.63	727.11	0.52	Response to pumping
B-22D	2228	731.79	731.86	-0.07	Barometric Pressure Response - no response to pumping
B-23D	2082	733.87	733.95	-0.08	Barometric Pressure Response - no response to pumping
Perched Zone Wells					
MW-1-02	56	796.17	796.13	0.04	Decline due to lack of recharge - no response to pumping
MW-2-02	40	799.97	799.95	0.02	Decline due to lack of recharge - no response to pumping
MW-3-02	42	798.72	798.67	0.05	Decline due to lack of recharge - no response to pumping
MW-4-02	11	797.88	797.82	0.06	Decline due to lack of recharge - no response to pumping
MW-1	1842	802.79	802.83	-0.04	Possible Barometric Pressure Response - no response to pumping
MW-3	1272	803.53	803.57	-0.04	Possible Barometric Pressure Response - no response to pumping
DSA_MW-1	2052	800.98	800.99	-0.01	Possible Barometric Pressure Response - no response to pumping
PFW-2	1881	798.8	798.83	-0.03	Possible Barometric Pressure Response - no response to pumping
PFW-9	1574	800.88	800.85	0.03	Decline due to lack of recharge - no response to pumping
PFW-10	890	804.97	805.53	-0.56	Unknown Rise in Water Level - no response to pumping
PFW-11	814	808.56	808.47	0.09	Barometric Pressure Response - no response to pumping
B-14	2112	791.91	791.81	0.1	Decline due to lack of recharge - no response to pumping

TABLE 5.11

BACKGROUND INORGANICS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*Background*	*Background*	*Background*	*Background*
Sample Location:									*BK-1-00*	*BK-1-00*	*BK-2-00*	*BK-2-00*
Sample ID:									*S-12636-052400-DRD-003*	*S-12636-052400-DRD-004*	*S-12636-052400-KMV-001*	*S-12636-052400-KMV-002*
Sample Date:									*5/24/2000*	*5/24/2000*	*5/24/2000*	*5/24/2000*
Sample Depth:									*(3) ft*	*(7) ft*	*(4) ft*	*(10) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	15100	9370	10400	9160
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	9.9	8	8.8	7.9
Barium	mg/kg	75	118	130000	150000	-	1300	-	89.6	93.2	76.7	54.6
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.61	0.5	0.5	0.41
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.15	0.13	0.15
Calcium	mg/kg	-	88000	-	-	-	-	-	30800	56800	46000	60400
Chromium	mg/kg	18	19	9200	240	-	30	-	15.7	13.7	14.6	12.3
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.6	8.6	7.3	7.2
Copper	mg/kg	32	32	73000	59000	-	5800	-	14.3	13.5	13.7	12.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	27900	20800	21100	19200
Lead	mg/kg	21	21	900	44000	-	700	-	9.6	8.1	9.7	10.3
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	15000	23900	20100	22800
Manganese	mg/kg	440	513	90000	1500	-	1	-	457	396	378	302
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.014 J	0.011 J	0.029 J	0.0095 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	22.5	20.6	18.7	16.5
Potassium	mg/kg	-	2300	-	-	-	-	-	1720 J	1740 J	1750 J	1610 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.31 J	0.25 J	0.35 J	0.23 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.082 J	0.074 J	0.12 J	0.056 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	564 U	567 U	564 U	578 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.16	0.17	0.19	0.16
Vanadium	mg/kg	-	39	5500	-	-	990	-	38.8 J	26.5 J	28.6 J	25.7 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	54.1	50.3	51.9	46.3
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	88.6	88.3	88.7	86.5

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.11

BACKGROUND INORGANICS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*Background*	*Background*	*Background*	*Background*
Sample Location:									*BK-3-00*	*BK-3-00*	*BK-4-00*	*BK-4-00*
Sample ID:									*S-12636-052500-DRD-005*	*S-12636-052500-DRD-006*	*S-12636-052500-DRD-007*	*S-12636-052500-DRD-008*
Sample Date:									*5/25/2000*	*5/25/2000*	*5/25/2000*	*5/25/2000*
Sample Depth:									*(5) ft*	*(11) ft*	*(5) ft*	*(10) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	8400	9730	9950	8270
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.4	5.5	11	6.4
Barium	mg/kg	75	118	130000	150000	-	1300	-	54.8	56	66	51.2
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.5	0.44	0.56	0.36
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.17	0.17	0.13
Calcium	mg/kg	-	88000	-	-	-	-	-	58500	60500	47200	66600
Chromium	mg/kg	18	19	9200	240	-	30	-	14.1	13.3	16.4	11.4
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	8.2	8.4	7.3	7.5
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.3	11.7	15.2	10.7
Iron	mg/kg	12000	27900	580000	-	-	6	-	19800	20100	21600	18900
Lead	mg/kg	21	21	900	44000	-	700	-	7.5	7.8	9	6.6
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	21900	25100	20100	29500
Manganese	mg/kg	440	513	90000	1500	-	1	-	350	383	389	397
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.01 J	0.011 J	0.012 J	0.013 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	20.5	19.2	20.3	16
Potassium	mg/kg	-	2300	-	-	-	-	-	1350 J	2090 J	1800 J	1780 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.25 J	0.32 J	0.35 J	0.32 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.063 J	0.091 J	0.12 J	0.072 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	580	202 J	198 J	544 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.18	0.18	0.17	0.17
Vanadium	mg/kg	-	39	5500	-	-	990	-	25 J	27.9 J	27.3 J	24.1 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	46.4	42.9	58.6	35.5
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	90.8	88.5	90.6	91.9

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.12

AOI 2 FORMER WASTE PILE PAD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***					
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0046 U	-	-	0.0048 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0031 J	-	-	0.0048 U	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0012 J	-	-	0.0048 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0046 U	-	-	0.0048 U	-
Semi-volatile Organic Compounds													
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.37 U	-	-	0.37 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.37 U	-	-	0.37 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.09 J	-	-	0.37 U	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.085 J	-	-	0.37 U	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.12 J	-	-	0.37 U	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.063 J	-	-	0.37 U	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.041 J	-	-	0.37 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.074 J	-	-	0.37 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.18 J	-	-	0.37 U	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.37 U	-	-	0.37 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.37 U	-	-	0.37 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.12 J	-	-	0.37 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.16 J	-	-	0.37 U	-
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7540	-	-	9060	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.9	5.22 J	5.51 J	61[BE]	6.83 J
Barium	mg/kg	75	118	130000	150000	-	1300	-	59.4	-	-	118	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.38	-	-	0.53	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.15	-	-	1.1	-
Calcium	mg/kg	-	88000	-	-	-	-	-	53200	-	-	56900	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	11.6	-	-	26	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	6.7	-	-	8.5	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.3	-	-	199	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	21000	-	-	22100	-
Lead	mg/kg	21	21	900	44000	-	700	-	10	-	-	26.5	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	18000	-	-	20500	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	511	-	-	757[E]	-

TABLE 5.12

AOI 2 FORMER WASTE PILE PAD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***					
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*					
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.016 J	-	-	0.02 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	19.6	-	-	**263**[e]	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1490 J	-	-	1770 J	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.3 J	-	-	0.71	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.074 J	-	-	0.43 J	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	321 J	-	-	564 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.17	-	-	0.47	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	24 J	-	-	28.2 J	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	120	-	-	3950	-
General Chemistry													
Percent moisture	%	-	-	-	-	-	-	-	-	15.5	25.4	-	16.9
Total solids	%	-	-	-	-	-	-	-	89.6	-	-	88.7	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.12

AOI 2 FORMER WASTE PILE PAD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*MW-13*	*GP-5*
Sample ID:									*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*MW-13 (4-6)*	*GP-5*
Sample Date:									*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*11/6/1996*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(4-6) ft*	*(0-4) ft*
												Duplicate		
Parameters:	*Units*	*Statewide*	*Background*	*IDCC*	*PSIC*	*SVIAIC*	*IDWPC*	*ISSIC*						
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*						
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	-	0.0043 U	0.0047 U	0.0104	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	-	0.0043 U	0.0047 U	0.0338	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	-	0.0011 J	0.0047 U	U	0.01 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	0.0043 U	0.0047 U	0.0667	0.017
Semi-volatile Organic Compounds														
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	-	-	0.068 J	0.39 U	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	-	-	0.19 J	0.05 J	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	0.34 J	0.098 J	-	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	-	-	0.27 J	0.09 J	-	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	-	-	0.31 J	0.11 J	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	-	-	0.12 J	0.39 U	-	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	-	-	0.12 J	0.39 U	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	0.26 J	0.08 J	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	0.71	0.22 J	-	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	-	-	0.07 J	0.39 U	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	-	-	0.14 J	0.39 U	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	0.55	0.13 J	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	0.58	0.21 J	-	-
Metals														
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	7080	7390	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	5.23 J	5.51 J	8	6.5	-	3.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	49.1	55	-	64
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	0.38	0.41	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	-	0.2	0.22	-	0.12
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	31900	38000	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	-	-	11.8	17	-	14
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	6.6	6.4	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	10.5	21.4	-	16
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	16100	17800	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	-	8.8	11.9	-	10
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	10400	13100	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	474	442	-	-

TABLE 5.12

AOI 2 FORMER WASTE PILE PAD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*MW-13*	*GP-5*
Sample ID:									*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*MW-13 (4-6)*	*GP-5*
Sample Date:									*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*11/6/1996*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft* Duplicate	*(4-6) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***Background*** [A]	***IDCC*** [B]	***PSIC*** [C]	***SVIAIC*** [D]	***IDWPC*** [E]	***ISSIC*** [F]						
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	-	0.047 J	0.022 J	-	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	16.3	20.8	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	1080 J	1190 J	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	-	0.22 J	0.22 J	-	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	0.052 J	0.076 J	-	0.5 U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	272 J	589 U	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	0.12	0.12	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	20.9 J	22.7 J	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	55.5	155	-	49
General Chemistry														
Percent moisture	%	-	-	-	-	-	-	-	17.7	11.6	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	85.3	84.9	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.13

AOI 8 FORMER SCRAP METAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*	*BH-8-3A-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*	*S-12636-060200-DRD-051*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*	*(0.66-2.66) ft*
												Duplicate	
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0065	0.0044 U	0.0046 U	0.0048 UJ	0.0055 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.021 U	0.0015 J	0.0028 J	0.0053 J	0.022 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0026 U	0.0022 U	0.0023 U	0.0018 J	0.0027 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ	0.0055 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0053 U	0.0044 U	0.00027 J	0.002 J	0.0055 U
Semi-volatile Organic Compounds													
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.04 J	0.38 U	0.96 U	0.99 U	0.36 U
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	3790	7990	5880	6190	2390
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.2	5.9	7.8	6.1	4.6
Barium	mg/kg	75	118	130000	150000	-	1300	-	19 J	48.3 J	48.9	47.1	14.8 J
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.23 J	0.61	0.32 J	0.37 J	0.22 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.068 J	0.11 J	0.11 J	0.23 J	0.11 J
Calcium	mg/kg	-	88000	-	-	-	-	-	25500	72400	31100 J	29100 J	33300
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	9.9	16.2	11.5	12.8	7
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	1.754	1.784	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	3.3 J	8.9	6	6.7	3.5
Copper	mg/kg	32	32	73000	59000	-	5800	-	6.6	13.9	12.8	23	8.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	8870	16500	13800	14600	7670
Lead	mg/kg	21	21	900	44000	-	700	-	5.7	10.3	7.2	14.1	6.6
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	6490	28500	13700	13200	10500
Manganese	mg/kg	440	513	90000	1500	-	1	-	181	337	238	258	186
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.035 UJ	0.0077 J	0.035 J	0.073	0.0047 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	10 J	22.8 J	14.3	17.1	8.7 J
Potassium	mg/kg	-	2300	-	-	-	-	-	699 J	1710 J	1230	1260	382 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.15 J	0.33 J	0.32 J	0.18 J	0.11 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.65	0.073 J	0.052 J	0.061 J	0.022 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	532 U	575 U	485 J	535 J	548 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.057 J	0.19 J	0.14 J	0.15 J	0.067 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	11.3	22	19.2	20.3	9.4
Zinc	mg/kg	47	70	630000	-	-	5000	-	25.1	49.2	45.8	108	33.1

TABLE 5.13

AOI 8 FORMER SCRAP METAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*	*BH-8-3A-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*	*S-12636-060200-DRD-051*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*	*(0.66-2.66) ft*
												Duplicate	
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Polychlorinated Biphenyls													
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.03 J	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.12	0.036 U
Petroleum Products													
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	94.0	87.0	86.1	83.6	91.3

Notes:

B - For organics Method blank contamination / For Inorganics = Estimated Value
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.13

AOI 8 FORMER SCRAP METAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:									*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:									*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:									*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***							
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.022 U	0.019 U	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0027 U	0.0024 U	-	-	0.01 U	0.01 U	0.01 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.00083 J	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Semi-volatile Organic Compounds															
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	-	0.38 U	-	-	-	-	-
Metals															
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	2450	9470	-	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	2.5 J	13.2	5.15	5.28	32[e]	9	10
Barium	mg/kg	75	118	130000	150000	-	1300	-	12.9	65 J	47.3	35.6	72	75	61
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.12 J	0.64	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.53 U B	0.22 J	U	U	0.62	0.82	0.64
Calcium	mg/kg	-	88000	-	-	-	-	-	1580 J	43000	-	-	-	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	17.3	27.7	10.8	9.3	14	20	17
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	2.142	0.7 U	-	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	1.7	9.9	-	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	27.2	19.3	U	U	11	15	18
Iron	mg/kg	12000	27900	580000	-	-	6	-	14900	20300	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	7.7	11.5	5.48	4.5	15	18	13
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	742	15600	-	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	203	230	-	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.035 U	0.014 J	U	U	0.1 U	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	10	37.1 J	-	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	321 U	1050 J	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.12 J	0.1 J	U	U	0.5 U	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.07 J	0.081 J	U	U	0.5	2.8	0.5 U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	535 U	204 J	-	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.53 U	0.23 J	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	7.8	23.5	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	8.1	69.6	U	U	37	43	150

TABLE 5.13

AOI 8 FORMER SCRAP METAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:									*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:									*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:									*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***							
Polychlorinated Biphenyls															
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	-	0.038 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	0.038 U	-	-	-	-	-
Petroleum Products															
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	471	945	-	-	-
General Chemistry															
Total solids	%	-	-	-	-	-	-	-	93.5	87.3	-	-	87.70	87.24	88.15

Notes:

B - For organics Method blank contamination / For Inorganics = Estimated Value
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*
Sample Depth:									*(6) ft below basement*	*(6) ft below basement*	*(0-2) ft*	*(0.5-2.5) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.006 U	0.0059 UJ	0.0046 UJ	0.00041 J
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.024 U	0.024 UJ	0.018 UJ	0.02 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.024 U	0.024 UJ	0.018 UJ	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.024 U	0.024 UJ	0.018 UJ	0.02 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.024 U	0.024 UJ	0.018 UJ	0.02 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.003 U	0.0032 J	0.0023 UJ	0.0026 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.006 U	0.00088 J	0.0046 UJ	0.00034 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.006 U	0.0032 J	0.0046 UJ	0.0051 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.012 U	0.012 UJ	0.0091 UJ	0.01 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	11100	10700	5060	3980
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.239 UJ	0.233 UJ	0.0388 J	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.76 J	6.06 J	4.52	6.6
Barium	mg/kg	75	118	130000	150000	-	1300	-	62.7	59.3	30.1	22.5
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.338	0.572	0.291	0.2 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.416	0.133	0.133	0.13 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*
Sample Depth:									*(6) ft below basement*	*(6) ft below basement*	*(0-2) ft*	*(0.5-2.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Calcium	mg/kg	-	88000	-	-	-	-	-	50200	50000	38800	28800 J
Chromium	mg/kg	18	19	9200	240	-	30	-	96.4[e]	38.3[e]	11.9 J	7.2
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	-	7.2
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	4.83 J	7.54 J	4.32	4.6
Copper	mg/kg	32	32	73000	59000	-	5800	-	12.4 J	11.8 J	9.33 J	8.7
Iron	mg/kg	12000	27900	580000	-	-	6	-	18000	17800	10300	12400
Lead	mg/kg	21	21	900	44000	-	700	-	13.8 J	10.2 J	7.96	6.3
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	21000 J	22300 J	13500	8270
Manganese	mg/kg	440	513	90000	1500	-	1	-	376	330	231 J	346
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0113 J	0.0145 J	0.0085 J	0.014 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	158[e]	59.6	10.6 J	8.6
Potassium	mg/kg	-	2300	-	-	-	-	-	3020 J	2720 J	1120	656
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.599 UJ	0.582 UJ	0.0571 J	0.17 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.097 J	0.0809 J	0.0612 J	0.026 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	599 U	582 U	601 UJ	186 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.134	0.22	0.113 J	0.093 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	29.6 J	28.7 J	15.5 J	14.8
Zinc	mg/kg	47	70	630000	-	-	5000	-	145	92.4	35	71.9
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	0.601 U	0.533 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	83.5	85.9	83.3	93.8

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-10-02*	*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*
Sample ID:									*S-12636-062602-DD-023*	*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*
Sample Date:									*6/26/2002*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.33-2.33) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	-	-	0.0058 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	-	-	0.0058 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	0.02	0.022	0.0024 J
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	-	0.0058 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	-	0.0058 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	-	0.0058 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	-	0.023 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	-	0.023 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	-	0.023 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	-	0.023 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	-	0.0058 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	-	0.0058 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	-	0.0029 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	-	-	0.0058 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	-	-	0.0058 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	-	0.00065 J
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	-	0.0058 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	-	-	0.0058 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	-	-	0.0058 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	-	-	0.0058 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	0.012 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	-	2220
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	-	-	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	-	4.7
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	-	14.7
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	-	0.16 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	-	-	0.11 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-10-02*	*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*
Sample ID:									*S-12636-062602-DD-023*	*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*
Sample Date:									*6/26/2002*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.33-2.33) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	-	34900 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	-	-	5.1
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	-	5.1
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	-	3.2
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	-	7.6
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	-	7490
Lead	mg/kg	21	21	900	44000	-	700	-	168	-	-	4.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	-	11700
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	-	180
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	-	-	0.035 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	-	6.8
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	-	402
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	-	-	2.6 U
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	-	0.019 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	-	529 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	-	0.061 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	-	9.7
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	-	31.5
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	-	0.529 U
Percent moisture	%	-	-	-	-	-	-	-	17.0	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	87.4	87.9	94.5

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:									*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:									*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.33-2.33) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Duplicate		*Duplicate*	
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0068 U	-	-	0.0058 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0068 U	-	-	0.0058 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0068 U	-	-	0.0058 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0068 U	-	-	0.0058 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0068 U	-	-	0.0058 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0068 U	-	-	0.0058 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.027 U	-	-	0.023 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.027 U	-	-	0.023 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.027 U	-	-	0.023 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.027 U	-	-	0.023 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0068 U	-	-	0.0058 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0068 U	-	-	0.0058 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0034 U	-	-	0.0029 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0068 U	-	-	0.0058 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0068 U	-	-	0.0058 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.00067 J	-	-	0.00048 J
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0068 U	-	-	0.0058 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0025 J	-	-	0.0058 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0068 U	-	-	0.0058 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0068 U	-	-	0.0058 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.014 U	-	-	0.012 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	2080	-	-	2340
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	-	-	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	5	-	-	2.3 J
Barium	mg/kg	75	118	130000	150000	-	1300	-	13.3	-	-	11.7
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.19 J	-	-	0.11 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.12 J	-	-	0.096 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:									*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:									*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.33-2.33) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Duplicate		*Duplicate*	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	51900 J	-	-	9330 J
Chromium	mg/kg	18	19	9200	240	-	30	-	5.6	-	-	84.5 (1)
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	5.6	-	-	83.325
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	-	1.175
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	3.8	-	-	2.7
Copper	mg/kg	32	32	73000	59000	-	5800	-	7.8	-	-	40.1
Iron	mg/kg	12000	27900	580000	-	-	6	-	7410	-	-	6300
Lead	mg/kg	21	21	900	44000	-	700	-	5.2	20.8	30.1	23.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	23000	-	-	2490
Manganese	mg/kg	440	513	90000	1500	-	1	-	189	-	-	124
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.035 J	-	-	0.035 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	8.4	-	-	70
Potassium	mg/kg	-	2300	-	-	-	-	-	397	-	-	292 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	2.7 U	-	-	2.7 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.021 J	-	-	0.061 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	531 U	-	-	260 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.063 J	-	-	0.031 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	10.3	-	-	8.6
Zinc	mg/kg	47	70	630000	-	-	5000	-	32.8	-	-	107
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.531 U	-	-	0.533 U
Percent moisture	%	-	-	-	-	-	-	-	-	15.0	11.8	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	94.2	-	-	93.9

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*
Sample ID:									*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*
Sample Date:									*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*
Sample Depth:									*(4-6) ft*	*(0.5-2.5) ft*	*(0.83-2.83) ft*	*(0.66-2.66) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0044 U	-	0.0047 U	0.0052 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0044 U	-	0.0047 U	0.0052 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0044 U	-	0.0047 U	0.0052 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0044 U	-	0.0047 U	0.0052 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0044 U	-	0.0047 U	0.0052 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0044 U	-	0.0047 U	0.0052 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.017 U	-	0.019 U	0.021 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.017 U	-	0.019 U	0.021 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.017 U	-	0.019 U	0.021 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.017 U	-	0.019 U	0.021 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0044 U	-	0.0047 U	0.0052 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0044 U	-	0.0047 U	0.0052 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0022 U	-	-	0.0026 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0044 U	-	0.0047 U	0.0052 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0044 U	-	-	0.0052 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0023 J	-	0.0047 U	0.0052 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0044 U	-	0.0047 U	0.0052 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0044 U	-	0.00084 J	0.0084
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0044 U	-	0.0047 U	0.0052 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0012 J	-	0.0047 U	0.0052 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0087 U	-	0.0047 U	0.01 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	0.05 J	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	0.059 J	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	0.044 J	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	0.15 J	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	0.21 J	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	0.11 J	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	4850	-	-	3140
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.229 UJ	-	1.2 U	1 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.96	-	5.8	5.4
Barium	mg/kg	75	118	130000	150000	-	1300	-	31.6	-	36.3	21.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.218	-	0.34 J	0.21 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.0858 J	-	0.14 J	0.13 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*
Sample ID:									*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*
Sample Date:									*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*
Sample Depth:									*(4-6) ft*	*(0.5-2.5) ft*	*(0.83-2.83) ft*	*(0.66-2.66) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Calcium	mg/kg	-	88000	-	-	-	-	-	34000	-	-	33200
Chromium	mg/kg	18	19	9200	240	-	30	-	28.6	-	10.7	20.2
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	28.6	-	10.7	18.842
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	0.7 U	1.358
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	3.35	-	6.9	5.8
Copper	mg/kg	32	32	73000	59000	-	5800	-	43.4	-	83.7	68.4
Iron	mg/kg	12000	27900	580000	-	-	6	-	10500	-	-	9520
Lead	mg/kg	21	21	900	44000	-	700	-	13.9	5.69	7	6.3
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	12600	-	-	13200
Manganese	mg/kg	440	513	90000	1500	-	1	-	200	-	-	205
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0103 J	-	0.038 U	0.01 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	26	-	15.9	16.3
Potassium	mg/kg	-	2300	-	-	-	-	-	1160	-	-	621
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.215 J	-	0.16 J	0.19 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.0396 J	-	0.047 J	0.032 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	572 U	-	-	520 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.114 U	-	0.14 J	0.08 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	13.5	-	15.5	11.8
Zinc	mg/kg	47	70	630000	-	-	5000	-	45.1	-	40.9	36.9
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.452 J	-	0.579 U	0.291 J
Percent moisture	%	-	-	-	-	-	-	-	-	16.1	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	120 U	-
Total solids	%	-	-	-	-	-	-	-	87.4	-	86.4	96.2

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*	*BH-9-17-00*
Sample ID:									*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*	*S-12636-060600-DRD-083*
Sample Date:									*6/26/2002*	*6/12/2000*	*6/12/2000*	*6/6/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.66-2.66) ft*	*(0.66-2.66) ft*	*(0.42-2.42) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	0.0045 U	0.0045 UJ	0.0055 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	0.0045 U	0.0045 UJ	0.0055 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	0.0045 U	0.0045 UJ	0.0055 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	0.0045 U	0.0045 UJ	0.0055 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	0.0045 U	0.0045 UJ	0.0055 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.0045 U	0.0045 UJ	0.0055 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	0.018 U	0.018 UJ	0.022 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	0.018 U	0.018 UJ	0.022 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	0.018 U	0.018 UJ	0.022 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.018 U	0.013 J	0.0026 J
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	0.0045 U	0.0045 UJ	0.0055 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	0.0045 U	0.0011 J	0.0055 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0023 U	0.0022 UJ	0.0027 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	0.0045 U	0.0045 UJ	0.0055 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0045 U	0.0045 UJ	0.0055 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.0045 U	0.0045 UJ	0.00057 J
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	0.0045 U	0.0045 UJ	0.0055 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	0.0045 U	0.0045 UJ	0.0055 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	0.0045 U	0.0045 UJ	0.0055 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	0.0045 U	0.0045 UJ	0.0055 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	0.009 U	0.0089 UJ	0.011 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	5830	6200	2580
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	1.1 U	1.1 U	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	4.5	5.2	2.7
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	79.4	34.2	14.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	0.45 J	0.46 J	0.12 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.083 J	0.11 J	0.072 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*	*BH-9-17-00*
Sample ID:									*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*	*S-12636-060600-DRD-083*
Sample Date:									*6/26/2002*	*6/12/2000*	*6/12/2000*	*6/6/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.66-2.66) ft*	*(0.66-2.66) ft*	*(0.42-2.42) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	47900	53900	25200 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	14.5	14.9	3.6
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	14.5	14.9	3.6
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	7.1	11.4	2.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	9.3	9.2	4.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	12300	12500	7360
Lead	mg/kg	21	21	900	44000	-	700	-	7.05	6	6.8	3.6
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	17900	13200	7220
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	230	289	155
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.037 U	0.037 U	0.036 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	84	140[e]	4.2
Potassium	mg/kg	-	2300	-	-	-	-	-	-	1300	1330	371
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.17 J	0.21 J	2.7 U
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.057 J	0.044 J	0.55 U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	557 U	558 U	545 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	0.13 J	0.13 J	0.038 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	16.4	17.7	10.3
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	27.6	36.1	17.4
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.557 U	0.558 U	0.545 U
Percent moisture	%	-	-	-	-	-	-	-	17.6	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	89.7	89.6	91.7

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*
Sample ID:									*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*
Sample Date:									*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*
Sample Depth:									*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0057 U	0.0053 U	0.0042 U	0.0052 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0057 U	0.0053 U	0.0042 U	0.0052 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0057 U	0.00053 J	0.00082 J	0.0052 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0057 U	0.0053 U	0.0042 U	0.0052 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0057 U	0.0053 U	0.0042 U	0.0052 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0057 U	0.0053 U	0.0042 U	0.0052 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.023 U	0.021 U	0.017 U	0.021 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.023 U	0.021 U	0.017 U	0.021 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.023 U	0.021 U	0.017 U	0.021 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.023 U	0.021 U	0.017 U	0.0055 J
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0057 U	0.0053 U	0.0042 U	0.0052 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0057 U	0.0053 U	0.0042 U	0.0052 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0028 U	0.0026 U	0.0021 U	0.0026 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0057 U	0.0053 U	0.014	0.0052 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0057 U	0.0053 U	0.0042 U	0.0052 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.00063 J	0.00058 J	0.0042 U	0.0052 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0057 U	0.0053 U	0.0042 U	0.0052 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0063	0.0053 U	0.0042 U	0.00048 J
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0057 U	0.0053 U	0.0049	0.00049 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0036 J	0.0053 U	0.0042 U	0.0065
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.011 U	0.011 U	0.061	0.01 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	4420	4370	3910	2890
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1 UJ	1 UJ	1.1 U	1.1 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.6	2.9	11.9	6.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	31.1	27.3	27.4	17.2
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.22 J	0.19 J	0.31 J	0.22 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.085 J	0.088 J	0.18 J	0.17 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*
Sample ID:									*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*
Sample Date:									*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*
Sample Depth:									*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	25200 J	2080 J	74900	17900
Chromium	mg/kg	18	19	9200	240	-	30	-	7.4	5.5	13.9	8.4
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	7.4	5.5	13.9	8.4
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	5.4	2.6	8	10.8
Copper	mg/kg	32	32	73000	59000	-	5800	-	8.4	3.7	16.2	10.2
Iron	mg/kg	12000	27900	580000	-	-	6	-	10300	9760	9220	9220
Lead	mg/kg	21	21	900	44000	-	700	-	6.8	4.7	10.2	10.5
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	8640	1300	18400	5510
Manganese	mg/kg	440	513	90000	1500	-	1	-	279	265	245	236
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.034 U	0.034 U	0.038 U	0.036 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	11.6	5.3	19.9	11.2
Potassium	mg/kg	-	2300	-	-	-	-	-	848	615	733	394
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.11 J	0.17 J	0.17 J	0.18 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.02 J	0.013 J	0.054 J	0.038 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	510 U	522 U	572 U	552 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.089 J	0.051 J	0.17 J	0.086 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	14.5	14.1	12.7	11
Zinc	mg/kg	47	70	630000	-	-	5000	-	27.9	23.5	69.7	485
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.51 U	0.522 U	0.572 U	0.552 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	98.0	95.8	87.5	90.6

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-2-00*	*BH-9-2-00*	*BH-9-20-00*	*BH-9-20-00*
Sample ID:									*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*	*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*
Sample Date:									*6/6/2000*	*6/6/2000*	*6/7/2000*	*6/7/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*	*(15-16) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0054 U	0.0051 U	0.0083 U	0.0041 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0054 U	0.0051 U	0.0083 U	0.0041 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0054 U	0.0051 U	0.0083 U	0.0041 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0054 U	0.0051 U	0.0083 U	0.0041 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0054 U	0.0051 U	0.00073 J	0.0041 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0054 U	0.0051 U	0.0083 U	0.0041 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.022 U	0.021 U	0.033 U	0.017 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.022 U	0.021 U	0.033 U	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.022 U	0.021 U	0.033 U	0.017 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.022 U	0.021 U	0.033 U	0.0045 J
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0054 U	0.0051 U	0.0083 U	0.0041 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0054 U	0.0051 U	0.0083 U	0.0041 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0027 U	0.0026 U	0.0041 U	0.0021 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0054 U	0.0051 U	0.0083 U	0.0023 J
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0054 U	0.0051 U	0.0083 U	0.00072 J
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0008 J	0.00056 J	0.0083 U	0.0041 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0054 U	0.0051 U	0.0083 U	0.0041 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0054 U	0.0051 U	0.0083 U	0.0041 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0054 U	0.0051 U	0.0083 U	0.00034 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0054 U	0.0051 U	0.0083 U	0.0041 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.011 U	0.01 U	0.017 U	0.0064 J
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	5350	2580	4630	2900
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1 UJ	1.1 UJ	1.2 U	1.1 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	3.9	3.8	13.5	5.7
Barium	mg/kg	75	118	130000	150000	-	1300	-	22.7	12.8	47.5	17.6
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.13 J	0.11 J	0.82	0.35 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.12 J	0.4 J	0.13 J	0.15 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-2-00*	*BH-9-2-00*	*BH-9-20-00*	*BH-9-20-00*
Sample ID:									*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*	*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*
Sample Date:									*6/6/2000*	*6/6/2000*	*6/7/2000*	*6/7/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*	*(15-16) ft*
										Duplicate		
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	31600 J	28300 J	32500	24500
Chromium	mg/kg	18	19	9200	240	-	30	-	7.2	6.4	8.4	47.1 (1)
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	7.2	6.4	8.4	46.229
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	0.871
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	3.7	8	3.6	5.5
Copper	mg/kg	32	32	73000	59000	-	5800	-	11.5	7.9	10.6	10.4
Iron	mg/kg	12000	27900	580000	-	-	6	-	13200	7690	16400	8540
Lead	mg/kg	21	21	900	44000	-	700	-	7.6	4.8	7.7	7.1
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	255	6910	10700	8940
Manganese	mg/kg	440	513	90000	1500	-	1	-	255	175	234	205
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.024 J	0.025 J	0.033 J	0.027 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	11.3	6.9	9.9	15.3
Potassium	mg/kg	-	2300	-	-	-	-	-	1120	451	1030	471
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.22 J	2.6 U	1 J	0.26 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.045 J	0.022 J	0.043 J	0.064 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	523 U	529 U	596 U	551 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.022 J	0.046 J	0.81	0.14 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	18.4	10.3	17.5	11
Zinc	mg/kg	47	70	630000	-	-	5000	-	399	82.1	39.8	43.1
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.523 U	0.529 U	0.596 U	0.551 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	52 U	53 U	-	-
Total solids	%	-	-	-	-	-	-	-	95.7	94.5	83.9	90.8

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*
Sample ID:									*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*
Sample Date:									*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(2-4) ft*	*(0.83-2.83) ft*	*(0.5-2.5) ft*
												Excavated
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	0.0051 U	0.0048 U	6[e]
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	0.0051 U	0.0048 U	3.3
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.041	0.0051 U	0.00057 J	1[de]
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	0.0051 U	0.0048 U	0.045 J
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	0.0051 U	0.0048 U	0.21 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.0051 U	0.0048 U	0.21 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	0.02 U	0.019 U	0.82 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	0.02 U	0.019 U	0.82 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	0.02 U	0.019 U	0.82 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.02 U	0.019 U	0.82 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	0.0051 U	0.0048 U	0.21 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	0.0051 U	0.0048 U	0.21 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0025 U	0.0024 U	0.056 J
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	0.0051 U	0.0048 U	0.21 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0051 U	0.0048 U	0.21 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.0029 J	0.0048 U	0.21 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	0.0051 U	0.0048 U	0.21 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	0.0055	0.0048 U	0.17 J[e]
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	0.0051 U	0.0048 U	0.87
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	0.0051 U	0.0048 U	0.024 J
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	0.01 U	0.0096 U	0.14 J
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	5990	7570	8760
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	0.224 UJ	1.1 U	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	7.13	9	8.4
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	66.5	53.8	79
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	0.525	0.48 J	0.5 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.142	0.16 J	0.2 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*
Sample ID:									*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*
Sample Date:									*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(2-4) ft*	*(0.83-2.83) ft*	*(0.5-2.5) ft*
												Excavated
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	94500	27100	57500 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	17.6	22.7	14.6
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	17.6	22.7	14.6
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	8.1	7.2	8.4
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	20.4	11.7	15.2
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	12900	16500	18900
Lead	mg/kg	21	21	900	44000	-	700	-	-	8.52	8.7	8.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	5480	11100	21500
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	241	283	428
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.0122 J	0.047 U	0.012 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	48.9	17.1	18.8
Potassium	mg/kg	-	2300	-	-	-	-	-	-	822	1230	1880
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.468 J	0.33 J	0.18 J
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.0603 J	0.057 J	0.1 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	1420	563 U	1200
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	0.163	0.15 J	0.081 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	18.1	21.2	26
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	60.8	44.3	55.9
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.56 U	0.563 U	0.564 UJ
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	78.8	89.3	88.9	88.7

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-24-00*	*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*
Sample ID:									*S-12636-060200-DRD-052*	*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*
Sample Date:									*6/2/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*
												Excavated
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	2.4	0.0048 U	0.0045 U	0.44 UJ
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	1.2	0.0048 U	0.0045 U	0.28 J
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.23 U	0.0048 U	0.00091 J	0.44 UJ
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.23 U	0.0048 U	0.0045 U	0.44 UJ
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.23 U	0.0048 U	0.0045 U	0.44 UJ
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.23 U	0.0004 J	0.0045 U	0.44 UJ
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.92 U	0.019 U	0.018 U	1.8 UJ
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.92 U	0.019 U	0.018 U	1.8 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	5.9	0.019 U	0.018 U	0.17 J
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	1.2	0.019 U	0.0042 J	1.8 UJ
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.23 U	0.0048 U	0.0045 U	0.64 J[e]
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.23 U	0.0048 U	0.0045 U	0.44 UJ
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.00066 J	0.00061 J	0.22 UJ
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.23 U	0.0048 U	0.0045 U	3.8 J[e]
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0048 U	0.0045 U	0.11 J
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.11 J[e]	0.0048 U	0.00049 J	0.29 J[e]
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.23 U	0.0048 U	0.0045 U	0.44 UJ
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.049 J	0.0032 J	0.0045 U	0.44 UJ
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.28	0.0048 U	0.0045 U	1.2 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.23 U	0.016	0.0045 U	0.44 UJ
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.46 U	0.0096 U	0.00078 J	9.8 J[e]
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	8.7 U	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	8.7 U	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	8.7 U	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	8.7 U	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	8.7 U	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	8.7 U	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	2700	8270	4760
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	1.1 UJ	1.1 UJ	33.2 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	3.7	3	6.5	13.5 J
Barium	mg/kg	75	118	130000	150000	-	1300	-	20.5 J	17.5	93.7	2310[e]
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.21 J	0.17 J	0.42 J	16.6 U
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16 J	0.066 J	0.072 J	9.7 J[e]

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-24-00*	*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*
Sample ID:									*S-12636-060200-DRD-052*	*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*
Sample Date:									*6/2/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft Excavated*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	138000 J	54500 J	11500
Chromium	mg/kg	18	19	9200	240	-	30	-	9.7	916 (1)	25.4	49700 (1)
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	7.363	916	25.4	49088.72
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	2.337	0.7 U	0.7 U	611.28[ce]
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	2.7	4.8	7.8	129 J[e]
Copper	mg/kg	32	32	73000	59000	-	5800	-	7.3	12.8	12.2	939
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	20400	18400	30000[e]
Lead	mg/kg	21	21	900	44000	-	700	-	4.1	4.4	7.1	28100[ce]
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	36500[e]	21300	862
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	304	322	376
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0052 J	0.067	0.027 J	1.8[e]
Nickel	mg/kg	20	26	150000	16000	-	100	-	11.8 J	249[e]	20.9	89600[ce]
Potassium	mg/kg	-	2300	-	-	-	-	-	-	320 U	339 U	498 U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.13 J	0.23 J	0.21 J	4.8 J[e]
Silver	mg/kg	1	1	9000	2900	-	13	-	0.026 J	0.28 J	0.067 J	3.4 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	533 U	565 U	830 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.06 J	0.012 J	0.12 J	16.6 U
Vanadium	mg/kg	-	39	5500	-	-	990	-	13.2	15	23.2	28.1
Zinc	mg/kg	47	70	630000	-	-	5000	-	25	101	37.3	18500[e]
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.525 U	0.533 U	0.565 U	0.83 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	87 J	-	-	-
Total solids	%	-	-	-	-	-	-	-	95.2	93.8	88.4	60.3

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:									*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
									Excavated			
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0043 U	0.0045 U	0.0042 U	0.0045 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.0014 J	0.018 U	0.017 U	0.018 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.017 U	0.018 U	0.017 U	0.018 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.017 U	0.018 U	0.017 U	0.018 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.0046 J	0.018 U	0.0039 J	0.0056 J
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0043 U	0.0045 U	0.0042 U	0.0045 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0021 U	0.0023 U	0.0021 U	0.0023 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0011 J	0.0045 U	0.0042 U	0.0045 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.00028 J	0.00052 J	0.0042 U	0.0045 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0086 U	0.00068 J	0.0083 U	0.0091 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7930	2740	7620	7930
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 U	1.1 U	1.1 U	1.1 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.9	4.9	8	6.7
Barium	mg/kg	75	118	130000	150000	-	1300	-	50.1	14.7	126	52.3
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.43 J	0.18 J	0.49 J	0.48 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.15 J	0.12 J	0.14 J	0.23 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:									*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
									Excavated			
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	51900	32700	57800	55000
Chromium	mg/kg	18	19	9200	240	-	30	-	14.9	5.8	14.3	14.2
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	14.9	5.68	14.3	13.96
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.08 U	0.12	0.7 U	0.24
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	8.1 J	3.4 J	8.6 J	8.6 J
Copper	mg/kg	32	32	73000	59000	-	5800	-	12.9	8.5	13.2	15.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	18300	8970	17400	18100
Lead	mg/kg	21	21	900	44000	-	700	-	7.7	5.8	10.5	8.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	22600	11200	25900	23000
Manganese	mg/kg	440	513	90000	1500	-	1	-	341	193	325	315
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0093 J	0.01 J	0.016 J	0.0092 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	60.7	9	21.9	22.3
Potassium	mg/kg	-	2300	-	-	-	-	-	338 U	336 U	343 U	340 U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.27 J	0.18 J	0.11 J	0.23 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.062 J	0.029 J	0.063 J	0.062 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	564 U	561 U	571 U	566 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.17 J	0.086 J	0.2 J	0.21 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	22.8	10.5	22	23.1
Zinc	mg/kg	47	70	630000	-	-	5000	-	43	31.5	45.9	119
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	5.64 U G	0.561 U	0.571 U	0.566 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	88.7	89.2	87.6	88.3

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
 - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*
Sample ID:									*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*
Sample Date:									*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*
Sample Depth:									*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0046 UJ	0.0007 J	0.0008 J	0.0058 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 UJ	0.025 U	0.03 U	0.023 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.018 UJ	0.025 U	0.03 U	0.023 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.018 UJ	0.025 U	0.03 U	0.023 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.0061 J	0.006 J	0.0036 J	0.0029 J
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0008 J	0.0063 U	0.0074 U	0.0058 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0023 UJ	0.0031 U	0.0037 U	0.0029 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0046 UJ	0.0012 J	0.00098 J	0.0058 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0046 UJ	0.0063 U	0.0014 J	0.0058 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.001 J	0.00052 J	0.0014 J	0.00036 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0092 UJ	0.013 U	0.015 U	0.012 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7780	8110	6610	2040
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 U	1.1 UJ	1.1 UJ	1 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.6	3.9	5.3	5.1
Barium	mg/kg	75	118	130000	150000	-	1300	-	44.5	40.8	60	11.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.44 J	0.14 J	0.22 J	0.15 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.12 J	0.15 J	0.19 J	0.1 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*
Sample ID:									*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*
Sample Date:									*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*
Sample Depth:									*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	49300	46500 J	41500 J	15700
Chromium	mg/kg	18	19	9200	240	-	30	-	14	6.9	10.9	5.2
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	13.88	6.9	10.9	5.2
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.12	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	8.2 J	3.7	4.8	2.8 J
Copper	mg/kg	32	32	73000	59000	-	5800	-	12.7	22.3	21.8	7.4
Iron	mg/kg	12000	27900	580000	-	-	6	-	17200	10900	15800	10100
Lead	mg/kg	21	21	900	44000	-	700	-	7.5	10.2	11	4.9
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	21500	16000	14300	5070
Manganese	mg/kg	440	513	90000	1500	-	1	-	305	184	337	215
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.017 J	0.03 J	0.036 U	0.019 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	21.6	8.7	16.9	7.1
Potassium	mg/kg	-	2300	-	-	-	-	-	340 U	1670	1390	311 U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.15 J	0.84 J	0.59 J	0.093 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.058 J	0.076 J	0.075 J	0.024 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	567 U	373 J	483 J	519 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.18 J	0.038 J	0.057 J	0.059 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	22.7	16.5	19.7	9.2
Zinc	mg/kg	47	70	630000	-	-	5000	-	40.3	10800[e]	5400[e]	28.3
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.567 U	0.532 U	0.55 U	0.519 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	88.2	94.1	90.9	96.4

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*	*BH-9-4-02*
Sample ID:									*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*	*S-12636-062602-DD-010*
Sample Date:									*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
											Duplicate	
Parameters:	*Units*	*Statewide*	*Background*	*IDCC*	*PSIC*	*SVIAIC*	*IDWPC*	*ISSIC*				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	0.0043 U	0.0046 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	0.0043 U	0.0046 U	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.069	0.0043 U	0.0013 J	0.0083
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	0.0043 U	0.0046 U	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	0.0043 U	0.0046 U	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.0043 U	0.0046 U	-
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	0.017 U	0.018 U	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	0.017 U	0.018 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	0.017 U	0.018 U	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.017 U	0.018 U	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	0.0043 U	0.0046 U	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	0.0043 U	0.0046 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0021 U	0.0023 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	0.0043 U	0.0046 U	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0043 U	0.0046 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.00042 J	0.0046 U	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	0.0043 U	0.0046 U	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	0.0043 U	0.0046 U	-
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	0.0043 U	0.0046 U	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	0.0043 U	0.0046 U	-
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	0.0086 U	0.0092 U	-
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	10700	8750	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	1.2 UJ	1.2 UJ	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	10.2	8.3	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	73.1	56.4	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	0.5 J	0.49 J	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.073 J	0.13 J	-

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*	*BH-9-4-02*
Sample ID:									*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*	*S-12636-062602-DD-010*
Sample Date:									*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	45800 J	56500 J	-
Chromium	mg/kg	18	19	9200	240	-	30	-	-	16.2	15.9	-
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	16.2	15.9	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	0.7 U	0.7 U	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	7	23.5[e]	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	13.2	13.5	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	22000	18700	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	8.8	8.7	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	19600	23100	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	270	306	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.025 J	0.031 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	19.9	28.1	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	353 U	360 U	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.31 J	0.26 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.069 J	0.072 J	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	588 U	600 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	0.1 J	0.15 J	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	29.7	25.8	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	45.2	45.8	-
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.588 U	0.6 U	-
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	86.1	85.1	83.4	87.2

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*
Sample ID:									*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*
Sample Date:									*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(4-6) ft*	*(0.75-2.75) ft*	*(0.33-2.33) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	0.0048 U	0.0048 U	0.0042 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	0.0048 U	0.0048 U	0.0042 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	0.0048 U	0.0048 U	0.0042 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	0.0048 U	0.0048 U	0.0042 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	0.0048 U	0.0048 U	0.0042 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.0048 U	0.0048 U	0.0042 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	0.019 U	0.019 U	0.017 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	0.019 U	0.019 U	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	0.019 U	0.019 U	0.017 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.019 U	0.019 U	0.017 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	0.0048 U	0.0048 U	0.0042 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	0.0048 U	0.0048 U	0.0042 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0024 U	0.0024 U	0.0021 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	0.0048 U	0.0048 U	0.0042 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0048 U	0.0048 U	0.0042 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.0016 J	0.0048 U	0.0042 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	0.0048 U	0.0048 U	0.0042 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	0.0048 U	0.0048 U	0.0042 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	0.0048 U	0.00026 J	0.0042 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	0.0048 U	0.0048 U	0.0042 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	0.0096 U	0.0095 U	0.0084 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	6350	3400	10000
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	0.234 UJ	1.1 U	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	9.97	2.6 J	6.7
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	53.2	23.6	52.2
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	0.435	0.14 J	0.53 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.165	0.1 J	0.15 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*
Sample ID:									*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*
Sample Date:									*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(4-6) ft*	*(0.75-2.75) ft*	*(0.33-2.33) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	54900	919	49500 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	13	6.2	17
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	13	6.2	17
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	1.23 U	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	9.83	2.8	7.9
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	14.4	3.5	15.3
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	16800	7900	19300
Lead	mg/kg	21	21	900	44000	-	700	-	-	9.05	4.9	8.6
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	27000	982	21700
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	336	178	267
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.0139 J	0.018 J	0.01 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	22.3	6.1	20
Potassium	mg/kg	-	2300	-	-	-	-	-	-	1230	267 J	2200
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.586 U	0.13 J	0.38 J
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.0787 J	0.014 J	0.062 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	586 U	542 U	257 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	0.224	0.036 J	0.19 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	17.4	12.5	29.1
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	65.2	28.8	47.3
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.586 U	0.542 U	0.562 U
Percent moisture	%	-	-	-	-	-	-	-	23.4	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	85.3	92.2	88.9

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-6-02*	*BH-9-6-02*	*BH-9-7-00*	*BH-9-7-00*
Sample ID:									*S-12636-062602-DD-014*	*S-12636-062602-DD-015*	*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*
Sample Date:									*6/26/2002*	*6/26/2002*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
										Duplicate		*Duplicate*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	-	0.0046 U	0.0042 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	-	0.0046 U	0.0042 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	-	0.0046 U	0.0042 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	0.0046 U	0.0042 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	0.0046 U	0.0042 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	0.0046 U	0.0042 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	0.019 U	0.017 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	0.019 U	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	0.019 U	0.017 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	0.019 U	0.017 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	0.0046 U	0.0042 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	0.0046 U	0.0042 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	0.0023 U	0.0021 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	-	0.0046 U	0.0042 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	-	0.0046 U	0.0042 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	0.0046 U	0.0042 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	0.0046 U	0.0042 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	-	0.0046 U	0.0042 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	-	0.0046 U	0.00058 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	-	0.0046 U	0.0042 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	0.0093 U	0.0084 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	11300	10200
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	-	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	7.8	7.2
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	42.9	50.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	0.71	0.6
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	-	0.15 J	0.15 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-6-02*	*BH-9-6-02*	*BH-9-7-00*	*BH-9-7-00*
Sample ID:									*S-12636-062602-DD-014*	*S-12636-062602-DD-015*	*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*
Sample Date:									*6/26/2002*	*6/26/2002*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
										Duplicate		*Duplicate*
Parameters:	*Units*	*Statewide*	*Background*	*IDCC*	*PSIC*	*SVIAIC*	*IDWPC*	*ISSIC*				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	51900 J	49900 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	-	19.7	18.8
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	19.7	18.8
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	1.3 U	1.29 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	7	6.7
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	15.4	14.9
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	21200	20200
Lead	mg/kg	21	21	900	44000	-	700	-	-	-	9.7	9.4
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	23200	21700
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	229	213
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	-	0.011 J	0.011 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	20.5	19.1
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	2480	2170
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	-	0.16 J	0.28 J
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	0.071 J	0.054 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	284 J	242 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	0.098 J	0.18 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	31.2	30.6
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	54.1	51.7
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	0.574 UJ	0.568 U
Percent moisture	%	-	-	-	-	-	-	-	29.9	22.6	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	87.1	88.0

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*
Sample ID:									*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*
Sample Date:									*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.66-2.66) ft*	*(4-6) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	0.0053 U	-	0.0044 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	0.0053 U	-	0.0044 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	0.0053 U	-	0.0044 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	0.0053 U	-	0.0044 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	0.0053 U	-	0.0044 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.0053 U	-	0.0044 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	0.021 U	-	0.0045 J
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	0.021 U	-	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	0.021 U	-	0.017 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.021 U	-	0.02
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	0.0053 U	-	0.0044 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	0.0053 U	-	0.0044 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0027 U	-	0.0022 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	0.0053 U	-	0.0044 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0053 U	-	0.0044 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.0053 U	-	0.00058 J
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	0.0053 U	-	0.0044 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	0.0053 U	-	0.0044 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	0.0009 J	-	0.00056 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	0.0053 U	-	0.0044 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	0.00094 J	-	0.0087 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	1900	-	7290
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	1 UJ	-	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	3.8	-	7.9
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	10.7	-	56
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	0.12 J	-	0.37 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.084 J	-	0.096 J

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*
Sample ID:									*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*
Sample Date:									*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*
Sample Depth:									*(0.66-2.66) ft*	*(4-6) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	10000 J	-	47900 J
Chromium	mg/kg	18	19	9200	240	-	30	-	-	3.9	-	13.4
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	3.781853	-	13.4
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	1.24 U	0.118147	1.15 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	2	-	8.5
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	4.8	-	13.3
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	5860	-	16400
Lead	mg/kg	21	21	900	44000	-	700	-	-	4.1	-	7.4
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	2870	-	17200
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	118	-	288
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.0077 J	-	0.027 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	5.1	-	20.3
Potassium	mg/kg	-	2300	-	-	-	-	-	-	245 J	-	341 U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.14 J	-	0.22 J
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.013 J	-	0.059 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	162 J	-	568 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	0.52 U	-	0.13 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	8.1	-	20.9
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	22.2	-	223
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.516 UJ	-	0.568 U
Percent moisture	%	-	-	-	-	-	-	-	24.1	-	15.1	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	96.8	-	88.1

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-9-00*	*BH-26A-01*	*BH-26B-01*	*BH-26C-01*
Sample ID:									*S-12636-060600-DRD-075*	*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*
Sample Date:									*6/6/2000*	*5/3/2001*	*5/3/2001*	*5/3/2001*
Sample Depth:									*(0.5-2.5) ft*	*(4-6) ft*	*(0-1) ft*	*(4-6) ft*
									Duplicate			
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.00037 J	0.0058 UJ	0.0056 U	0.0046 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.0037 J	0.013 J	0.022 U	0.019 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.017 U	0.0061 J	0.022 U	0.019 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.017 U	0.023 UJ	0.022 U	0.019 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.02	0.051 J	0.022 U	0.019 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0022 U	0.0029 UJ	0.0028 U	0.0023 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0043 U	0.01 J	0.0017 J	0.0046 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.00063 J	0.0058 UJ	0.0056 U	0.0046 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0043 U	0.0058 UJ	0.0056 U	0.0046 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0086 U	0.0031 J	0.011 U	0.0093 U
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	8620	5290	2080	9880
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	0.316 J	0.231 UJ	0.238 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	5.9	4.22	2.9	5.97
Barium	mg/kg	75	118	130000	150000	-	1300	-	96.3	47.3	9.91	51.5
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.34 J	0.235	0.101 J	0.514
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.13 J	1.2	0.0869 J	0.136

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-9-9-00*	*BH-26A-01*	*BH-26B-01*	*BH-26C-01*
Sample ID:									*S-12636-060600-DRD-075*	*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*
Sample Date:									*6/6/2000*	*5/3/2001*	*5/3/2001*	*5/3/2001*
Sample Depth:									*(0.5-2.5) ft*	*(4-6) ft*	*(0-1) ft*	*(4-6) ft*
									Duplicate			
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	64100 J	98500	26300	50000
Chromium	mg/kg	18	19	9200	240	-	30	-	12.6	**119**[e]	6.99	**43.8**[e]
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	12.6	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	9	6.27	2.01	7.04
Copper	mg/kg	32	32	73000	59000	-	5800	-	11.8	60 J	4.53 J	11 J
Iron	mg/kg	12000	27900	580000	-	-	6	-	17000	18100	5680	16200
Lead	mg/kg	21	21	900	44000	-	700	-	7.1	119	3.41	8.8
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	19500	13500	8070	19500
Manganese	mg/kg	440	513	90000	1500	-	1	-	386	241	149	291
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.037 U	0.0306 J	0.004 J	0.0089 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	17.7	**222**[e]	4.74	32.1
Potassium	mg/kg	-	2300	-	-	-	-	-	341 U	1070	308 J	2370
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.28 J	0.579 U	0.0328 J	0.595 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.062 J	6.49	0.0253 J	0.07 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	568 U	146 J	578 U	595 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.12 J	0.0357 J	0.0536 J	0.239
Vanadium	mg/kg	-	39	5500	-	-	990	-	21.3	12.2	8.88 J	25.9
Zinc	mg/kg	47	70	630000	-	-	5000	-	354	207	19.4	50.4
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.568 U	0.807	0.578 U	0.595 U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	88.1	86.4	86.4	84.1

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*	*K-2*
Sample ID:									*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*	*K-2*
Sample Date:									*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*	*11/6/1996*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*	*-*
										Duplicate			*(other)*	
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***						
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*						
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0045 UJ	0.0042 U	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0045 UJ	0.0042 U	-	-	-	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0045 UJ	0.0042 U	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0045 UJ	0.0042 U	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0045 UJ	0.0042 U	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0045 UJ	0.0042 U	-	-	-	-
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 UJ	0.017 U	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.018 UJ	0.017 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.018 UJ	0.017 U	-	-	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.018 UJ	0.017 U	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0045 UJ	0.0042 U	-	-	-	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0045 UJ	0.0042 U	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0022 UJ	0.0021 U	-	-	-	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0045 UJ	0.0042 U	-	-	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0045 UJ	0.0042 U	-	-	-	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0045 UJ	0.0042 U	-	-	-	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0045 UJ	0.0042 U	-	-	-	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0045 UJ	0.0042 U	-	-	-	-
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0045 UJ	0.0042 U	-	-	-	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0045 UJ	0.0042 U	-	-	-	-
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.009 UJ	0.0084 U	-	-	-	-
Semi-volatile Organic Compounds														
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-	-	-
Metals														
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	11800	8370	-	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.239 UJ	0.231 UJ	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.8	5.38	3.25	3.36	4.2	5.19
Barium	mg/kg	75	118	130000	150000	-	1300	-	142	45.7	9.42	33.1	36	57.7
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.598	0.409	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.13	0.111 J	U	U	0.11	U

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*	*K-2*
Sample ID:									*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*	*K-2*
Sample Date:									*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*	*11/6/1996*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*	*-*
										Duplicate			*(other)*	
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*						
Calcium	mg/kg	-	88000	-	-	-	-	-	67900	44600	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	19	13	5.47	11.2	11	12.5
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	8.61	5.96	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	12.3 J	9.18 J	U	U	13	U
Iron	mg/kg	12000	27900	580000	-	-	6	-	19200	15100	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	9.02	6.48	U	4.99	7.2	7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	23200	18100	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	374	295	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0105 J	0.0079 J	U	U	0.1 U	U
Nickel	mg/kg	20	26	150000	16000	-	100	-	21.4	15	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	2820	2010	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.597 U	0.577 U	U	U	0.52	U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.0823 J	0.0604 J	U	U	0.5 U	U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	597 U	577 U	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.223	0.154	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	30.6	23.3	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	42.3	30.6	U	U	40	U
General Chemistry														
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.597 U	0.577 U	31.8[e]	U	0.2 U	U
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	83.8	86.7	-	-	88.8	-

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*
Sample ID:									*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*
Sample Date:									*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*
Sample Depth:									-	-	*(0.5-2.5) ft*	-	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*
											Excavated	*Excavated*			
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***							
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	-	-	-	0.01 U	0.01 U	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	-	-	-	0.01 U	0.01 U	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	-	-	-	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	-	-	0.01 U	0.01 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	-	-	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	-	-	0.01 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	-	-	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	-	-	0.01 U	0.01 U	0.01 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	-	-	-	0.01 U	0.01 U	0.01 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	-	-	0.01 U	0.01 U	0.01 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	-	-	-	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	-	-	-	0.01 U	0.01 U	0.01 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	-	-	-	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-	-	-
Semi-volatile Organic Compounds															
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	0.33 U	0.33 U	0.33 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-	0.33 U	0.33 U	0.33 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-	0.33 U	0.33 U	0.33 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-	0.33 U	0.33 U	0.33 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-	0.33 U	0.33 U	0.33 U
Metals															
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	-	-	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	2.95	3.06	-	10.7	6	6	8
Barium	mg/kg	75	118	130000	150000	-	1300	-	10.4	10.3	-	325	44	36	54
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	U	U	-	6.05[e]	0.81	0.86	0.83

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*
Sample ID:									*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*
Sample Date:									*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*
Sample Depth:									*-*	*-*	*(0.5-2.5) ft*	*-*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*
											Excavated	*Excavated*			
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***							
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*							
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	42.8[e]	9.72	25.9	1160[ce]	15	10	18
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	23.84	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	2.06	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	-	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	U	U	-	U	17	11	14
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	5.03	U	-	1280[be]	16	17	17
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	-	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	-	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	U	U	-	0.09	0.1 U	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	U	U	-	0.649	0.5 U	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	U	U	-	2.97	0.6	0.9	0.8
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	U	U	-	U	41	49	42
General Chemistry															
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	U	-	-	-	-	-	-
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	81.6	-	90.11	95.06	90.10

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:								*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:								*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:								*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:								*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:								*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.01 U	0.01 U	0.42	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.01 U	0.01 U	0.097	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.01 U	0.01 U	0.011	0.01 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.01 U	0.01 U	0.01 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.01 U	0.01 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.01 U	0.01 U	0.01 U	0.01 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.01 U	0.01 U	0.01 U	0.01 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	-	-	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.01 U	0.01 U	0.01 U	0.01 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	-	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.01 U	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.01 U	0.01 U	0.017	0.01 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.01 U	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-
Semi-volatile Organic Compounds												
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.33 U	0.33 U	0.33 U	0.33 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.33 U	0.33 U	0.33 U	0.33 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.33 U	0.33 U	0.33 U	0.33 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	7	9	9	12
Barium	mg/kg	75	118	130000	150000	-	1300	-	74	88	81	100
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.86	0.9	0.67	0.82

TABLE 5.14

AOI 9 FORMER PLATING AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:									*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:									*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:									*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***				
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*				
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	20	18	25	20
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	15	17	16	16
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	19	17	18	19
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.5 U	0.5 U	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.9	0.8	0.8	1
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	43	56	45	48
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	-	-
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	88.77	90.21	86.83	88.64

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-1-00*	*BH-11-1-02*	*BH-11-1-02*	*BH-11-2-00*	*BH-11-3-00*
Sample ID:									*S-12636-053000-DRD-013*	*S-12636-062702-DD-055*	*S-12636-062702-DD-056*	*S-12636-053000-DRD-014*	*S-12636-053000-DRD-015*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(2.5-4.5) ft*	*(0-2) ft*	*(0-2) ft*	*(1-3) ft*	*(2-4) ft*
									Excavated		*Duplicate*		
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Semi-volatile Organic Compounds													
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.37 J	-	-	0.37 U	0.37 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.052 J	-	-	0.37 U	0.37 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.084 J	-	-	0.37 U	0.37 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.085 J	-	-	0.37 U	0.37 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.39 U	-	-	0.37 U	0.37 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.21 J	-	-	0.37 U	0.37 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.2 J	-	-	0.37 U	0.37 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.067 J	-	-	0.37 U	0.37 U
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	16400[e]	-	-	11300	12500
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.2 UJ	-	-	0.17 J	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	131[be]	6.33 J	7 J	10.2	9.1
Barium	mg/kg	75	118	130000	150000	-	1300	-	21.2	-	-	81.6	82.8
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	5.8	-	-	0.68	0.77
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.58 J	-	-	0.12 J	0.19 J
Calcium	mg/kg	-	88000	-	-	-	-	-	60600	-	-	25600	2250
Chromium	mg/kg	18	19	9200	240	-	30	-	35.1 (1)	-	-	16.9	18.7
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	28.14	-	-	16.9	18.7
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	6.96	-	-	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.1	-	-	11.5	8.8
Copper	mg/kg	32	32	73000	59000	-	5800	-	134	-	-	16.6	14
Iron	mg/kg	12000	27900	580000	-	-	6	-	90600[e]	-	-	21900	28700[e]
Lead	mg/kg	21	21	900	44000	-	700	-	7.1	-	-	10.6	10.8
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	5610 J	-	-	18500 J	3540 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	72.5	-	-	384	357
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.018 J	-	-	0.023 J	0.025 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	22.6	-	-	23.3	21.4
Potassium	mg/kg	-	2300	-	-	-	-	-	530	-	-	1560	1380
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	10.6[e]	-	-	0.27 J	0.24 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.16 J	-	-	0.18 J	0.067 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.26 J	-	-	0.2 J	0.17 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	14.5 J	-	-	29.1 J	34.3 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	87.6	-	-	51.7	52.7

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-1-00*	*BH-11-1-02*	*BH-11-1-02*	*BH-11-2-00*	*BH-11-3-00*
Sample ID:									*S-12636-053000-DRD-013*	*S-12636-062702-DD-055*	*S-12636-062702-DD-056*	*S-12636-053000-DRD-014*	*S-12636-053000-DRD-015*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(2.5-4.5) ft*	*(0-2) ft*	*(0-2) ft*	*(1-3) ft*	*(2-4) ft*
									Excavated		*Duplicate*		
Parameters:	***Units***	***Statewide***	***Background***	***IDCC***	***PSIC***	***SVIAIC***	***IDWPC***	***ISSIC***					
			[A]	*[B]*	*[C]*	*[D]*	*[E]*	*[F]*					
General Chemistry													
Percent moisture	%	-	-	-	-	-	-	-	-	19.1	10.6	-	-
Total solids	%	-	-	-	-	-	-	-	84.1	-	-	89.7	88.6

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-3-00*	*BH-11-3-00*	*BH-11-4-00*	*BH-11-4-02*
Sample ID:									*S-12636-053000-DRD-016*	*S-12636-053000-DRD-017*	*S-12636-053000-DRD-018*	*S-12636-062702-DD-062*
Sample Date:									*5/30/2000*	*5/30/2000*	*5/30/2000*	*6/27/2002*
Sample Depth:									*(2-4) ft*	*(8.33-9.75) ft*	*(1.5-2.5) ft*	*(0-2) ft*
									Duplicate			
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Semi-volatile Organic Compounds												
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.36 U	4 U	0.37 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.36 U	4 U	0.37 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.36 U	1.7 J	0.37 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.36 U	4 U	0.37 U	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.36 U	4 U	0.37 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.36 U	4 U	0.37 U	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.36 U	1.5 J	0.37 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.36 U	4 U	0.37 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.36 U	2.1 J	0.37 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.36 U	4 U	0.37 U	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	11700	10600	9060	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	1.2 UJ	1.1 UJ	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.5	20.1[e]	8.8	14.5 J[e]
Barium	mg/kg	75	118	130000	150000	-	1300	-	72	88.7	61.6	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.67	0.66	0.57	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.2 J	0.48 J	0.48 J	-
Calcium	mg/kg	-	88000	-	-	-	-	-	29100	3200	30000	-
Chromium	mg/kg	18	19	9200	240	-	30	-	17.8	17.9	15.6	-
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	17.8	14.99	15.6	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	2.91	0.7 U	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	9.1	14.4[e]	8	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.7	29.5	16.2	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	20400	38300[e]	18600	-
Lead	mg/kg	21	21	900	44000	-	700	-	10.6	22.6	11.2	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	13400 J	2840 J	12800 J	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	387	331	377	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.023 J	0.051	0.024 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	21	37.5	27.8	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1490	1450	1430	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.33 J	0.76 J	0.24 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.065 J	0.096 J	0.069 J	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.19 J	0.3 J	0.18 J	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	28.6 J	31.7 J	24 J	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	55.2	106	133	-

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 11***	***AOI 11***	***AOI 11***	***AOI 11***
Sample Location:									***BH-11-3-00***	***BH-11-3-00***	***BH-11-4-00***	***BH-11-4-02***
Sample ID:									***S-12636-053000-DRD-016***	***S-12636-053000-DRD-017***	***S-12636-053000-DRD-018***	***S-12636-062702-DD-062***
Sample Date:									***5/30/2000***	***5/30/2000***	***5/30/2000***	***6/27/2002***
Sample Depth:									***(2-4) ft***	***(8.33-9.75) ft***	***(1.5-2.5) ft***	***(0-2) ft***
									Duplicate			
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
General Chemistry												
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	9.7
Total solids	%	-	-	-	-	-	-	-	90.4	81.7	89.2	-

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
☐ - Value exceeds criteria identified in superscript.

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-5-00*	*BH-11-6-02*	*BH-11-7-02*	*PFB-23*	*PFB-24*
Sample ID:									*S-12636-053000-DRD-020*	*S-12636-062702-DD-066*	*S-12636-062702-DD-068*	*PFB-23 5.8-7*	*PFB-24 1.2-2.5*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*4/24/1997*	*4/24/1997*
Sample Depth:									*(1-3) ft*	*(0-2) ft*	*(0-2) ft*	*(5.8-7) ft*	*(1.2-2.5) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Semi-volatile Organic Compounds													
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.37 U	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.37 U	-	-	0.33 U	2.2
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.37 U	-	-	0.33 U	4.8
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.37 U	-	-	0.33 U	9.6
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.37 U	-	-	0.33 U	2.6
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.37 U	-	-	0.33 U	1.9
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.37 U	-	-	0.33 U	0.33 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.37 U	-	-	0.33 U	27
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	8220	-	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	9.3	11.6 J	5.93 J	12	11
Barium	mg/kg	75	118	130000	150000	-	1300	-	60.7	-	-	85	64
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.61	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.14 J	-	-	1.1	1.9
Calcium	mg/kg	-	88000	-	-	-	-	-	52800	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	15.7	-	-	23	19
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	15.7	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	7.6	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	14.7	-	-	16	14
Iron	mg/kg	12000	27900	580000	-	-	6	-	18000	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	8.3	-	-	16	19
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	20200 J	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	358	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.014 J	-	-	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	21.1	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1590	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.064 J	-	-	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.057 J	-	-	0.5 U	1.2
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.14 J	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	22.4 J	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	47.8	-	-	58	45

TABLE 5.15

AOI 11 FORMER COAL STORAGE AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 11***	***AOI 11***	***AOI 11***	***AOI 11***	***AOI 11***
Sample Location:									***BH-11-5-00***	***BH-11-6-02***	***BH-11-7-02***	***PFB-23***	***PFB-24***
Sample ID:									***S-12636-053000-DRD-020***	***S-12636-062702-DD-066***	***S-12636-062702-DD-068***	***PFB-23 5.8-7***	***PFB-24 1.2-2.5***
Sample Date:									***5/30/2000***	***6/27/2002***	***6/27/2002***	***4/24/1997***	***4/24/1997***
Sample Depth:									***(1-3) ft***	***(0-2) ft***	***(0-2) ft***	***(5.8-7) ft***	***(1.2-2.5) ft***
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
General Chemistry													
Percent moisture	%	-	-	-	-	-	-	-	-	21.5	9.5	-	-
Total solids	%	-	-	-	-	-	-	-	88.6	-	-	87.13	89.88

Notes:

(1) - The Total Cr result is not compared to criteria since CrVI and CrIII results are available.
J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.16

AOI 12 FORMER CAUSTIC TANKS AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 12*	*AOI 12*	*AOI 12*
Sample Location:									*BH-12-1-00*	*BH-12-2-00*	*BH-12-2-00*
Sample ID:									*S-12636-053000-DRD-025*	*S-12636-053000-DRD-023*	*S-12636-053000-DRD-024*
Sample Date:									*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(1.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Excavated		*Duplicate*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***			
Volatile Organic Compounds											
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0017 J	0.0045 U	0.0047 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.096	0.0023 U	0.0023 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0033	0.0023 U	0.0023 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	**0.11**[e]	0.0045 U	0.0047 U
Semi-volatile Organic Compounds											
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.062 J	0.38 U	0.38 U
General Chemistry											
pH (solid)	s.u.	-	-	-	-	-	-	-	9.7	9.0	9.2
Total solids	%	-	-	-	-	-	-	-	86.8	87.3	87.4

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.17

AOI 13 FORMER HEADLINER ADHESIVE TANKS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 13*	*AOI 13*	*AOI 13*
Sample Location:									*BH-13-1-00*	*BH-13-2-00*	*GP-6*
Sample ID:									*S-12636-053000-DRD-021*	*S-12636-053000-DRD-022*	*GP-6*
Sample Date:									*5/30/2000*	*5/30/2000*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0.42-2.42) ft*	*(0-4) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*			
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0044 U	0.085	0.01 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0044 U	0.0023 J	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0044 U	0.026	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0044 U	0.0074	0.01 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0022 U	0.0007 J	0.01 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0044 U	0.0045 U	0.037
Semi-volatile Organic Compounds											
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.051 J	0.38 U	0.33 U
General Chemistry											
Total solids	%	-	-	-	-	-	-	-	87.8	87.1	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.18

AOI 14 FORMER INCINERATOR AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*
										Duplicate		
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Volatile Organic Compounds												
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	-	-	0.0013
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	-	0.0143
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	-	-	0.0046
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	0.0081
Semi-volatile Organic Compounds												
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.38 U	0.38 U	0.066 J	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.38 U	0.056 J	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.38 U	0.057 J	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	9840	8590	8860	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.3	13	8	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	69.4	55.5	63.9	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.52	0.66	0.41	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.14	0.43	0.17	-
Calcium	mg/kg	-	88000	-	-	-	-	-	64500	53700	40500	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	15.4	15.4	12	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	9	8.5	7.3	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	15	17.7	12.9	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	22000	18900	19800	-
Lead	mg/kg	21	21	900	44000	-	700	-	9	10.4	9.7	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	25500	22600	16300	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	446	413	373	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.011 J	0.012 J	0.012 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	21.8	32	17.8	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1890	1580	1420	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.25 J	0.26 J	0.31 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.076 J	0.07 J	0.064 J	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	154 J	578 U	560 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.17	0.33	0.15	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	28.5	23.3	26.3	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	47.1	88.9	47.2	-

TABLE 5.18

AOI 14 FORMER INCINERATOR AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*
										Duplicate		
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Petroleum Products												
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	336
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	86.2	86.6	89.3	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.18

AOI 14 FORMER INCINERATOR AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*			
Volatile Organic Compounds											
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	U	0.01 U	0.01 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	U	0.01 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	U	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	U	-	-
Semi-volatile Organic Compounds											
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	0.33 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	0.33 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	0.33 U	-
Metals											
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	18[e]	9
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	54	57
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.57	0.59
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	-	15	16
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	13	13
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	14	16
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.5 U	0.5 U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	42	80

TABLE 5.18

AOI 14 FORMER INCINERATOR AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*			
Petroleum Products											
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Total solids	%	-	-	-	-	-	-	-	-	89.88	86.04

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.19

AOI 17 SUBSTATION DRAINAGE SUMP AREA
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*
Sample Location:									*BH-17-1-00*	*BH-17-1-00*	*BH-17-2-00*	*BH-17-2A-00*	*SB-2*
Sample ID:									*S-12636-053100-DRD-029*	*S-12636-053100-DRD-030*	*S-12636-053100-DRD-035*	*S-12636-053100-DRD-031*	*SB-2 (0-2)*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/7/1996*
Sample Depth:									*(2-3) ft*	*(8-9) ft*	*(0.5-2.5) ft*	*(1-3) ft*	*(0-2) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*					
Semi-volatile Organic Compounds													
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.36 U	0.38 U	0.061 J	0.073 J	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.36 U	0.38 U	0.052 J	0.07 J	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.36 U	0.38 U	0.075 J	0.11 J	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.36 U	0.38 U	0.059 J	0.076 J	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.36 U	0.38 U	0.12 J	0.12 J	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.36 U	0.38 U	0.069 J	0.38 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.36 U	0.38 U	0.1 J	0.11 J	-
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	91.8	87.8	90.9	86.7	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft* Duplicate	*(20-21) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0049 U	0.0012 J	0.0052 U	0.0044 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0049 U	0.0048 U	0.00048 J	0.0044 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.02 U	0.019 U	0.0046 J	0.017 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	14900	15900[e]	15700[e]	12000
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	9.8	11.1	13.1	7.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	81.3	95.7	96.3	80
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.73	0.9	0.87	0.75
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.12 J	0.1 J	0.15 J
Calcium	mg/kg	-	88000	-	-	-	-	-	55700	3590	5040	56700
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	23.2	24	23.2	19.3
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.72	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.7	12.3[e]	11.9[e]	10.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	16.2	20.6	22.6	16
Iron	mg/kg	12000	27900	580000	-	-	6	-	28000[e]	32200[e]	33600[e]	24100
Lead	mg/kg	21	21	900	44000	-	700	-	8.8	12.1	13.6	9
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	20300	4430 J	4510 J	24500 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	487	579[e]	574[e]	411
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.02 J	0.033 J	0.043	0.015 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	27.8	27.8	25.6	26.9
Potassium	mg/kg	-	2300	-	-	-	-	-	2080	1730	1700	2510
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.12 J	0.41 J	0.64 J	0.31 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.13	0.1 J	0.087 J	0.092 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	493 J	597 U	366 J	573 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.19	0.25 J	0.25 J	0.23 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	38.6	42.8 J	41.4 J	32.4 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	49.5	82.1	66.2	49.3

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft*	*(20-21) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Petroleum Products												
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	83.4	83.8	84.2	87.3

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*
Sample ID:									*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*
Sample Depth:									*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Volatile Organic Compounds													
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0048 U	0.001 J	0.0048 U	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0048 U	0.0046 U	0.0048 U	0.014	0.017
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	13400	9120	6820	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	10.5	9.9	9.7	8.5	7
Barium	mg/kg	75	118	130000	150000	-	1300	-	108	64.5	190	10	73
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.74	0.48 J	0.43 J	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.13 J	0.12 J	0.082	0.088
Calcium	mg/kg	-	88000	-	-	-	-	-	59700	69600	60000	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	19.9	15.6	12.7	4.5	13
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	12.3[e]	8.4	6.3	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	17.8	13.2	10.7	7.6	12
Iron	mg/kg	12000	27900	580000	-	-	6	-	25800	18500	16300	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	10.7	8.5	6.5	4.1	10
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	22300	29400 J	29800 J	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	454	421	241	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.016 J	0.01 J	0.0068 J	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	30.7	20.6	17.1	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	2260	2020	1600	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.12 J	0.23 J	0.23 J	0.94	0.8
Silver	mg/kg	1	1	9000	2900	-	13	-	0.077 J	0.081 J	0.074 J	0.5 U	0.5 U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	322 J	564 U	576 U	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.21	0.18 J	0.12 J	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	33.7	25.3 J	19.6 J	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	54.7	48.5	34.9	25	42

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*
Sample ID:									*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*
Sample Depth:									*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***					
Petroleum Products													
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	6.6 U	11
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	82.8	88.7	86.8	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									***MW-3***	***PFW-4***	***SB-6***	***SB-7***	***SB-8***	***SB-17***
Sample ID:									***MW-3 (2-4)***	***PFW-4 1.5-3***	***SB-6 (1-3)***	***SB-7 (1-3)***	***SB-8 (1-3)***	***SB-17 (1-3)***
Sample Date:									***11/6/1996***	***3/17/1997***	***11/6/1996***	***11/6/1996***	***11/6/1996***	***11/6/1996***
Sample Depth:									***(2-4) ft***	***(1.5-3) ft***	***(1-3) ft***	***(1-3) ft***	***(1-3) ft***	***(1-3) ft***
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***						
Volatile Organic Compounds														
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	0.01 U	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	0.01 U	-	-	-	-
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	0.01 U	-	-	-	-
Metals														
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	-	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	8	-	-	-	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	51	-	-	-	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	-	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	0.67	-	-	-	-
Calcium	mg/kg	-	88000	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	-	17	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	-	-	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	13	-	-	-	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	17	-	-	-	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	-	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	-	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.1 U	-	-	-	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	-	-	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	0.5 U	-	-	-	-
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.5 U	-	-	-	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	-	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	-	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	-	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	38	-	-	-	-

TABLE 5.20

AOI 18 FORMER INACTIVE EQUIPMENT RESERVE YARD
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*MW-3*	*PFW-4*	*SB-6*	*SB-7*	*SB-8*	*SB-17*
Sample ID:									*MW-3 (2-4)*	*PFW-4 1.5-3*	*SB-6 (1-3)*	*SB-7 (1-3)*	*SB-8 (1-3)*	*SB-17 (1-3)*
Sample Date:									*11/6/1996*	*3/17/1997*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:									*(2-4) ft*	*(1.5-3) ft*	*(1-3) ft*	*(1-3) ft*	*(1-3) ft*	*(1-3) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*						
Petroleum Products														
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	396	-	384	556	U	308
General Chemistry														
Total solids	%	-	-	-	-	-	-	-	-	86.13	-	-	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.21 U	0.22 U	0.0045 U	0.01 J
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.16 J	0.15 J	0.0045 U	0.0024 J
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.21 U	0.22 U	0.0045 U	0.0013 J
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.84 U	0.87 U	0.0022 J	0.0037 J
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.14 J	0.14 J	0.0016 J	0.012 J
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	1.8	1.6	0.018 U	0.022 UJ
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.21 U	0.22 U	0.0045 U	0.0007 J
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.022 J	0.22 U	0.0045 U	0.0012 J
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.42 U	0.43 U	0.009 U	0.0024 J
Semi-volatile Organic Compounds												
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	3.7 U	0.36 U	0.38 U	1.9 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	3.7 U	0.36 U	0.38 U	1.9 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	-	1.9 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.45 J	0.36 U	0.38 U	1.9 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.55 J	0.36 U	0.38 U	1.9 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	3.7 U	0.36 U	0.38 U	1.9 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	3.7 U	0.36 U	0.38 U	1.9 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	1.2 J	0.069 J	0.38 U	0.22 J
Phenol	mg/kg	-	-	12000	18000000	-	260	-	3.7 U	0.36 U	0.38 U	1.9 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	3.7 U	0.36 U	0.38 U	1.9 U

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7170	7510	-	5590
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.8	5.9	9.6	6.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	67	58.7	38.9 J	39
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.48 J	0.39 J	0.45 J	0.31 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.18 J	0.16 J	0.14 J	0.17 J
Calcium	mg/kg	-	88000	-	-	-	-	-	45300 J	43200 J	-	38200 J
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	14.2	12.1	19	9.7
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	0.989
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	**24.6**[e]	8.1	10	5.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.6	11.7	15.9	11.8
Iron	mg/kg	12000	27900	580000	-	-	6	-	14400	15900	-	13300
Lead	mg/kg	21	21	900	44000	-	700	-	8.1	7.5	11.2	6.1
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	15300	16200	-	12700
Manganese	mg/kg	440	513	90000	1500	-	1	-	283	316	-	294
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.014 J	0.012 J	0.011 J	0.089
Nickel	mg/kg	20	26	150000	16000	-	100	-	17.3	14.7	24.4 J	11.2
Potassium	mg/kg	-	2300	-	-	-	-	-	1510	1510	-	1250
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.13 J	0.13 J	0.15 J	0.15 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.05 J	0.04 J	0.055 J	0.037 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	554 U	153 J	-	244 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.061 J	0.041 J	0.24 J	0.02 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	21.6	22.5	18.5	18.4
Zinc	mg/kg	47	70	630000	-	-	5000	-	52.6	41.2	55.2	54.2
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	90.2	90.9	88.0	88.3

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*
Sample ID:									*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.25 U	0.29 U	0.22 U	0.0027 J
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.17 J	0.13 J	0.22 U	0.0047 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.25 U	0.29 U	0.22 U	0.0047 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	1 U	1.1 U	0.89 U	0.019 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.11 J	1.5	1.3	0.019 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	1 U	0.83 J	1.7	0.019 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.25 U	0.29 U	0.22 U	0.0047 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.25 U	0.29 U	0.22 U	0.0047 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.25 U	0.29 U	0.22 U	0.0047 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.88	0.2 J	0.22 U	0.0047 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.25 U	0.29 U	0.22 U	0.0047 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.034 J	0.04 J	0.45 U	0.0095 U
Semi-volatile Organic Compounds												
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	3.5 U	85 U	0.14 J	0.38 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	3.5 U	85 U	0.12 J	0.38 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	3.5 U	85 U	0.26 J	0.38 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	3.5 U	85 U	0.18 J	0.38 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.53 J	85 U	0.14 J	0.38 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	3.5 U	85 U	0.19 J	0.38 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	3.5 U	85 U	0.13 J	0.38 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	3.5 U	85 U	0.068 J	0.38 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	3.5 U	85 U	0.06 J	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	3.5 U	85 U	0.78	0.38 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.62 J	85 U	0.21 J	0.38 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	3.5 U	85 U	0.13 J	0.38 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	3.5 U	85 U	0.48	0.38 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	3.5 U	85 U	0.22 J	0.38 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	3.5 U	85 U	0.12 J	0.38 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	3.5 U	85 U	0.068 J	0.38 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.94 J	85 U	0.37 U	0.38 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.63 J	85 U	1.2	0.38 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	3.5 U	85 U	0.058 J	0.38 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	3.5 U	85 U	0.4	0.38 U

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*
Sample ID:									*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*				
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	2050	2010	8290	8020
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.39 J	0.31 J	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	3.3	3.8	8.1	7.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	89.9	102	63.8 J	56.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.13 J	0.14 J	0.6	0.43 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.37 J	0.15 J	0.16 J	0.16 J
Calcium	mg/kg	-	88000	-	-	-	-	-	32500 J	29300 J	51500	51100 J
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	4.1	3.9	14	13.5
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.992	0.7 U	0.7 U	1.173
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	2.1	2.1	10	6.9
Copper	mg/kg	32	32	73000	59000	-	5800	-	26.4	8.7	14.3	15.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	6380	6310	18700	17000
Lead	mg/kg	21	21	900	44000	-	700	-	6.1	4.9	9	9.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	12700	8720	19900	20300
Manganese	mg/kg	440	513	90000	1500	-	1	-	155	117	336	334
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.015 J	0.036 U	0.01 J	0.013 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	4.2	4.8	19.8 J	17
Potassium	mg/kg	-	2300	-	-	-	-	-	434	349	1260 J	1870
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.11 J	0.24 J	0.25 J	0.16 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.1 J	0.051 J	0.041 J	0.048 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	145 J	204 J	557 U	216 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.53 U	0.54 U	0.16 J	0.066 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	8.9	9.2	23.6	24.3
Zinc	mg/kg	47	70	630000	-	-	5000	-	313	64.3	51.8	45.5
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	94.5	92.7	89.8	87.5

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*	*GP-1*	*GP-2*	*Q-12*
Sample ID:									*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*	*GP-1*	*GP-2*	*Q-12*
Sample Date:									*6/5/2000*	*6/2/2000*	*6/2/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:									*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*	*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*						
Volatile Organic Compounds														
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0073	0.0039 J	0.0057	-	-	U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0059 U	0.0046 U	0.0028 J	-	-	U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0059 U	0.0046 U	0.0056 U	-	-	U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.024 U	0.018 U	0.022 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/kg	-	-	2700	60000000	2700	100	53000	0.024 U	0.018 U	0.022 U	-	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.024 U	0.018 U	0.022 U	-	-	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0059 U	0.0046 U	0.0056 U	-	-	U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0059 U	0.0046 U	0.0056 U	-	-	0.0123
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0059 U	0.0046 U	0.0056 U	-	-	0.0008
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0004 J	0.0046 U	0.0056 U	-	-	U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0059 U	0.0046 U	0.0056 U	-	-	0.0008
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.012 U	0.0092 U	0.011 U	-	-	U
Semi-volatile Organic Compounds														
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.38 U	0.39 U	0.36 U	-	-	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.38 U	0.39 U	0.36 U	-	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.38 U	0.39 U	0.36 U	-	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.38 U	0.049 J	0.36 U	-	-	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.38 U	0.39 U	0.36 U	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.39 U	0.36 U	-	-	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.38 U	0.39 U	0.36 U	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.38 U	0.39 U	0.36 U	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.39 U	0.36 U	-	-	-
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.38 U	0.39 U	0.36 U	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.39 U	0.36 U	-	-	-

TABLE 5.21

AOI 19 FORMER PRESS ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*	*GP-1*	*GP-2*	*Q-12*
Sample ID:									*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*	*GP-1*	*GP-2*	*Q-12*
Sample Date:									*6/5/2000*	*6/2/2000*	*6/2/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:									*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*	*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	*Units*	*Statewide*	*Background [A]*	*IDCC [B]*	*PSIC [C]*	*SVIAIC [D]*	*IDWPC [E]*	*ISSIC [F]*						
Metals														
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	6590	9260	4030	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.2 UJ	1.2 UJ	1.1 UJ	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	7.4	7.6	5.6	8.5	6.6	5.98
Barium	mg/kg	75	118	130000	150000	-	1300	-	75.4	105 J	21.9 J	57	73	44.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.38 J	0.66	0.26 J	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.15 J	0.18 J	0.13 J	0.14	0.13	U
Calcium	mg/kg	-	88000	-	-	-	-	-	48500 J	60900	9690	-	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	12.3	13.3	8.5	14	11	11.6
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	7.7	10.4	4	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	16.8	13.7	8.6	14	13	U
Iron	mg/kg	12000	27900	580000	-	-	6	-	15300	19300	11200	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	8.8	10.4	6.6	8.8	8.1	7.2
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	19800	22600	4220	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	501	620[e]	256	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0069 J	0.0093 J	0.013 J	0.1 U	0.1 U	U
Nickel	mg/kg	20	26	150000	16000	-	100	-	16.9	23.2 J	10.2 J	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1440	1500 J	442 J	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.12 J	2.9 U	0.19 J	0.72	0.66	U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.055 J	0.038 J	0.016 J	0.5 U	0.5 U	U
Sodium	mg/kg	-	580	1000000	-	-	7000	-	215 J	584 U	541 U	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.061 J	0.21 J	0.073 J	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	20.6	25.4	13.8	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	47.2	47.7	35.5	40	39	U
General Chemistry														
Total solids	%	-	-	-	-	-	-	-	86.7	85.7	92.5	-	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.22

AOI 20 FORMER TANK ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 20*	*AOI 20*	*AOI 20*	*AOI 20*
Sample Location:									*BH-20-1-00*	*BH-20-2-00*	*BH-20-2-00*	*BH-20-3-00*
Sample ID:									*S-12636-060100-DRD-045*	*S-12636-060100-DRD-046*	*S-12636-060100-DRD-047*	*S-12636-060100-DRD-044*
Sample Date:									*6/1/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(0.33-2.33) ft*	*(0.42-3) ft*	*(7-8) ft*	*(0.66-3) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0046 U	0.0044 U	0.00088 J	0.0057 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0046 U	0.0044 U	0.0043 UJ	0.00038 J
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 U	0.017 U	0.017 UJ	0.023 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0046 U	0.0004 J	0.0043 UJ	0.0057 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0046 U	0.0044 U	0.0043 UJ	0.0041 J
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	9590	8720	4340
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.2 J	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	5.3	5.6	6.1	4.3
Barium	mg/kg	75	118	130000	150000	-	1300	-	44.4	46.6	46.3	21.4
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.48 J	0.59	0.49 J	0.18 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.13 J	0.2 J	0.17 J	0.15 J
Calcium	mg/kg	-	88000	-	-	-	-	-	-	55400	48900	2580
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	13.3	15.9	15.5	6.5
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	6.96	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	6.7	8.6	8.3	3.6
Copper	mg/kg	32	32	73000	59000	-	5800	-	11.2	14.5	14.3	7.3
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	18400	19000	8580
Lead	mg/kg	21	21	900	44000	-	700	-	7.2	14	8.2	5.5
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	24300 J	22000 J	1540 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	323	393	160
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0099 J	0.012 J	0.011 J	0.017 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	17.4	22.9	21.7	8.4
Potassium	mg/kg	-	2300	-	-	-	-	-	-	2160	1950	390
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.18 J	0.75 J	0.26 J	0.12 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.14 J	0.081 J	0.086 J	0.039 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.16 J	0.22 J	0.18 J	0.07 J
Tin	mg/kg	-	-	-	-	-	-	-	5.9	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	23.2 J	26.4 J	27 J	12.6 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	37.6	51.7	56.2	32.1
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.569 U	0.574 U	0.572 U	0.574 U
Total solids	%	-	-	-	-	-	-	-	87.8	87.2	87.4	87.1

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.22

AOI 20 FORMER TANK ROOM
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:								***AOI 20***	***AOI 20***	***AOI 20***
Sample Location:								***BH-20-4-00***	***PFW-8***	***PFW-8***
Sample ID:								***S-12636-060100-DRD-043***	***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:								***6/1/2000***	***3/19/1997***	***3/19/1997***
Sample Depth:								***(0.66-3) ft***	***(0-2) ft***	***(6-7.8) ft***
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***		
Volatile Organic Compounds										
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.019	-	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0049 U	-	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0049 U	-	0.01 U
2-Butanone (Methyl ethyl ketone)	mg/kg	-	-	27000	29000000	27000	760	35000	0.0012 J	-	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0049 U	-	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0049 U	-	0.01 U
Metals										
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	9930	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	7.2	6	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	55.8	61	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.54 J	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.15 J	0.68	-
Calcium	mg/kg	-	88000	-	-	-	-	-	54700	-	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	16.2	15	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	8	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.6	11	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	21200	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	7.7	15	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	23200 J	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	265	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.012 J	0.1 U	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	22.5	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	2360	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.28 J	0.5 U	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.091 J	0.6	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.18 J	-	-
Tin	mg/kg	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	28.1 J	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	46.8	37	-
General Chemistry										
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.44 J	-	-
Total solids	%	-	-	-	-	-	-	-	88.6	87.90	88.03

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.23

AOI 20-22 FORMER TANK ROOM AND BUILDING 44 AND 63 PIT AREAS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*
Sample Location:									*MW-5*	*MW-5*	*MW-6*	*MW-6*	*MW-7*	*MW-8*	*MW-8*	*MW-9*
Sample ID:									*MW-5 (3-5)*	*MW-5 (8-10)*	*MW-6 (3-5)*	*MW-6 (8-10)*	*MW-7 (4-6)*	*MW-8 (4-6)*	*MW-8 (8-10)*	*MW-9 (4-6)*
Sample Date:									*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:									*(3-5) ft*	*(8-10) ft*	*(3-5) ft*	*(8-10) ft*	*(4-6) ft*	*(4-6) ft*	*(8-10) ft*	*(4-6) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***								
Volatile Organic Compounds																
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	U	U	U	U	U	U	0.0058	U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	U	U	U	0.0371	0.0152	0.0541	0.0117	0.0088
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	U	U	U	U	U	0.0044	U	U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	U	U	U	U	0.0009	U	U	U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	U	U	U	U	0.0016	U	U	0.0009
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	U	U	U	U	U	U	0.0305	U
Metals																
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	7.12	5.34	5.37	4.65	6.4	4.19	6.33	8.27
Barium	mg/kg	75	118	130000	150000	-	1300	-	52.2	38.4	49.5	41	68	41.7	39.4	54.2
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	11.7	12.9	11.2	12.6	12.9	11.8	12	12
Lead	mg/kg	21	21	900	44000	-	700	-	3.72	6.92	U	3.8	5.61	103	7.45	8.89
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	U	U	0.03	U	U	U	U	U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.26	U	U	U	U	0.37	U	U
Petroleum Products																
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	U	U	U	313	360	419	U	U

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.24

AOI 21 POWERHOUSE FUEL OIL STORAGE TANKS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 21*	*AOI 21*	*AOI 21*	*AOI 21*
Sample Location:									*BH-21-1-00*	*BH-21-1-00*	*BH-21-2-00*	*PFB-21*
Sample ID:									*S-12636-053100-DRD-032*	*S-12636-053100-DRD-033*	*S-12636-053100-DRD-034*	*PFB-21 0-0.9*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*4/24/1997*
Sample Depth:									*(0-2) ft*	*(18-19) ft*	*(0.58-3) ft*	*(0-0.9) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	0.095
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	0.21
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0054 U	0.0082	0.0057 U	0.01 U
Semi-volatile Organic Compounds												
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.35 U	0.38 U	0.079 J	0.54 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.35 U	0.38 U	0.17 J	2 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.33 J	0.85 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.043 J	0.38 U	0.29 J	3.4 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.064 J	0.38 U	0.4	3.6 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.046 J	0.38 U	0.15 J	1.2 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.35 U	0.38 U	0.12 J	1.6 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.35 U	0.38 U	0.1 J	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.043 J	0.38 U	0.32 J	23
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.058 J	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.075 J	0.38 U	0.89	1.4 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.35 U	0.38 U	0.085 J	3.3 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.17 J	3 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.35 U	0.38 U	0.77	1.1 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.068 J	0.38 U	0.68	0.87 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	2910	11000	3830	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	3.9	7	6.7	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	18.9	66.1	25.2	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.14 J	0.6	0.27 J	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.098 J	0.14	0.16	-
Calcium	mg/kg	-	88000	-	-	-	-	-	16700	67500	37400	-
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	4.8	18	8.3	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	2.5	9.6	4.1	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	6	15.8	12.1	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	8230	23500	9820	-
Lead	mg/kg	21	21	900	44000	-	700	-	4.5	8	10.9	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	4170	28900	9150	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	236	294	237	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0092 J	0.01 J	0.011 J	-

TABLE 5.24

AOI 21 POWERHOUSE FUEL OIL STORAGE TANKS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 21*	*AOI 21*	*AOI 21*	*AOI 21*
Sample Location:									*BH-21-1-00*	*BH-21-1-00*	*BH-21-2-00*	*PFB-21*
Sample ID:									*S-12636-053100-DRD-032*	*S-12636-053100-DRD-033*	*S-12636-053100-DRD-034*	*PFB-21 0-0.9*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*4/24/1997*
Sample Depth:									*(0-2) ft*	*(18-19) ft*	*(0.58-3) ft*	*(0-0.9) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Nickel	mg/kg	20	26	150000	16000	-	100	-	5.9	25	10.2	-
Potassium	mg/kg	-	2300	-	-	-	-	-	260 J	2300	537	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.079 J	0.58 J	0.21 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.026 J	0.086 J	0.36	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	527 U	542 J	568 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.036 J	0.16	0.078 J	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	11.4	30.2	15	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	23.5	48.2	41.8	-
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	94.8	86.2	88.1	87.04

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])

TABLE 5.25

AOI 3 FORMER WASTE OIL USTS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:									*BH-3-1-00*	*BH-3-2-00*	*BH-3-3-00*	*BH-3-3-00*
Sample ID:									*S-12636-081400-KMV-001*	*S-12636-081400-KMV-002*	*S-12636-081400-KMV-003*	*S-12636-081400-KMV-004*
Sample Date:									*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*
Sample Depth:									*(8-9.5) ft*	*(9-10) ft*	*(8-9) ft*	*(8-9) ft*
												Duplicate
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0048 U	0.26 U	0.0044 U	0.0045 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0048 U	0.26 U	0.047	0.013
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0096 U	0.51 U	0.0089 U	0.0089 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0048 U	0.26 U	0.0044 U	0.0045 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0048 U	0.26 U	0.0044 U	0.0045 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0096 U	0.51 U	0.0089 U	0.0089 U
Metals												
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	-	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.22 U	0.23 U	0.22 U	0.33
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	5.8	9.6	6.7	5.5
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	4.2	8.1	4.8	8.5
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	-	-
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	89.5	86.2	89.1	89.6

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.25

AOI 3 FORMER WASTE OIL USTS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:									*BH-3-4-00*	*BH-3-5-00*	*BH-3-6-00*	*BH-3-7-00*
Sample ID:									*S-12636-081400-KMV-005*	*S-12636-081400-KMV-006*	*S-12636-081400-KMV-007*	*S-12636-081400-KMV-008*
Sample Date:									*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*
Sample Depth:									*(8-8.5) ft*	*(8.5-9) ft*	*(8.5-9) ft*	*(8.5-9) ft*
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0049 U	0.0044 U	0.0046 U	0.46
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0062	0.0044 U	0.0049	4.3
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0097 U	0.0088 U	0.0092 U	0.46
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0049 U	0.0044 U	0.0046 U	0.31[e]
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0049 U	0.0044 U	0.0046 U	0.87
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0097 U	0.0088 U	0.0092 U	0.48
Metals												
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	-	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.22 U	0.22 U	0.23 U	0.23 U
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	7.2	7.1	6.8	10.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	4.7	4.9	3.3	4.3
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	-	-
General Chemistry												
Total solids	%	-	-	-	-	-	-	-	90.7	89.4	88.1	86.6

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
- Value exceeds criteria identified in superscript.

TABLE 5.25

AOI 3 FORMER WASTE OIL USTS
SUMMARY OF DETECTED RESULTS IN SOIL SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 03***	***AOI 03***
Sample Location:									***BH-3-8-00***	***PFW-11***
Sample ID:									***S-12636-081400-KMV-009***	***PFW-11 0.5-1.5***
Sample Date:									***8/14/2000***	***3/20/1997***
Sample Depth:									***(8.5-9) ft***	***(0.5-1.5) ft***
Parameters:	***Units***	***Statewide***	***Background [A]***	***IDCC [B]***	***PSIC [C]***	***SVIAIC [D]***	***IDWPC [E]***	***ISSIC [F]***		
Volatile Organic Compounds										
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0062 U	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0062 U	0.01 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.012 U	0.01 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0062 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0062 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.012 U	-
Metals										
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	10
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	74
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.22 U	0.81
Chromium (Total)	mg/kg	18	19	9200	240	-	30	-	14	20
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	16
Lead	mg/kg	21	21	900	44000	-	700	-	34.5	18
Silver	mg/kg	1	1	9000	2900	-	13	-	-	0.9
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	52
General Chemistry										
Total solids	%	-	-	-	-	-	-	-	88.9	86.44

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not analyzed.
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
[ ] - Value exceeds criteria identified in superscript.

TABLE 5.26

SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:					*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:					*DSA_MW-01*	*DSA_MW-01*	*MW-14*	*MW-14*	*PFW-6*	*MW-13*	*MW-13*	*MW-13*
Sample ID:					*UNKNOWN*	*UNKNOWN*	*MW-14*	*W-8692-111496-BM-006*	*PFW-6*	*MW-13*	*W-12636-060700-KMV-504*	*W-12636-060700-KMV-505*
Sample Date:					*7/23/2002*	*7/23/2002*	*11/14/1996*	*11/14/1996*	*3/31/1997*	*11/14/1996*	*6/7/2000*	*6/7/2000*
Well Status					*Excavated*	*Excavated (Duplicate)*	*Excavated*	*Excavated (other)*	*Excavated*	*Abandoned*	*Abandoned*	*Abandoned (Duplicate)*
Parameters:	*Units*	*GCC [A]*	*IDWC [B]*	*IGVIAIC [C]*								
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	U	0.001 U	0.009	0.0007	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.013	0.013	U	0.001 U	0.004	U	0.00078 J	0.00097 J
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.003	0.003	-	0.001 U	0.001 U	-	0.001 U	0.001 U
Benzene	mg/L	11	0.005	35	0.001 U	0.001 U	-	0.005 U	0.005 U	-	0.000076 J	0.000089 J
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	U	0.001 U	0.001 U	0.0067	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	**0.65[b]**	**0.8[b]**	-	0.004	0.001 U	-	0.0005 U	0.0005 U
Naphthalene	mg/L	31	1.5	31	0.001 U	0.001 U	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	0.0011	0.001 U	0.001 U	U	0.001 U	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	0.0013	0.001 U	0.001 U	0.0011	0.00006 J	0.00006 J
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.018	0.019	U	0.001 U	0.001 U	U	0.0005 U	0.0005 U
Trichloroethene	mg/L	22	0.005	97	**1.42 J[b]**	**1.83[b]**	**0.0213[b]**	**0.006[b]**	0.001 U	**0.0084[b]**	0.001 U	0.001 U
Semi-volatile Organic Compounds												
2-Nitrophenol	mg/L	79	0.058	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-	-	-	-	-	-
Fluorene	mg/L	2	2	2	-	-	-	-	-	-	-	-
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	1	0.15	1	-	-	-	-	-	-	-	-
Metals												
Arsenic	mg/L	4.3	0.01	-	-	-	-	-	0.005 U	-	-	-
Barium	mg/L	14000	2	-	-	-	-	-	1.3	-	-	-
Barium (dissolved)	mg/L	14000	2	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	190	0.005	-	-	-	-	-	0.0005 U	-	-	-
Copper	mg/L	7400	1	-	-	-	-	-	0.025 U	-	-	-
Lead	mg/L	-	0.004	-	-	-	-	-	0.003 U	-	-	-
Selenium	mg/L	970	0.05	-	-	-	-	-	0.005 U	-	-	-
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-	-	-	-	-	-
Zinc	mg/L	110000	5	-	-	-	-	-	0.02 U	-	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
Criteria:
a - Groundwater Contact Criteria (GCC[A])
b - Industrial Drinking Water Criteria (IDWC[B])
c - Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

TABLE 5.26

SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:					*AOI 03*	*AOI 07*	*AOI 07*	*AOI 09*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:					*PFW-11*	*PFW-10*	*PFW-10*	*PFW-12*	*MW-1*	*MW-1*	*MW-2*	*MW-2*
Sample ID:					*PFW-11*	*PFW-10*	*GW-12636-101702-DD-006*	*PFW-12*	*MW-1*	*W-111496-BM-008*	*MW-2*	*W-8692-111496-SF-011*
Sample Date:					*4/1/1997*	*3/31/1997*	*10/17/2002*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*11/14/1996*
Well Status					*Existing*	*Existing*	*Existing*	*Abandoned*	*Existing*	*Existing (other)*	*Existing*	*Existing (other)*
Parameters:	*Units*	*GCC [A]*	*IDWC [B]*	*IGVIAIC [C]*								
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	-	0.001 U	U	0.001 U	U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.001 U	0.001 U	-	0.001 U	0.001	0.001 U	U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.001 U	0.001 U	-	0.001 U	-	0.001 U	-	0.001 U
Benzene	mg/L	11	0.005	35	0.005 U	0.005 U	-	0.005 U	-	0.005 U	-	0.005 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	-	0.001 U	U	0.001 U	U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.001 U	0.001 U	-	0.001 U	U	0.001 U	U	0.001 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.001 U	0.001 U	-	0.001 U	-	0.005	-	0.001 U
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	-	0.001 U	U	0.001 U	0.0005	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	-	0.001 U	0.0006	0.001 U	0.0007	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.001 U	0.001 U	-	0.001 U	0.0017	0.001 U	U	0.001 U
Trichloroethene	mg/L	22	0.005	97	0.001 U	0.001 U	-	0.001 U	0.0048	0.001 U	0.0044	0.001 U
Semi-volatile Organic Compounds												
2-Nitrophenol	mg/L	79	0.058	-	-	-	-	-	-	-	0.0018	0.005 U
Acenaphthene	mg/L	4.2	3.8	4.2	-	-	-	-	-	-	0.00016	0.005 U
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-	-	-	-	0.0007	0.005 U
Fluorene	mg/L	2	2	2	-	-	-	-	-	-	0.00014	0.005 U
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	0.00017	0.005 U
Phenanthrene	mg/L	1	0.15	1	-	-	-	-	-	-	0.0006	0.005 U
Metals												
Arsenic	mg/L	4.3	0.01	-	0.005 U	0.005 U	-	0.005 U	U	-	U	-
Barium	mg/L	14000	2	-	1.1	2.6[b]	-	1.2	U	-	0.54	-
Barium (dissolved)	mg/L	14000	2	-	-	-	0.0565	-	-	-	-	0.2 U
Cadmium	mg/L	190	0.005	-	0.0006	0.0005 U	-	0.0005 U	-	-	-	-
Copper	mg/L	7400	1	-	0.025 U	0.025 U	-	0.025 U	U	-	U	-
Lead	mg/L	-	0.004	-	0.003 U	0.004	-	0.003 U	U	-	U	-
Selenium	mg/L	970	0.05	-	0.005 U	0.005 U	-	0.005 U	U	-	U	-
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-	-	-	-	-	0.0095
Zinc	mg/L	110000	5	-	0.02 U	0.05	-	0.02 U	U	-	U	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
Criteria:
a - Groundwater Contact Criteria (GCC[A])
b - Industrial Drinking Water Criteria (IDWC[B])
c - Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

TABLE 5.26

SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:					*AOI 14*	*AOI 14*	*AOI 14*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:					*PFW-2*	*PFW-2*	*PFW-9*	*MW-4*	*MW-4*	*MW-4*	*MW-10*	*MW-10*
Sample ID:					*PFW-2*	*PFW-2D*	*PFW-9*	*MW-4*	*MW-4*	*W-12636-060700-KMV-502*	*MW-10*	*MW-10*
Sample Date:					*4/1/1997*	*4/1/1997*	*4/1/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*11/13/1996*	*11/13/1996*
Well Status					*Existing*	*Existing (Duplicate)*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (other)*
Parameters:	*Units*	*GCC [A]*	*IDWC [B]*	*IGVIAIC [C]*								
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.001 U	0.001 U	0.001 U	-	0.001 U	0.001 U	-	0.001 U
Benzene	mg/L	11	0.005	35	0.005 U	0.005 U	0.005 U	-	0.005 U	0.001 U	-	0.005 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.001 U	0.001 U	0.001 U	U	0.001 U	0.002 U	U	0.001 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.001 U	0.001 U	0.001 U	-	0.001 U	0.0005 U	-	0.001 U
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	0.001 U	0.0007	0.001 U	0.001 U	0.0006	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	0.001 U	0.0008	0.001 U	0.000063 J	0.0007	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.001 U	0.001 U	0.001 U	U	0.001 U	0.0005 U	U	0.001 U
Trichloroethene	mg/L	22	0.005	97	0.001 U	0.001 U	0.001 U	**0.0053[b]**	0.001 U	0.001 U	0.0046	0.001 U
Semi-volatile Organic Compounds												
2-Nitrophenol	mg/L	79	0.058	-	-	-	-	-	-	-	U	-
Acenaphthene	mg/L	4.2	3.8	4.2	0.005 U	-	-	-	-	-	U	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-	-	-	-	U	-
Fluorene	mg/L	2	2	2	0.005 U	-	-	-	-	-	U	-
Naphthalene	mg/L	31	1.5	31	0.005 U	-	-	-	-	-	U	-
Phenanthrene	mg/L	1	0.15	1	0.005 U	-	-	-	-	-	U	-
Metals												
Arsenic	mg/L	4.3	0.01	-	0.005 U	0.005 U	0.005 U	U	**0.016[b]**	-	U	-
Barium	mg/L	14000	2	-	0.61	0.61	0.97	0.39	0.24	-	0.26	-
Barium (dissolved)	mg/L	14000	2	-	-	-	-	-	-	-	-	0.2 U
Cadmium	mg/L	190	0.005	-	0.0005 U	0.0005 U	0.0005 U	-	0.0005 U	-	-	-
Copper	mg/L	7400	1	-	0.025 U	0.025 U	0.025 U	U	0.027	-	U	-
Lead	mg/L	-	0.004	-	0.003 U	0.003 U	**0.009[b]**	U	**0.026[b]**	-	**0.014[b]**	-
Selenium	mg/L	970	0.05	-	0.005 U	0.005 U	0.005 U	U	0.012	-	U	-
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-	-	-	-	-	0.0054
Zinc	mg/L	110000	5	-	0.02 U	0.02 U	0.02 U	U	0.02	-	U	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
Criteria:
a - Groundwater Contact Criteria (GCC[A])
b - Industrial Drinking Water Criteria (IDWC[B])
c - Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

TABLE 5.26

SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:					*AOI 15*	*AOI 15*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*Drift*
Sample Location:					*MW-10*	*PFW-5*	*MW-3*	*MW-3*	*PFW-4*	*MW-6*	*MW-6*	*MW-8*	*PFW-1*
Sample ID:					*MW-10*	*PFW-5*	*MW-3*	*W-8692-111496-SF-010*	*PFW-4*	*MW-6*	*W-111396-BM-003*	*MW-8*	*PFW-1*
Sample Date:					*4/1/1997*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*4/1/1997*	*11/13/1996*	*11/13/1996*	*11/13/1996*	*4/1/1997*
Well Status					*Abandoned*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Existing*
Parameters:	*Units*	*GCC [A]*	*IDWC [B]*	*IGVIAIC [C]*									
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U	U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U	U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.001 U	0.001 U	-	0.001 U	0.001 U	-	0.001 U	-	0.001 U
Benzene	mg/L	11	0.005	35	0.005 U	0.005 U	-	0.005 U	0.005 U	-	0.005 U	-	0.005 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	0.0088	0.001 U	0.001 U	U	0.001 U	U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U	U	0.001 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.001 U	0.001 U	-	0.001 U	0.001 U	-	0.001 U	-	0.001 U
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	U	0.001 U	0.001 U	0.0006	0.001 U	U	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	0.0005	0.001 U	0.001 U	0.0007	0.001 U	0.0014	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.001 U	0.001 U	U	0.001 U	0.001 U	U	0.001 U	U	0.001 U
Trichloroethene	mg/L	22	0.005	97	0.001 U	0.001 U	0.0038	0.001 U	0.001 U	0.0049	0.001 U	0.0047	0.001 U
Semi-volatile Organic Compounds													
2-Nitrophenol	mg/L	79	0.058	-	-	-	-	-	-	U	0.005 U	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	-	-	-	-	-	U	0.005 U	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-	-	-	U	0.005 U	-	-
Fluorene	mg/L	2	2	2	-	-	-	-	-	U	0.005 U	-	-
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	U	0.005 U	-	-
Phenanthrene	mg/L	1	0.15	1	-	-	-	-	-	U	0.005 U	-	-
Metals													
Arsenic	mg/L	4.3	0.01	-	0.005 U	0.005 U	U	0.013 [b]	0.005 U	U	-	-	0.04 [b]
Barium	mg/L	14000	2	-	1.6	0.45	0.27	0.2 U	1.6	0.34	-	-	0.55
Barium (dissolved)	mg/L	14000	2	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	190	0.005	-	0.0005 U	0.0014	-	0.0005 U	0.0005 U	-	-	-	0.0005 U
Copper	mg/L	7400	1	-	0.025 U	0.025 U	U	0.032	0.025 U	U	-	-	0.025 U
Lead	mg/L	-	0.004	-	0.003 U	0.003 U	U	0.012 [b]	0.003 U	U	-	-	0.003 U
Selenium	mg/L	970	0.05	-	0.005 U	0.005 U	U	0.01	0.005 U	U	-	-	0.005 U
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	110000	5	-	0.02 U	0.02 U	U	0.11	0.02	U	-	-	0.02 U

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
Criteria:
a - Groundwater Contact Criteria (GCC[A])
b - Industrial Drinking Water Criteria (IDWC[B])
c - Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

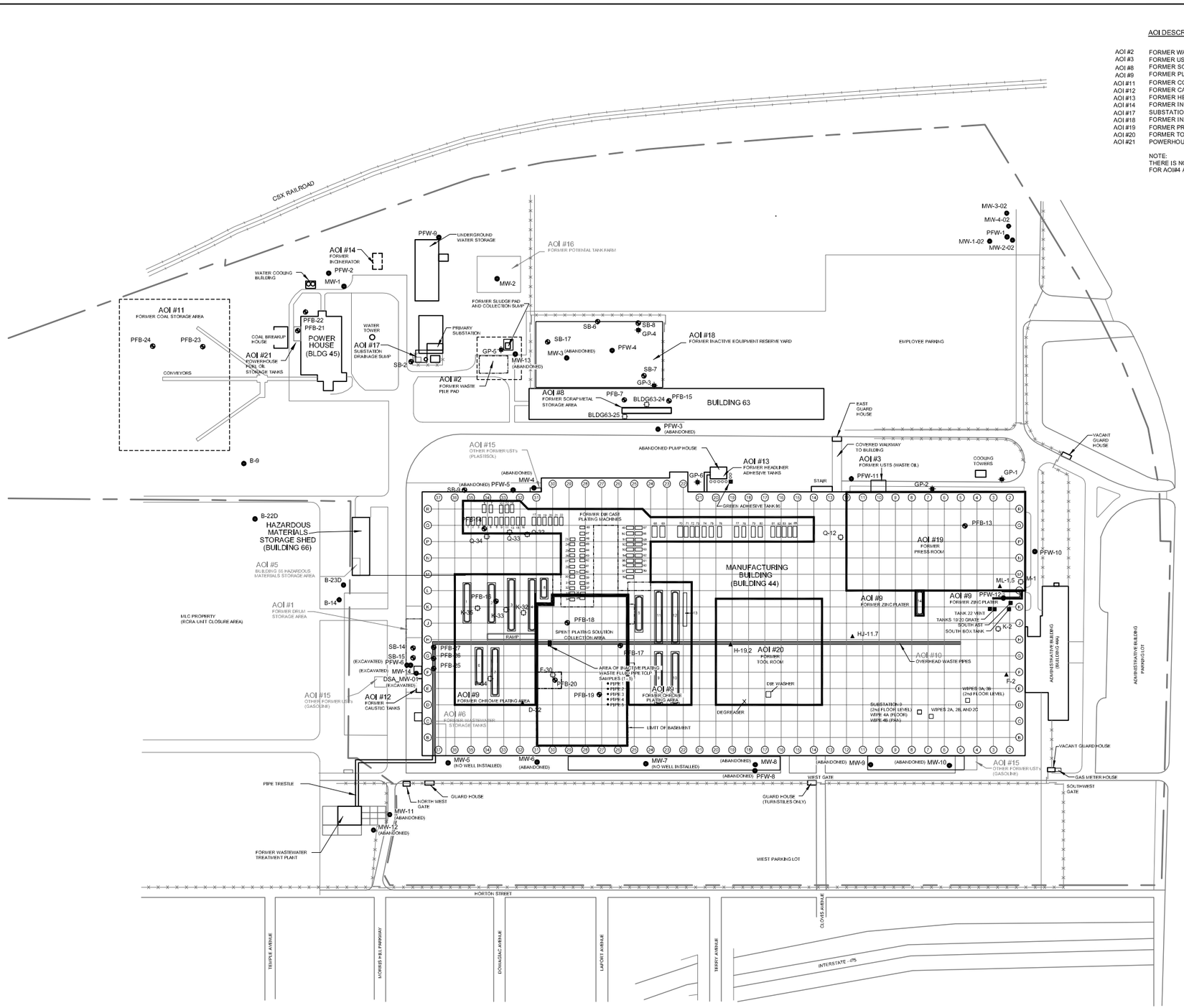
TABLE 5.26

SUMMARY OF DETECTED RESULTS IN GROUNDWATER SAMPLES
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:					*Drift*	*Drift*	*Drift*
Sample Location:					*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:					*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:					*10/8/2002*	*10/8/2002*	*10/9/2002*
Well Status					*Existing*	*Existing*	*Existing*
Parameters:	*Units*	*GCC [A]*	*IDWC [B]*	*IGVIAIC [C]*			
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.001 U	0.001 U	0.001 U
Benzene	mg/L	11	0.005	35	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.002 U	0.002 U	0.002 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.0005 U	0.0005 U	0.0005 U
Naphthalene	mg/L	31	1.5	31	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	mg/L	22	0.005	97	0.001 U	0.001 U	0.001 U
Semi-volatile Organic Compounds							
2-Nitrophenol	mg/L	79	0.058	-	-	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	-	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-
Fluorene	mg/L	2	2	2	-	-	-
Naphthalene	mg/L	31	1.5	31	-	-	-
Phenanthrene	mg/L	1	0.15	1	-	-	-
Metals							
Arsenic	mg/L	4.3	0.01	-	-	-	-
Barium	mg/L	14000	2	-	-	-	-
Barium (dissolved)	mg/L	14000	2	-	-	-	-
Cadmium	mg/L	190	0.005	-	-	-	-
Copper	mg/L	7400	1	-	-	-	-
Lead	mg/L	-	0.004	-	-	-	-
Selenium	mg/L	970	0.05	-	-	-	-
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-
Zinc	mg/L	110000	5	-	-	-	-

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
Criteria:
a - Groundwater Contact Criteria (GCC[A])
b - Industrial Drinking Water Criteria (IDWC[B])
c - Industrial Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])



N⁰	Revision	Date	Initial

NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO SCALE.
2. DRAWING No. 1795W BUICK MOTOR DIVISION SHEET No. 1M WAS USED AS A REFERENCE DRAWING.
3. LOCATIONS OF RCRA UNIT CLOSURE MONITORING WELLS (i.e. B-WELLS) ARE APPROXIMATE

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

FORMER PEREGRINE (US), INC. COLDWATER ROAD FACILITY

MLC

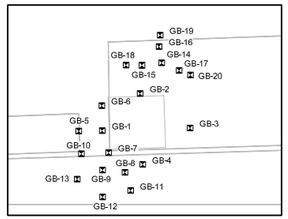
FACILITY PLAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference: RMT, INC.

Project Manager:	Reviewed By:	Date:	
G.T.	C.R.H.	AUGUST 2004	
Scale: 1"=150'	Project N⁰: 12636-40	Report N⁰: 031	Drawing N⁰: 1

12636-40(031)GN-WA023 AUG 05/2010



DETAIL
SCALE 1"=30'

AOI DESCRIPTION

AOI #2	FORMER WASTE PILE PAD
AOI #3	FORMER USTs
AOI #6	FORMER SCRAP METAL STORAGE AREA
AOI #9	FORMER PLATING AREAS
AOI #11	FORMER COAL STORAGE AREA
AOI #12	FORMER CAUSTIC TANKS
AOI #13	FORMER HEADLINER ADHESIVE TANKS
AOI #14	FORMER INCINERATOR
AOI #17	SUBSTATION DRAINAGE SUMP
AOI #18	FORMER INACTIVE EQUIPMENT RESERVE YARD
AOI #19	FORMER PRESS ROOM
AOI #20	FORMER TOOL ROOM
AOI #21	POWERHOUSE FUEL OIL STORAGE TANKS

NOTE:
THERE IS NO SPECIFIC LOCATION
FOR AOI#4 AND AOI #7.

No	Revision	Date	Initial

0 50 150ft

LEGEND

- ASPHALT LINE
- BUILDING
- CURB
- DITCH
- FENCELINE
- GRAVEL LINE
- GUARDRAIL
- RAILROAD
- ROAD
- SIDEWALK
- SHORELINE
- TRAIL
- CATCH BASIN
- FIRE HYDRANT
- MANHOLE
- TANK
- VEGETATION
- BH-18-4-00 — BOREHOLE LOCATION
- MW-1 — STUDY 2 MONITORING WELL LOCATION AND NUMBER
- PFW-1 — STUDY 4 MONITORING WELL LOCATION AND NUMBER
- B-9 — RCRA UNIT CLOSURE MONITORING WELL LOCATION AND NUMBER
- PFB-7 — STUDY 4 SOIL BORING LOCATION AND NUMBER
- SB-2 — STUDY 2 SOIL BORING LOCATION AND NUMBER
- GR1 — STUDY 1 GEOPROBE LOCATION AND NUMBER
- Q-34 — STUDY 2 GEOPROBE LOCATION AND NUMBER
- H-192 — WOOD BLOCK SAMPLE LOCATION
- WIPE 3A — WIPE SAMPLE LOCATION
- TANK 22 VENT — TCLP SAMPLE LOCATION
- SOIL SAMPLE LOCATION
- DSA_MW-1 — FORMER DRUM STORAGE AREA MONITORING WELL LOCATION AND NUMBER

NOTES:
1) Reference System:
Vertical = NAVD 1988,
Horizontal = NAD 83(1994),
Michigan South zone 2113.
2) Aerial Photo Date: 3/2/00
Date of Mapping: April 2000
3) Boreholes surveyed, received July 3, 2000.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

FORMER PEREGRINE (US), INC.
COLDWATER ROAD FACILITY

MLC

BOREHOLE AND MONITORING WELL LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
NOVA CONSULTANTS, INC. MAY 26, 2000

Project Manager:	Reviewed By:	Date:	
G. T.	R. M.	AUGUST 2004	
Scale: 1"=150'	Project No: 12636-40	Report No: 031	Drawing No: 2

12636-40(031)GN-WA019 AUG 05/2010

APPENDIX A

CLOSURE DOCUMENTATION

APPENDIX A-1

UST CLOSURE DOCUMENTATION CORRESPONDENCE AND HISTORICAL SPILL INFORMATION

CONESTOGA-ROVERS
& ASSOCIATES

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

September 25, 2000

Reference No. 12636

Mr. Suresh Thomas
Michigan Department of Environmental Quality
Waste Management Division
P.O. Box 30241
Lansing, MI 48909-7741

Dear Mr. Thomas:

Re: UST Closure Documentation
Description of Current Conditions Report - AOI 3 and AOI 15
Former Peregrine Inc. Coldwater Road Facility (Facility), Genesee Township, Michigan

The following letter supplements the Preliminary Response dated May 8, 2000 to Draft MDEQ Comments dated May 3, 2000 concerning the Description of Current Conditions (DOCC) Report. A comment was made concerning two Areas of Interest (AOI), AOI 3 – Former USTs; and AOI 15 – Other Former USTs, and the requirement to provide additional documentation for the closures of the five former USTs that were considered part of these AOIs. This letter further addresses this comment.

1.0 INTRODUCTION

AOI 3 includes two former waste oil tanks located outside along the eastern wall of Building 44 toward the south end of the building. These USTs historically received waste oil from the press room pits within the building. AOI 15 includes two former gasoline tanks, one located outside along the western wall of Building 44 toward the south end of the building near the shipping docks, and one located north of Building 44. A former plastisol tank located outside along the eastern wall of Building 44 toward the north end of the building is also part of AOI 15.

2.0 AOI 3 – FORMER WASTE OIL USTS

Two waste oil tanks (AOI 3) were removed on November 9, 1990 and discolored soils and an oily odor were apparent. Inland Fisher Guide (IFG) reported these observations to the State Fire Marshall as product releases (C-2356-90). IFG sampled the discolored soils to characterize the material for approval for disposal. Excavation of the discolored soils commenced on December 12, 1990 and then IFG sampled the sidewalls and floor to demonstrate clean closure. A letter from the Michigan Department of Natural Resources (MDNR) dated June 6, 1991 (Attachment 1) states that the sampling results did not include PCBs, BTEX, Cadmium, Lead,

and Chromium, and "once samples are obtained, your closure can be reviewed for the waste oil tanks". In recent conversations with Ms. Mollie Lamrouex (MDEQ-STD), it was discovered that MDNR's records are incomplete with respect to further action regarding the waste oil tanks. It should be noted that C-2356-90 is identified as closed in the MDEQ-STD database. A letter dated August 30, 1995 from Sedgwick James of Michigan Inc., the MUSTFA Third Party Administrator, is presented in Attachment 2. This letter indicates that a clean closure letter was received from the MDNR indicating the Facility to be a clean and closed LUST site.

An environmental investigation completed at the Facility in March 1997 included the collection of a soil sample in the vicinity of the former waste oil tanks. This sample was analyzed for metals (including cadmium, lead, and chromium) and volatiles (including BTEX). No exceedances of the Act 451, Part 201 generic industrial criteria were identified.

However, in order to document closure of this issue, REALM will conduct supplemental closure sampling in general accordance with the Act 451, Part 213 guidelines for BTEX, PCBs, cadmium, lead, and chromium. The supplemental information will be provided to MDEQ (WMD and STD divisions) upon completion.

3.0 AOI 15 – OTHER FORMER USTS

A. Gasoline Tanks

Two gasoline tanks (AOI 15) were removed on October 31, 1990 and November 1, 1990, respectively. At the time of removal, evidence of released product was noted for each tank and consequently, IFG filed a report with the State Fire Marshall (identified as NRC Report #47007 and C-2242-90). IFG removed all affected soils and subsequently sampled the sidewalls and floors to demonstrate clean closure. A letter from the MDEQ dated June 6, 1991 (Attachment 1) identifies that MDNR "concurs that remedial activities at the gasoline tanks excavation are complete". The 20-day UST release report from IFG is also presented in Attachment 3 for reference purposes. C-2356-90 is identified as closed in the MDEQ-STD database.

B. Plastisol Tank

The former plastisol UST (AOI 15) was removed on October 2, 1997. A release report was filed on October 17, 1997 (C-98Z-97). This release was based on laboratory results for one of the soil verification samples collected during the plastisol UST removal showing a level of ethylbenzene at 26 µg/kg, which is above the MDEQ detection limits but below the MDEQ leaching to groundwater criteria. No immediate response activities were conducted since the UST and associated piping were removed and no

visible and/or olfactory evidence of a release were discovered during the UST removal. All analytical results were below unrestricted residential standards.

A Closure Report for the former plastisol UST was prepared by Fluor Daniel GTI, Inc. on behalf of General Motors Corporation and submitted to MDEQ on December 30, 1997. A letter from the MDEQ concerning the closure of the plastisol tank dated January 5, 1998 is presented in Attachment 4. MDEQ did not perform a follow-up audit within the six-month timeframe and the plastisol tank has been considered clean closed in accordance with the Closure Report dated December 30, 1997 and MDEQ LUST regulations. C-98Z-97 is identified as closed in the MDEQ-STD database.

Should you have any questions on the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Glenn Turcham

GTT/cm/3
Encl.

c.c.: Cheryl Hiatt
Marilyn Dedyne
Jean Caufield

ATTACHMENT 1

MDNR LETTER CONCERNING GASOLINE AND WASTE OIL TANK CLOSURES DATED JUNE 6, 1991

NATURAL RESOURCES COMMISSION
THOMAS J ANDERSON
MARLENE J FLUHARTY
KERRY KAMMER
O STEWART MYERS
DAVID D OLSON
RAYMOND POUPORE

STATE OF MICHIGAN

JOHN ENGLER
~~JAMES J. BLANCHARD~~, Governor

DEPARTMENT OF NATURAL RESOURCES

DELBERT RECTOR
~~DAVID F. HALES~~, Director

Region III Headquarters
P.O. Box 30028, Lansing, MI 48909

June 6, 1991

Mr. Charles Haffner
Inland Fisher Guide
G.M. Corporation
G1245 E. Coldwater Rd.
Flint, MI 48559-0001

Dear Mr. Haffner:

SUBJECT: Tank Closures
Gas & Waste Oil Tanks
G-1245 E. Coldwater Rd.

In your reports to my staff, you indicated that General Motors had completed the necessary remedial activities at these sites. The Michigan Department of Natural Resources staff reviewed the data you submitted and the work performed at the facility, and concurs that remedial activities at the gasoline tanks excavation are complete. The waste oil tank requires sampling for PCB's, BTEX, Cadmium, Lead, and Chromium which were not included in your report. Once samples are obtained, your closure can be reviewed for the waste oil tanks.

The Department makes no warranty or guarantee as to the fitness of this site for any general or specific use and prospective purchasers or users of this site are advised to use due diligence in acquiring or using this site. The Michigan Department of Natural Resources reserves the right to request additional investigation and/or remedial action, pursuant to applicable regulations, should site conditions change or additional information becomes known or available.

Any further questions can be directed to Ben Hall at the address listed.

Sincerely,

Rod Mosier

Rod Mosier
Lansing District Supervisor
Environmental Response Division
517-322-5751

RDM:kl

ATTACHMENT 2

MUSTFA CLOSURE LETTER DATED AUGUST 30, 1995

Sedgwick

Sedgwick James of Michigan, Inc.
MUSTFA Third Party Administrator
3001 West Big Beaver Road, Suite 602, Troy, Michigan 48084-3164
Telephone 810 637-4263. Facsimile 810 637-4295

TO: Orland Fisher Guide
1245 E. Cobbwater Rd
Flint, Mi 48559

DATE: 8/30/95

RE: MUSTFA CLAIM #: 3611

CLOSURE LETTER

This letter is to inform you that your MUSTFA Claim is scheduled to be closed for the following reason (s):

X — Clean Closure letter received from the Department of Natural Resources (DNR) indicating your LUST site is now clean according to their plans and/or Qualified Consultant's specifications.

X — Inactivity on your MUSTFA Claim (no pending invoices).

____ — Your letter requesting closure on the file.

Based on the above information your file will be closed in 30 days unless a request is received, indicating your MUSTFA claim should remain open. If you have any questions, please feel free to call me at (810) 637-4287.

Regards,

Cecille Mangulabnan

Cecille Mangulabnan
MUSTFA Claims Representative

WPC 95-1 ATTACHMENT A

Certification of Applicability of the Substantial Harm Criteria

Facility Name INLAND FISHER GUIDE GMC

Facility Addresses 1245 EAST COLDWATER ROAD FLINT, MICHIGAN 48559

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

   Yes_____ No__X__

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitations within any aboveground oil storage tank area?

   Yes_____ No__X__

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

   Yes_____ No__X__

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance such that a discharge from the facility would shut down a public drinking water intake?

   Yes_____ No__X__

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

   Yes_____ No__X__

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature (owner/operator) Title PLANT MANAGER

Name JOHN D. HOLDEN Date FEBRUARY 7, 1995

ATTACHMENT 3

20-DAY UST RELEASE REPORT
GASOLINE AND WASTE OIL TANK CLOSURES

INLAND FISHER GUIDE
G-1245 COLDWATER ROAD
FLINT, MICHIGAN
20-DAY UST RELEASE REPORT

Chem-Met Services,Inc. of Wyandotte, Michigan, was retained by Inland Fisher Guide (IFG) for the purpose of removing underground storage tanks (UST's) from the ground on their property located at G-1245 Coldwater Road, Flint, Michigan.

Two UST's were used for storage of gasoline for company personnel. They were both of approximately 2,000-gallon capacity, and constructed of steel. One UST was located on the west side of the facility (west tank),near the shipping dock, while the other UST was located on the north side of the facility, in an area presently used for storage of parts gondolas (north tank).

Two other tanks were used for storage of waste oils generated in the facility. These were also of approximately 2,000-gallon capacity, and constructed of steel. The waste oil tanks were located on the east side of the facility (east tanks), against the building in an area used for parking.

On October 10, 1990, all tanks were rinsed with a water/emulsifier solution, and had their contents removed by a vacuum truck. These rinse waters were manifested and disposed of at Chem-Met Services.

At this point, the UST's were prepared for removal from the soil. The concrete over the tanks was broken up first. This concrete was from approximately six-inches in depth to nearly two feet.

Excavation began on October 31, 1990, on the west tank. While relieving the side of the tank, discolored soils were observed, and an odor of petroleum was also noted. When the tank was lifted out of the excavation, a hole was found on the west end of the tank, which was the end near the dispenser pump. Mr. Charles Haffner, Process Engineer for IFG, was informed at this time that this tank system must be reported of having released product to the State Fire Marshall. It was determined, however, to wait until the status of the second gasoline tank was determined, since this would be done within the 24-hour time frame that is specified for notification procedures.

The north tank was removed from the excavation on November 1, 1990. This excavation also had discolored soils and a petroleum odor, and was therefore considered to have released product from the tank system. At this time, Mr. Haffner was informed that both tank systems need to be reported. Mr. Haffner promptly complied with this requirement.

The east tanks were removed from the ground [illegible]

The soils around these tanks were visibly discolored, and an odor of oil was apparent. Mr. Haffner again made notification to the State Fire Marshall concerning these tanks.

Samples have been collected from all three excavations, and laboratory results are pending at the time of this report. The samples are being analyzed for the purpose of disposing of the contaminated soils in an appropriate landfill. Analytical parameters selected include TCLP metals, PCB's (for the soil that contains oils), BETX, and flash point.

At the time of removal, all of the UST's had been removed from service. The removal of the systems from the ground was the final phase of decommissioning these tanks. For the purposes ofpreventing any further releases from these tank systems, the actions described above have been performed. This has completely stopped any releases of product from these sources.

ATTACHMENT 4

MDEQ LETTER CONCERNING PLASTISOL TANK
CLOSURE DATED JANUARY 5, 1998

PEREGRINE
EHS
RECEIVED
97 JAN 13 10 28

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: http://www.deq.state.mi.us

RUSSELL J. HARDING, Director

10650 Bennett Drive, Morrice, MI 48857

January 5, 1998

Robert Pearce
General Motors Corporation
485 West Milwaukee Avenue
Mail Code #482-310-004
Detroit, MI 48202-3220

Dear Mr. Pearce:

SUBJECT: Closure Report Date: January 2, 1998
Confirmed Release Date: C-98Z-97
Location of Tank(s): Former Delphi Plant, Inland Fisher Guide, 1245 East Coldwater Road, Flint, Michigan
Facility ID #: 0-018297
MERA Site ID #:
MUSTFA Claim #:

In accordance with Section 21312a(2) of Part 213 Leaking Underground Storage Tanks (LUST) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, (Act 451) the Underground Storage Tank Division (USTD) of the Department of Environmental Quality (DEQ) acknowledges receipt of your closure report. This closure report was submitted on your behalf for the above referenced site by Mr. Patrick M. Conway, Certified Professional (CP) with Fluor Daniel GTI, Inc., Qualified Underground Storage Tank Consultant (QC), in accordance with Section 21312a(1) of Part 213.

The closure report submitted by the CP concludes that corrective action at the site has resulted in

- UNRESTRICTED RESIDENTIAL USE of the site based on a Tier 1 evaluation.

Please note that when contaminated soil and/or groundwater as a result of a release of a regulated substance remains on site consistent with site closure requirements, the owner/operator shall not remove or allow this soil and/or groundwater to be removed from the site to an off-site location without properly characterizing the soils and/or groundwater to determine that they can be lawfully relocated without posing a threat to the public health safety, or welfare, or the environment. The determination shall consider whether the soil and/or groundwater is subject to regulations under Part 111 of Act 451.

Under Section 21315(1) of Act 451, the USTD may initiate an audit of the results of the investigation and corrective actions undertaken to confirm the results and conclusions indicated by the QC within six months of receipt of the closure report. If an audit is initiated within this time frame, and the audit confirms that corrective action has been conducted in compliance with Part 213 and that the cleanup criteria have been met, you will be provided with a letter describing the audit and its results, as described in Section 21315(3) of Act 451. The USTD audit would consist of a review of file documents, and may include the collection of soil and/or groundwater samples from the facility to verify that the levels of remaining contaminants certified by your QC are accurate.

If you have any questions, please contact me at the telephone number below.

Sincerely,

Pamela J. Howd
Environmental Quality Analyst
Underground Storage Tank Division
517-625-4617

cc: Mr. Patrick Conway, CPG, QC
Ms. Valerie Burgess-Byrd, DS, MDEQ

CONESTOGA-ROVERS
& ASSOCIATES

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

September 25, 2000

Reference No. 12636

Mr. Suresh Thomas
Michigan Department of Environmental Quality
Waste Management Division
P.O. Box 30241
Lansing, MI 48909-7741

Dear Mr. Thomas:

Re: Historical Spill Information
Description of Current Conditions Report
Former Peregrine (US) Inc. Coldwater Road Facility, Genesee Township, Michigan

The following letter provides historical information on spills at the Former Peregrine (US) Inc. Coldwater Road Facility. This information serves to supplement the Preliminary Response to Draft MDEQ Comments dated May 3, 2000. A comment was made concerning Section 2.4 (Current and Historical Waste Management Practices) of the Description of Current Conditions (DOCC) Report. The comment states that the locations of the five significant spills mentioned in the DOCC should be considered as Areas of Interest (AOIs), if they have not yet been addressed. This letter will further respond to this preliminary comment.

The following is a list of the spill incidents at the facility in chronological order from the most recent:

1.

Date of Incident:	06/27/94
NRC Report #:	246231
Responsible Party:	General Motors Corporation
Address of Party:	1245 East Coldwater Road, Flint, MI
Reported Cause:	Natural Phenomenon
Spill Description:	Rain water passed through landfill that contained F006 leachate
Medium Affected:	Water in Brent Run (to Flint River)
Quantity Spilled:	500 gallons (F006 leachate)

2. Date of Incident: 04/28/94
NRC Report #: 237017
Responsible Party: General Motors Corporation
Address of Party: 1245 East Coldwater Road, Flint, MI
Reported Cause: Equipment Failure
Spill Description: Water lagoon/ broken pipe
Medium Affected: Land in drainage ditch
Quantity Spilled: unknown (F006 leachate)

3. Date of Incident: 04/30/92
NRC Report #: 116318
Responsible Party: General Motors Corporation
Address of Party: 1245 East Coldwater Road, Flint, MI
Reported Cause: Operator error
Spill Description: Dewatering system overfilled
Medium Affected: Land
Quantity Spilled: 1,000 gallons (F006 leachate)

4. Date of Incident: 06/13/90
NRC Report #: 26678
Responsible Party: General Motors Corporation
Address of Party: 1245 East Coldwater Road, Flint, MI
Reported Cause: Unknown
Spill Description: Unknown source and cause
Medium Affected: Water in Brent Run (to Flint River)
Quantity Spilled: 400 gallons (miscellaneous lubricating oil)

5. Date of Incident: 06/29/89
Responsible Party: General Motors Corporation
Address of Party: 1245 East Coldwater Road, Flint, MI
Reported Cause: Unknown
Spill Description: Unknown source and cause
Medium Affected: Water in Brent Run (to Flint River)
Quantity Spilled: 1200 gallons (soluble oil)

The spills that occurred in April 1992, April 1994, and June 1994 involved 1,000 gallons of leachate, 500 gallons of leachate, and an unknown quantity of wastewater at the landfill, respectively. Both the WWTP and landfill site are being addressed through separate closure

activities. These issues are outside of the scope of the Former Peregrine plant Corrective Action (CA) Program.

The spills that occurred in June 1989 and June 1990 involved a total of approximately 1600 gallons of water-soluble oil that was discharged to Hughes Drain (outfall). These spills were responded to and addressed and no further action is believed to have been necessary.

There are also three confirmed releases associated with the removal of five Underground Storage Tanks at the Facility. A list of these releases and their corresponding information is as follows:

1.
Date of Incident:	10/31/90
NRC Report #:	45939
Release #:	C-2242-90
Responsible Party:	Inland Fisher Guide Division
Address of Party:	1245 East Coldwater Road, Flint, MI
Reported Cause:	Equipment failure
Spill Description:	Discovered corrosion leaks during removal of two USTs
Medium Affected:	Subsurface
Quantity Spilled:	unknown (automotive gasoline)

2.
Date of Incident:	11/08/90
NRC Report #:	47007
Release #:	C-2356-90
Responsible Party:	Inland Fisher Guide Division
Address of Party:	1245 East Coldwater Road, Flint, MI
Reported Cause:	Operator Error
Spill Description:	Storage tank overfilled
Medium Affected:	Land/ground
Quantity Spilled:	100 gallons (metal working oil)

3.
Date of Incident:	10/17/97
Release #:	C-98Z-97
Responsible Party:	Inland Fisher Guide Division
Address of Party:	1245 East Coldwater Road, Flint, MI
Reported Cause:	Equipment failure
Spill Description:	Removal of plastisol UST
Medium Affected:	Subsurface

Each of these releases are currently identified as "closed" in the MDEQ-STD LUST database.

These releases/closures are further addressed in the letter titled "UST Closure Documentation" dated September 25, 2000.

Should you have any questions on the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Glenn Turchan

NM/cm/5
Encl.

c.c.: Cheryl Hiatt
Marilyn Dedyne
Jean Caufield

APPENDIX A-2

MARCH 24, 2005 MDEQ FINAL CLOSURE CERTIFICATION LETTER

JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

STEVEN E. CHESTER
DIRECTOR

4966/32223 # 2

cc: AJF, WVP, JMI
SLC

March 24, 2005

CERTIFIED MAIL

Mr. Robert Metcalf
Project Manager, GM Remediation Team
NAO Flint Operations
Mail Code 485-118-230
General Motors Corporation
902 East Leith Street
Flint, Michigan 48550

Dear Mr. Metcalf:

SUBJECT: Final Closure Certification Documentation
REALM Coldwater Road Landfill; MID 005 356 860

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the Final Closure Certification Documentation (Reports) provided by O'Brien & Gere Engineers, Inc. (O'Brien & Gere), and Roy F. Weston, Inc. The Reports span the years from 1998 to 2005 and provide documentation for closure of the federal Resource Conservation and Recovery Act of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984 (RCRA), regulated units, Solid Waste Management Units, Corrective Action Areas, and the Remaining Materials Area at the Coldwater Road Landfill (Facility). A detailed breakdown of each unit and the associated Report(s) along with the status of each unit is included in Table 1: Coldwater Road Closure Documentation (Table 1), attached herein. The Reports were reviewed for compliance with Waste Management Division (now WHMD) Order No. 64-05-92, effective October 29, 1992, and Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Based on this review, the Reports are acceptable as certification of closure for the Facility with the following stipulation:

The *Addendum to the June 1999 Closure Certification Report for the Former Drum Storage Area* (January 24, 2005, O'Brien & Gere) is acceptable with the following comments:

1. **Section 2.2.2 Ground water investigation** - The reference to Groundwater Not in an Aquifer (GWNIAA) is inappropriate and inaccurate. The DEQ denied the GWNIAA argument for the Facility. Further discussions of the GWNIAA results are not included in Section 3 of the document.

2. **Section 4.1 Migration pathway evaluation, Migration to ground water in an aquifer based on ingestion** - The reference to GWNIAA is inappropriate and inaccurate. The GWNIAA argument was rejected by the DEQ and cannot be

relied on to eliminate the drinking water pathway due to potential contamination of the drift aquifer by perched groundwater at the former Drum Storage Area (DSA). However, through implementation of the Interim Remedial Measures, impacted source material at the former DSA was removed, that combined with the lack of groundwater accumulation in the excavation is sufficient to demonstrate compliance with the Generic Industrial/Residential Drinking Water Protection Criteria for the DSA.

Facility Status

With the acceptance of the certification of closure for the regulated hazardous waste management units with the exception of the Landfill, the Facility can no longer be operated as a hazardous waste treatment, storage, or disposal facility. If hazardous waste is generated at the Facility, it must be managed in accordance with all applicable requirements in Part 3, Generators of Hazardous Waste, of the Administrative Rules for Part 111.

The WHMD plans to call in a Postclosure Operating License in the near future for the Landfill. Until the Facility operates the Landfill under a Postclosure Operating License, the Facility will continue to operate the Landfill in accordance with the current Postclosure Plan and Order No. 64-05-92.

Financial Capability

Remediation and Liability Management Company, Inc. (REALM), demonstrates financial assurance for closure of the Facility by use of a financial test. In accordance with R 299.9703(5) of the Administrative Rules for Part 111, this acceptance of the final Closure Certification constitutes a release from the requirement to maintain such financial assurance. REALM is no longer required to demonstrate the required coverage with updated financial test information.

REALM demonstrates financial responsibility for pollution legal liability coverage for the Facility by use of a financial test. In accordance with R 299.9710(16) of the Administrative Rules for Part 111, this acceptance of the final Closure Certification constitutes a release from the requirement to maintain such financial responsibility. REALM is no longer required to demonstrate the required coverage with updated financial test information.

REALM demonstrates financial assurance for postclosure of the Facility by use of a financial test. Because long-term monitoring and maintenance of the Hazardous Waste Landfill Unit are required, REALM must continue to maintain financial assurance for postclosure care.

Corrective Action Responsibilities

This acceptance of the certification of closure for the regulated units does not constitute a release from any corrective action responsibilities REALM may have under Part 111 or the RCRA. In addition to the responsibility to close the regulated units, REALM is obligated to conduct corrective action for releases of contaminants from waste management units.

Under Order No. 64-05-92, REALM was required to perform corrective action at the Facility for specific waste management units. A list of the units requiring corrective action and additional units not specifically addressed in Order No. 64-05-92 are listed in the attached Table 1. The WHMD has reviewed the documentation associated with each of the units (reference Table 1) demonstrating corrective action. The WHMD has determined REALM demonstrated all of the corrective action work required under Order No. 64-05-92 and R 299.9629 of the Administrative Rules for Part 111, for the units referenced in Table 1, has been successfully completed. Based on currently known information on conditions for the units referenced in Table 1 at the Facility, the WHMD does not expect that any additional investigation or remediation will be necessary for the units referenced in Table 1 at the Facility, contingent upon the following conditions being met:

1. A WHMD-approved Notice of Approved Environmental Remediation (NAER) encompassing the entire property, consistent with provisions of Section 324.20120b(2) of Part 201, Environmental Remediation, of Act 451, is recorded and maintained with the Genesee County Register of Deeds.

2. A WHMD-approved Restrictive Covenant for the Landfill and Remaining Materials Area of the property, consistent with provisions of Section 324.20120b(4) of Part 201, is recorded and maintained with the Genesee County Register of Deeds.

3. The NAER and Restrictive Covenant must be recorded with the Genesee County Register of Deeds within 90 days of receipt of this letter. Proof of such recording, along with a copy of the NAER and Restrictive Covenant, must be sent to the WHMD within 14 days of the recording.

The WHMD does not extend the "No Further Action" determination to the area of the former Wastewater Treatment Plant (WWTP). This action is based upon the *Former Wastewater Treatment Plant Basin Investigation Report* (November 24, 2000, O'Brien & Gere) supplied to the WHMD. The investigation was conducted by REALM on a voluntary basis to support no further action as part of demolition of the WWTP and surrounding basins. As summarized in the Report, soil and groundwater exceedances were detected in concentrations above applicable Part 201 criteria. The facility's demonstration of no further action for the area does not meet the requirements specified in Parts 111 and 201. Therefore, all soil and groundwater exceedances of the applicable Part 201 criteria must be addressed in compliance with corrective action regulations R 299.9629 of Administrative Rules for Part 111. REALM may address the exceedances in an interim measure or under corrective action in a Postclosure Operating License.

In addition, the WHMD reserves the right to require further corrective action, at a later date, if new information or subsequent analysis indicates that a release or threat of release of a hazardous waste at or from the facility poses a threat to public health, safety, welfare, or the environment.

If you have any questions, please contact Mr. Richard Conforti, of the Hazardous Waste Section, WHMD, at 517-241-2108.

Sincerely,

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

Attachment
cc/att: Ms. Liane Shekter Smith, DEQ
Mr. Stephen Buda, DEQ
Mr. Steve Sliver, DEQ
Mr. John McCabe, DEQ
Mr. Joe Rogers, DEQ
Mr. William Yocum, DEQ
Mr. Richard Conforti, DEQ
HWP C&E File

Department of Environmental Quality
Waste and Hazardous Materials Division
Table 1
Coldwater Road Closure Documentation

Name	Type	Closure Documentation	Status
Drum Storage Area	RCRA	Final Closure Certification Report - Drum Storage Area and Waste Pile Pad (Roy F. Weston 6/30/99); Addendum to the June 1999 Closure Certification Report for the Former Drum Storage Area (O'Brien & Gere 1/24/05)	Closure Certification Accepted
Landfill	RCRA	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	Closure Certification Accepted, Postclosure Operating License Application not called in yet.
Settling Lagoons	RCRA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00) and Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	Closure Certification Accepted
Sludge Drying Beds	RCRA	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	Closure Certification Accepted
Waste Pile Pad	RCRA	Final Closure Certification Report - Drum Storage Area and Waste Pile Pad (Roy F. Weston 6/30/99)	Closure Certification Accepted
Area North of Sludge Lakes	SWMU	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Decontamination Pits	SWMU	Final Closure Certification Documentation Package, Decontamination Pits and Sump Chromium Reduction Basins at WWTP (Roy F. Weston 10/27/98); Subsurface Investigation of Decontamination Pits and Sumps, and Chromium Reduction Basins (O'Brien & Gere 6/11/99)	No Further Action Required at this time.
Former Landfarm Area	SWMU	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Sludge Lakes	SWMU	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Sludge Retention Basin	SWMU	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Chrome Reduction Basin	CAA	Final Closure Certification Documentation Package, Decontamination Pits and Sump Chromium Reduction Basins at WWTP (Roy F. Weston 10/27/98); Subsurface Investigation of Decontamination Pits and Sumps, and Chromium Reduction Basins (O'Brien & Gere 6/11/99)	No Further Action Required at this time.
Daniel's Property	CAA	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Former Wastewater Treatment Plant	CAA	Former Wastewater Treatment Plant Basin Investigation (O'Brien & Gere 11/30/00)	Further Evaluation Required at this time.
Haul Road Area	CAA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Klein Street Right of Way	CAA	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Railroad Area	CAA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Wetlands Area	CAA	Part II Final Closure Certification Documentation (Roy F. Weston 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Construction-related Landfarm Area	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
East Area	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Miscellaneous Clean Area	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Stabilized Materials Area	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
Stockpiled Materials	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II (O'Brien & Gere 1/17/02); Revisions to Part I and Part II (O'Brien & Gere 2/1/02)	No Further Action Required at this time.
West Area	RMA	Part I Final Closure Certification Documentation (O'Brien & Gere 11/30/00); Revisions to Part I and Part II, (O'Brien & Gere 1/17/02); Revisions to Part I and Part II, (O'Brien & Gere 2/1/02)	No Further Action Required at this time.

Notes:
RCRA denotes Resource Conservation and Recovery Act regulated unit
SWMU denotes Solid Waste Management Unit
CAA denotes Corrective Action Area
RMA denotes Remaining Materials Area

APPENDIX B

HISTORICAL ANALYTICAL RESULTS

APPENDIX B-1

SOIL ANALYTICAL RESULTS

APPENDIX B.1
BACKGROUND
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***Background***	***Background***	***Background***	***Background***
Sample Location:									***BK-1-00***	***BK-1-00***	***BK-2-00***	***BK-2-00***
Sample ID:									***S-12636-052400-DRD-003***	***S-12636-052400-DRD-004***	***S-12636-052400-KMV-001***	***S-12636-052400-KMV-002***
Sample Date:									***5/24/2000***	***5/24/2000***	***5/24/2000***	***5/24/2000***
Sample Depth:									***(3) ft***	***(7) ft***	***(4) ft***	***(10) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	15100	9370	10400	9160
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	9.9	8	8.8	7.9
Barium	mg/kg	75	118	130000	150000	-	1300	-	89.6	93.2	76.7	54.6
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.61	0.5	0.5	0.41
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.15	0.13	0.15
Calcium	mg/kg	-	88000	-	-	-	-	-	30800	56800	46000	60400
Chromium	mg/kg	18	19	9200	240	-	30	-	15.7	13.7	14.6	12.3
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.6	8.6	7.3	7.2
Copper	mg/kg	32	32	73000	59000	-	5800	-	14.3	13.5	13.7	12.5
Iron	mg/kg	12000	27900	580000	-	-	6	-	27900	20800	21100	19200
Lead	mg/kg	21	21	900	44000	-	700	-	9.6	8.1	9.7	10.3
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	15000	23900	20100	22800
Manganese	mg/kg	440	513	90000	1500	-	1	-	457	396	378	302
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.014 J	0.011 J	0.029 J	0.0095 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	22.5	20.6	18.7	16.5
Potassium	mg/kg	-	2300	-	-	-	-	-	1720 J	1740 J	1750 J	1610 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.31 J	0.25 J	0.35 J	0.23 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.082 J	0.074 J	0.12 J	0.056 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	564 U	567 U	564 U	578 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.16	0.17	0.19	0.16
Vanadium	mg/kg	-	39	5500	-	-	990	-	38.8 J	26.5 J	28.6 J	25.7 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	54.1	50.3	51.9	46.3
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.564 U	0.567 U	0.564 U	0.578 U
Total solids	%	-	-	-	-	-	-	-	88.6	88.3	88.7	86.5

APPENDIX B.1
BACKGROUND
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*Background*	*Background*	*Background*	*Background*
Sample Location:		*BK-3-00*	*BK-3-00*	*BK-4-00*	*BK-4-00*
Sample ID:		*S-12636-052500-DRD-005*	*S-12636-052500-DRD-006*	*S-12636-052500-DRD-007*	*S-12636-052500-DRD-008*
Sample Date:		*5/25/2000*	*5/25/2000*	*5/25/2000*	*5/25/2000*
Sample Depth:		*(5) ft*	*(11) ft*	*(5) ft*	*(10) ft*
Parameters:	*Units*				
Metals					
Aluminum	mg/kg	8400	9730	9950	8270
Antimony	mg/kg	0.22 UJ	0.23 UJ	0.22 UJ	0.22 UJ
Arsenic	mg/kg	8.4	5.5	11	6.4
Barium	mg/kg	54.8	56	66	51.2
Beryllium	mg/kg	0.5	0.44	0.56	0.36
Cadmium	mg/kg	0.16	0.17	0.17	0.13
Calcium	mg/kg	58500	60500	47200	66600
Chromium	mg/kg	14.1	13.3	16.4	11.4
Chromium VI (hexavalent)	mg/kg	0.7 U	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	8.2	8.4	7.3	7.5
Copper	mg/kg	13.3	11.7	15.2	10.7
Iron	mg/kg	19800	20100	21600	18900
Lead	mg/kg	7.5	7.8	9	6.6
Magnesium	mg/kg	21900	25100	20100	29500
Manganese	mg/kg	350	383	389	397
Mercury	mg/kg	0.01 J	0.011 J	0.012 J	0.013 J
Nickel	mg/kg	20.5	19.2	20.3	16
Potassium	mg/kg	1350 J	2090 J	1800 J	1780 J
Selenium	mg/kg	0.25 J	0.32 J	0.35 J	0.32 J
Silver	mg/kg	0.063 J	0.091 J	0.12 J	0.072 J
Sodium	mg/kg	580	202 J	198 J	544 U
Thallium	mg/kg	0.18	0.18	0.17	0.17
Vanadium	mg/kg	25 J	27.9 J	27.3 J	24.1 J
Zinc	mg/kg	46.4	42.9	58.6	35.5
General Chemistry					
Cyanide (total)	mg/kg	0.55 U	0.565 U	0.552 U	0.544 U
Total solids	%	90.8	88.5	90.6	91.9

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:									*DSA_MW-01*	*GB-1*	*GB-2*	*GB-2*	*GB-3*	*GB-4*	*GB-5*	*GB-5*
Sample ID:									*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:									*5/10/2002*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*5/10/2002*	*5/10/2002*
Sample Depth:									*(24-25) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(14-16) ft*	*(14-15) ft*	*(19-20) ft*
									Excavated	*Excavated*	*Excavated*	*Excavated*		*Excavated*		
											Duplicate					
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*								
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	mg/kg	-	-	440	530000	33	6.4	120	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.06 U	-	-	-	-	-	0.06 U	0.06 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2,3-Trichloropropane	mg/kg	-	-	830	-	-	2.4	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2,4-Trimethylbenzene	mg/kg	-	-	110	36000000	110	2.1	25000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,3,5-Trimethylbenzene	mg/kg	-	-	94	36000000	94	1.8	19000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.06 U	0.05 B	0.05 B	0.05 B	0.05 B	0.05 B	0.06 U	0.06 U
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.3 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 U	0.3 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	-	-	500	2100000	500	9.3	1500	0.06 U	-	-	-	-	-	0.06 U	0.06 U
2-Phenylbutane (sec-Butylbenzene)	mg/kg	-	-	8000	-	-	4.6	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
4-Chlorotoluene	mg/kg	-	-	-	-	-	-	-	0.06 U	-	-	-	-	-	0.06 U	0.06 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Bromobenzene	mg/kg	-	-	760	240000	580	1.5	540	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.3 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.3 U	0.3 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Chlorobromomethane	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.06 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 UJ	0.06 UJ
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.06 U	0.82	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Cymene (p-Isopropyltoluene)	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Dibromomethane	mg/kg	-	-	2000	-	-	4.6	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:									*DSA_MW-01*	*GB-1*	*GB-2*	*GB-2*	*GB-3*	*GB-4*	*GB-5*	*GB-5*
Sample ID:									*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:									*5/10/2002*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*5/10/2002*	*5/10/2002*
Sample Depth:									*(24-25) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(14-16) ft*	*(14-15) ft*	*(19-20) ft*
									Excavated	*Excavated*	*Excavated*	*Excavated*		*Excavated*		
											Duplicate					
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***								
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	150000000(	1700	270	63000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.3 U	**0.3 B[e]**	**0.3 B[e]**	**0.3 B[e]**	**0.3 B[e]**	**0.3 B[e]**	0.3 U	0.3 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
N-Butylbenzene	mg/kg	-	-	8000	-	-	4.6	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
N-Propylbenzene	mg/kg	-	-	8000	590000	-	4.6	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
tert-Butylbenzene	mg/kg	-	-	8000	-	-	4.6	-	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.06 U	**6.72[e]**	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	170000000(	560	150	110000	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.06 U	0.06 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-	-	-	-
Volatile Organic Compounds - SPLP																
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds																
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:									*DSA_MW-01*	*GB-1*	*GB-2*	*GB-2*	*GB-3*	*GB-4*	*GB-5*	*GB-5*
Sample ID:									*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:									*5/10/2002*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*8/1/2000*	*5/10/2002*	*5/10/2002*
Sample Depth:									*(24-25) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(9-11) ft*	*(14-16) ft*	*(14-15) ft*	*(19-20) ft*
									Excavated	*Excavated*	*Excavated*	*Excavated*		*Excavated*		
											Duplicate					
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***								
Metals																
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	-	-	-	-	-	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	-	11.1 J	12 J	11.9 J	12.5 J	11.6 J	-	-
Chromium III (trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	11.1 J	12 J	11.9 J	12.5 J	11.6 J	-	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	1 U	1 U	1 U	1 U	1 U	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	-	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	7.6	7.7	7.8	7	7.4	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	-	-	-	-	-	-	-
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	-	-	-	-	-	-
Pesticides																
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-	-	-	-
General Chemistry																
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-6*	*GB-6*	*GB-6*	*GB-7*	*GB-7*	*GB-8*	*GB-9*	*GB-10*	*GB-10*	*GB-14*	*GB-14*	*GB-15*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*GB-14 (10-12')*	*GB-14 (10-12')*	*GB-15 (5-7')*
Sample Date:		*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*11/26/2002*	*11/26/2002*	*11/26/2002*
Sample Depth:		*(14-15) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(10-12) ft*	*(10-12) ft*	*(5-7) ft*
		Excavated	*Excavated*	*Excavated*	*Excavated*	*Excavated*			*Duplicate*		*Excavated*	*Excavated*	*Excavated*
		Duplicate									*Duplicate*		
Parameters:	*Units*												
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1,1-Trichloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1,2-Trichloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1-Dichloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1-Dichloroethene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,1-Dichloropropene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2,3-Trichlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2,3-Trichloropropane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2,4-Trimethylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2-Dichlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2-Dichloroethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,2-Dichloropropane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,3,5-Trimethylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,3-Dichlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,3-Dichloropropane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
1,4-Dichlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
2,2-Dichloropropane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
4-Chlorotoluene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Bromobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Bromodichloromethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Bromoform	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	-	-	-
Bromomethane (Methyl bromide)	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	-	-	-
Carbon tetrachloride	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Chlorobenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Chlorobromomethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Chloroethane	mg/kg	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	0.06 UJ	-	-	-
Chloroform (Trichloromethane)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Chloromethane (Methyl chloride)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.06 U	0.06 U	0.06 U	0.3	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
cis-1,3-Dichloropropene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Cymene (p-Isopropyltoluene)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Dibromochloromethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Dibromomethane	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-6*	*GB-6*	*GB-6*	*GB-7*	*GB-7*	*GB-8*	*GB-9*	*GB-10*	*GB-10*	*GB-14*	*GB-14*	*GB-15*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*GB-14 (10-12')*	*GB-14 (10-12')*	*GB-15 (5-7')*
Sample Date:		*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*11/26/2002*	*11/26/2002*	*11/26/2002*
Sample Depth:		*(14-15) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(10-12) ft*	*(10-12) ft*	*(5-7) ft*
		Excavated	*Excavated*	*Excavated*	*Excavated*	*Excavated*			*Duplicate*		*Excavated*	*Excavated*	*Excavated*
		Duplicate									*Duplicate*		
Parameters:	***Units***												
Dichlorodifluoromethane (CFC-12)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Ethylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
m&p-Xylene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Methylene chloride	mg/kg	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	-	-	-
Naphthalene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
N-Butylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
N-Propylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
o-Xylene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Styrene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
tert-Butylbenzene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Tetrachloroethene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Toluene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
trans-1,2-Dichloroethene	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.06 U	0.06 U	0.06 U	1.51[2]	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Vinyl chloride	mg/kg	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	-	-	-
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds - SPLP													
Trichloroethene	mg/L	-	-	-	0.019	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds													
Acenaphthene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-6*	*GB-6*	*GB-6*	*GB-7*	*GB-7*	*GB-8*	*GB-9*	*GB-10*	*GB-10*	*GB-14*	*GB-14*	*GB-15*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*GB-14 (10-12')*	*GB-14 (10-12')*	*GB-15 (5-7')*
Sample Date:		*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*5/10/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*6/4/2002*	*11/26/2002*	*11/26/2002*	*11/26/2002*
Sample Depth:		*(14-15) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(19-20) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(14-15) ft*	*(10-12) ft*	*(10-12) ft*	*(5-7) ft*
		Excavated	*Excavated*	*Excavated*	*Excavated*	*Excavated*			*Duplicate*		*Excavated*	*Excavated*	*Excavated*
		Duplicate									*Duplicate*		
Parameters:	***Units***												
Metals													
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
Total PCBs	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	87.3	86.9	87.5

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-16*	*GB-17*	*MW-14*	*PFB-25*	*PFB-25*	*PFB-26*	*PFB-26*	*PFW-6*	*SB-14*	*SB-15*
Sample ID:		*GB-16 (5-7')*	*GB-17 (5-7')*	*MW-14 (3-5)*	*PFB-25 6.3-7.8*	*PFB-25 8-10*	*PFB-26 8-10*	*PFB-26 10-12*	*PFW-6 3-5*	*SB-14 (1-3)*	*SB-15 (1-3)*
Sample Date:		*11/26/2002*	*11/26/2002*	*11/6/1996*	*4/24/1997*	*4/24/1997*	*4/25/1997*	*4/25/1997*	*3/18/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(5-7) ft*	*(5-7) ft*	*(3-5) ft*	*(6.3-7.8) ft*	*(8-10) ft*	*(8-10) ft*	*(10-12) ft*	*(3-5) ft*	*(1-3) ft*	*(1-3) ft*
			Excavated	*Excavated*					*Excavated*		
Parameters:	***Units***										
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	U	0.01 U	0.01 U	0.01 U	0.01 U	0.024 U	U	U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.029 U	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0063 U	-	-
1,1-Dichloroethane	mg/kg	-	-	0.0017	0.01 U	0.01 U	0.01 U	0.01 U	0.014 U	U	U
1,1-Dichloroethene	mg/kg	-	-	U	0.01 U	0.01 U	0.01 U	0.01 U	0.013 U	U	U
1,1-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.012 U	-	-
1,2-Dichloroethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.012 U	-	-
1,2-Dichloropropane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-
1,3,5-Trimethylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.021 U	-	-
1,3-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.019 U	-	-
2,2-Dichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.025 U	-	-
2-Chlorotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/kg	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	-	-
Bromobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.017 U	-	-
Bromoform	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.018 U	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
Carbon tetrachloride	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.012 U	-	-
Chlorobenzene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.03 U	-	-
Chlorobromomethane	mg/kg	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	U	0.01 U	0.01 U	0.01 U	0.01 U	0.0078 U	U	U
Chloromethane (Methyl chloride)	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.11	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0091 U	-	-
Cymene (p-Isopropyltoluene)	mg/kg	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
Dibromomethane	mg/kg	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-16*	*GB-17*	*MW-14*	*PFB-25*	*PFB-25*	*PFB-26*	*PFB-26*	*PFW-6*	*SB-14*	*SB-15*
Sample ID:		*GB-16 (5-7')*	*GB-17 (5-7')*	*MW-14 (3-5)*	*PFB-25 6.3-7.8*	*PFB-25 8-10*	*PFB-26 8-10*	*PFB-26 10-12*	*PFW-6 3-5*	*SB-14 (1-3)*	*SB-15 (1-3)*
Sample Date:		*11/26/2002*	*11/26/2002*	*11/6/1996*	*4/24/1997*	*4/24/1997*	*4/25/1997*	*4/25/1997*	*3/18/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(5-7) ft*	*(5-7) ft*	*(3-5) ft*	*(6.3-7.8) ft*	*(8-10) ft*	*(8-10) ft*	*(10-12) ft*	*(3-5) ft*	*(1-3) ft*	*(1-3) ft*
			Excavated	*Excavated*					*Excavated*		
Parameters:	***Units***										
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
Ethylbenzene	mg/kg	-	-	U	0.01 U	0.01 U	0.01 U	0.01 U	0.15	U	U
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/kg	-	-	-	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	-	-
Methylene chloride	mg/kg	-	-	0.0114	0.01 U	0.01 U	0.01 U	0.01 U	0.019 U	U	U
Naphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-
N-Butylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
o-Xylene	mg/kg	-	-	-	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	0.0013	0.01 U	0.01 U	0.01 U	0.01 U	0.017 U	U	0.0016
Toluene	mg/kg	-	-	0.001	0.01 U	0.01 U	0.01 U	0.01 U	0.009 U	0.0027	0.0011
trans-1,2-Dichloroethene	mg/kg	-	-	0.0047	0.01 U	0.01 U	0.01 U	0.01 U	0.0052	U	U
trans-1,3-Dichloropropene	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0063 U	-	-
Trichloroethene	mg/kg	0.06 U	0.06 U	2.21[c]	0.01 U	0.01 U	0.01 U	0.01 U	1.6[c]	U	0.0863
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.013 U	-	-
Vinyl chloride	mg/kg	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	-	-
Xylene (total)	mg/kg	-	-	U	-	-	-	-	-	U	0.001
Volatile Organic Compounds - SPLP											
Trichloroethene	mg/L	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds											
Acenaphthene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-

APPENDIX B.1
AOI 01
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*	*AOI 01*
Sample Location:		*GB-16*	*GB-17*	*MW-14*	*PFB-25*	*PFB-25*	*PFB-26*	*PFB-26*	*PFW-6*	*SB-14*	*SB-15*
Sample ID:		*GB-16 (5-7')*	*GB-17 (5-7')*	*MW-14 (3-5)*	*PFB-25 6.3-7.8*	*PFB-25 8-10*	*PFB-26 8-10*	*PFB-26 10-12*	*PFW-6 3-5*	*SB-14 (1-3)*	*SB-15 (1-3)*
Sample Date:		*11/26/2002*	*11/26/2002*	*11/6/1996*	*4/24/1997*	*4/24/1997*	*4/25/1997*	*4/25/1997*	*3/18/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(5-7) ft*	*(5-7) ft*	*(3-5) ft*	*(6.3-7.8) ft*	*(8-10) ft*	*(8-10) ft*	*(10-12) ft*	*(3-5) ft*	*(1-3) ft*	*(1-3) ft*
			Excavated	*Excavated*					*Excavated*		
Parameters:	***Units***										
Metals											
Arsenic	mg/kg	-	-	-	-	-	-	-	6	-	-
Barium	mg/kg	-	-	-	-	-	-	-	49	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	0.7	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	15	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	12	-	-
Lead	mg/kg	-	-	-	-	-	-	-	16	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	0.1 U	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	0.5 U	-	-
Silver	mg/kg	-	-	-	-	-	-	-	0.5 U	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	40	-	-
Pesticides											
Total PCBs	mg/kg	-	-	-	-	-	-	-	0.33 U	-	-
General Chemistry											
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-
Total solids	%	87.5	86.7	-	88.87	88.47	97.77	91.05	87.17	-	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0046 U	-	-	0.0048 U	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0046 U	-	-	0.0048 U	-
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0046 U	-	-	0.0048 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0031 J	-	-	0.0048 U	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0012 J	-	-	0.0048 U	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0046 U	-	-	0.0048 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.0093 U	-	-	0.0097 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0046 U	-	-	0.0048 U	-
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0046 U	-	-	0.0048 U	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0046 U	-	-	0.0048 U	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0046 U	-	-	0.0048 U	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0046 U	-	-	0.0048 U	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0046 U	-	-	0.0048 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.019 U	-	-	0.019 U	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.019 U	-	-	0.019 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.019 U	-	-	0.019 U	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.019 U	-	-	0.019 U	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0046 U	-	-	0.0048 U	-
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0046 U	-	-	0.0048 U	-
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0046 U	-	-	0.0048 U	-
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.0093 U	-	-	0.0097 U	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0046 U	-	-	0.0048 U	-
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0046 U	-	-	0.0048 U	-
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0046 U	-	-	0.0048 U	-
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0093 U	-	-	0.0097 U	-
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0046 U	-	-	0.0048 U	-
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.0093 U	-	-	0.0097 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0023 U	-	-	0.0024 U	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	0.0048 U	-
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0093 U	-	-	0.0097 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0046 U	-	-	0.0048 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	500000000	1700	270	63000	0.0093 U	-	-	0.0097 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0046 U	-	-	0.0048 U	-
Ethylene oxide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0046 U	-	-	0.0048 U	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.0093 U	-	-	0.0097 U	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0093 U	-	-	0.0097 U	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.019 U	-	-	0.019 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0046 U	-	-	0.0048 U	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0046 U	-	-	0.0048 U	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0046 U	-	-	0.0048 U	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0046 U	-	-	0.0048 U	-
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0023 U	-	-	0.0024 U	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	0.0048 U	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0046 U	-	-	0.0048 U	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	700000000	560	150	110000	0.0093 U	-	-	0.0097 U	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	1300000000	550	550	210000	0.0046 U	-	-	0.0048 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.0093 U	-	-	0.0097 U	-
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0093 U	-	-	0.0097 U	-
Semi-volatile Organic Compounds													
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.37 U	-	-	0.37 U	-
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.37 U	-	-	0.37 U	-
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.37 U	-	-	0.37 U	-
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.37 U	-	-	0.37 U	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	1.8 U	-
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.37 U	-	-	0.37 U	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.37 U	-	-	0.37 U	-
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.37 U	-	-	0.37 U	-
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.37 U	-	-	0.37 U	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.37 U	-	-	0.37 U	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	1.8 U	-
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.37 U	-	-	0.37 U	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.8 U	-	-	1.8 U	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	1.8 U	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.8 U	-	-	1.8 U	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.37 U	-	-	0.37 U	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.37 U	-	-	0.37 U	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	1.8 U	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	1.8 U	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.37 U	-	-	0.37 U	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.37 U	-	-	0.37 U	-
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	-	-	-	-	-
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.37 U	-	-	0.37 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.37 U	-	-	0.37 U	-
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.056 U	-	-	0.056 U	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.09 J	-	-	0.37 U	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.085 J	-	-	0.37 U	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.12 J	-	-	0.37 U	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.063 J	-	-	0.37 U	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.041 J	-	-	0.37 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.37 U	-	-	0.37 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.37 U	-	-	0.37 U	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.37 U	-	-	0.37 U	-
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.37 U	-	-	0.37 U	-
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.37 U	-	-	0.37 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.074 J	-	-	0.37 U	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.37 U	-	-	0.37 U	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.37 U	-	-	0.37 U	-
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.37 U	-	-	0.37 U	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.37 U	-	-	0.37 U	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.37 U	-	-	0.37 U	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.37 U	-	-	0.37 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.18 J	-	-	0.37 U	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.37 U	-	-	0.37 U	-
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.37 U	-	-	0.37 U	-
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.37 U	-	-	0.37 U	-
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.37 U	-	-	0.37 U	-
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	-	-	0.11 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.37 U	-	-	0.37 U	-
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.37 U	-	-	0.37 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.37 U	-	-	0.37 U	-
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.37 U	-	-	0.37 U	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.37 U	-	-	0.37 U	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.37 U	-	-	0.37 U	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.37 U	-	-	0.37 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.12 J	-	-	0.37 U	-
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.37 U	-	-	0.37 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.16 J	-	-	0.37 U	-
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7540	-	-	9060	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.22 UJ	-	-	0.23 UJ	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.9	5.22 J	5.51 J	61[be]	6.83 J
Barium	mg/kg	75	118	130000	150000	-	1300	-	59.4	-	-	118	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.38	-	-	0.53	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.15	-	-	1.1	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:									*BH-2-2-00*	*BH-2-2-02*	*BH-2-2-02*	*BH-2-3-00*	*BH-2-3-02*
Sample ID:									*S-12636-052600-DRD-009*	*S-12636-062702-DD-040*	*S-12636-062702-DD-041*	*S-12636-052600-DRD-010*	*S-12636-062702-DD-043*
Sample Date:									*5/26/2000*	*6/27/2002*	*6/27/2002*	*5/26/2000*	*6/27/2002*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
											Duplicate	*Excavated*	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Calcium	mg/kg	-	88000	-	-	-	-	-	53200	-	-	56900	-
Chromium	mg/kg	18	19	9200	240	-	30	-	11.6	-	-	26	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	-	-	0.7 U	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	6.7	-	-	8.5	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.3	-	-	199	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	21000	-	-	22100	-
Lead	mg/kg	21	21	900	44000	-	700	-	10	-	-	26.5	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	18000	-	-	20500	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	511	-	-	757[e]	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.016 J	-	-	0.02 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	19.6	-	-	263[e]	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1490 J	-	-	1770 J	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.3 J	-	-	0.71	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.074 J	-	-	0.43 J	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	321 J	-	-	564 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.17	-	-	0.47	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	24 J	-	-	28.2 J	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	120	-	-	3950	-
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.037 UJ	-	-	0.037 U	-
Petroleum Products													
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.558 U	-	-	0.564 U	-
Percent moisture	%	-	-	-	-	-	-	-	-	15.5	25.4	-	16.9
Total solids	%	-	-	-	-	-	-	-	89.6	-	-	88.7	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:		*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*GP-5*	*MW-13*
Sample ID:		*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*GP-5*	*MW-13 (4-6)*
Sample Date:		*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-4) ft*	*(4-6) ft*
					Duplicate		
Parameters:	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	0.0104
1,1,2,2-Tetrachloroethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,1,2-Trichloroethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,1-Dichloroethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	0.0338
1,1-Dichloroethene	mg/kg	-	-	0.0011 J	0.0047 U	0.01 U	U
1,2,4-Trichlorobenzene	mg/kg	-	-	0.0043 U	0.0047 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	0.0087 U	0.0094 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,2-Dichlorobenzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,2-Dichloroethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,2-Dichloropropane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,3-Dichlorobenzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
1,4-Dichlorobenzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	0.017 U	0.019 U	0.1 U	-
2-Hexanone	mg/kg	-	-	0.017 U	0.019 U	0.1 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	0.017 U	0.019 U	0.1 U	-
Acetone	mg/kg	-	-	0.017 U	0.019 U	0.1 U	-
Benzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Bromodichloromethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Bromoform	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Bromomethane (Methyl bromide)	mg/kg	-	-	0.0087 U	0.0094 U	0.01 U	-
Carbon disulfide	mg/kg	-	-	0.0043 U	0.0047 U	0.1 U	-
Carbon tetrachloride	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Chlorobenzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Chloroethane	mg/kg	-	-	0.0087 U	0.0094 U	0.01 U	-
Chloroform (Trichloromethane)	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	U
Chloromethane (Methyl chloride)	mg/kg	-	-	0.0087 U	0.0094 U	0.01 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	0.0022 U	0.0024 U	0.01 U	-
cis-1,3-Dichloropropene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Cyclohexane	mg/kg	-	-	0.0087 U	0.0094 U	-	-
Dibromochloromethane	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	0.0087 U	0.0094 U	-	-
Ethylbenzene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	U
Ethylene oxide	mg/kg	-	-	-	-	1 U	-
Isopropyl benzene	mg/kg	-	-	0.0043 U	0.0047 U	-	-
Methyl acetate	mg/kg	-	-	0.0087 U	0.0094 U	-	-
Methyl cyclohexane	mg/kg	-	-	0.0087 U	0.0094 U	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	0.017 U	0.019 U	0.1 U	-
Methylene chloride	mg/kg	-	-	0.0043 U	0.0047 U	0.017	0.0667
Styrene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Tetrachloroethene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	U

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:		*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*GP-5*	*MW-13*
Sample ID:		*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*GP-5*	*MW-13 (4-6)*
Sample Date:		*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft* *Duplicate*	*(0-4) ft*	*(4-6) ft*
Parameters:	***Units***						
Toluene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	U
trans-1,2-Dichloroethene	mg/kg	-	-	0.0022 U	0.0024 U	0.01 U	U
trans-1,3-Dichloropropene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	-
Trichloroethene	mg/kg	-	-	0.0043 U	0.0047 U	0.01 U	U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	0.0087 U	0.0094 U	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	0.0043 U	0.0047 U	-	-
Vinyl chloride	mg/kg	-	-	0.0087 U	0.0094 U	0.01 U	-
Xylene (total)	mg/kg	-	-	0.0087 U	0.0094 U	0.03 U	U
Semi-volatile Organic Compounds							
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	0.39 U	0.39 U	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2,4-Dichlorophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2,4-Dimethylphenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2,4-Dinitrophenol	mg/kg	-	-	1.9 U	1.9 U	-	-
2,4-Dinitrotoluene	mg/kg	-	-	0.39 U	0.39 U	-	-
2,6-Dinitrotoluene	mg/kg	-	-	0.39 U	0.39 U	-	-
2-Chloronaphthalene	mg/kg	-	-	0.39 U	0.39 U	-	-
2-Chlorophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2-Methylnaphthalene	mg/kg	-	-	0.39 U	0.39 U	-	-
2-Methylphenol	mg/kg	-	-	0.39 U	0.39 U	-	-
2-Nitroaniline	mg/kg	-	-	1.9 U	1.9 U	-	-
2-Nitrophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	1.9 U	1.9 U	-	-
3-Nitroaniline	mg/kg	-	-	1.9 U	1.9 U	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	1.9 U	1.9 U	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	0.39 U	0.39 U	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	0.39 U	0.39 U	-	-
4-Chloroaniline	mg/kg	-	-	0.39 U	0.39 U	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	0.39 U	0.39 U	-	-
4-Methylphenol	mg/kg	-	-	0.39 U	0.39 U	-	-
4-Nitroaniline	mg/kg	-	-	1.9 U	1.9 U	-	-
4-Nitrophenol	mg/kg	-	-	1.9 U	1.9 U	-	-
Acenaphthene	mg/kg	-	-	0.068 J	0.39 U	-	-
Acenaphthylene	mg/kg	-	-	0.39 U	0.39 U	-	-
Acetonitrile	mg/kg	-	-	-	-	0.1 U	-
Acetophenone	mg/kg	-	-	0.39 U	0.39 U	-	-
Anthracene	mg/kg	-	-	0.19 J	0.05 J	-	-
Atrazine	mg/kg	-	-	0.059 U	0.059 U	-	-
Benzaldehyde	mg/kg	-	-	0.39 U	0.39 U	-	-
Benzo(a)anthracene	mg/kg	-	-	0.34 J	0.098 J	-	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:		*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*GP-5*	*MW-13*
Sample ID:		*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*GP-5*	*MW-13 (4-6)*
Sample Date:		*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft* Duplicate	*(0-4) ft*	*(4-6) ft*
Parameters:	***Units***						
Benzo(a)pyrene	mg/kg	-	-	0.27 J	0.09 J	-	-
Benzo(b)fluoranthene	mg/kg	-	-	0.31 J	0.11 J	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	0.12 J	0.39 U	-	-
Benzo(k)fluoranthene	mg/kg	-	-	0.12 J	0.39 U	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	0.39 U	0.39 U	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	0.39 U	0.39 U	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	0.39 U	0.39 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	0.39 U	0.39 U	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	0.39 U	0.39 U	-	-
Caprolactam	mg/kg	-	-	0.39 U	0.39 U	-	-
Carbazole	mg/kg	-	-	0.39 U	0.39 U	-	-
Chrysene	mg/kg	-	-	0.26 J	0.08 J	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	0.39 U	0.39 U	-	-
Dibenzofuran	mg/kg	-	-	0.39 U	0.39 U	-	-
Diethyl phthalate	mg/kg	-	-	0.39 U	0.39 U	-	-
Dimethyl phthalate	mg/kg	-	-	0.39 U	0.39 U	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	0.39 U	0.39 U	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	0.39 U	0.39 U	-	-
Fluoranthene	mg/kg	-	-	0.71	0.22 J	-	-
Fluorene	mg/kg	-	-	0.07 J	0.39 U	-	-
Hexachlorobenzene	mg/kg	-	-	0.39 U	0.39 U	-	-
Hexachlorobutadiene	mg/kg	-	-	0.39 U	0.39 U	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	0.39 U	0.39 U	-	-
Hexachloroethane	mg/kg	-	-	0.12 U	0.12 U	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	0.14 J	0.39 U	-	-
Isophorone	mg/kg	-	-	0.39 U	0.39 U	-	-
Naphthalene	mg/kg	-	-	0.39 U	0.39 U	-	-
Nitrobenzene	mg/kg	-	-	0.39 U	0.39 U	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	0.39 U	0.39 U	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	0.39 U	0.39 U	-	-
Pentachlorophenol	mg/kg	-	-	0.39 U	0.39 U	-	-
Phenanthrene	mg/kg	-	-	0.55	0.13 J	-	-
Phenol	mg/kg	-	-	0.39 U	0.39 U	-	-
Pyrene	mg/kg	-	-	0.58	0.21 J	-	-
Metals							
Aluminum	mg/kg	-	-	7080	7390	-	-
Antimony	mg/kg	-	-	0.23 UJ	0.24 UJ	-	-
Arsenic	mg/kg	5.23 J	5.51 J	8	6.5	3.5	-
Barium	mg/kg	-	-	49.1	55	64	-
Beryllium	mg/kg	-	-	0.38	0.41	-	-
Cadmium	mg/kg	-	-	0.2	0.22	0.12	-

APPENDIX B.1
AOI 02
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*	*AOI 02*
Sample Location:		*BH-2-6-02*	*BH-2-7-02*	*BH-2-1-00*	*BH-2-1-00*	*GP-5*	*MW-13*
Sample ID:		*S-12636-062702-DD-049*	*S-12636-062702-DD-051*	*S-12636-052600-DRD-011*	*S-12636-052600-DRD-012*	*GP-5*	*MW-13 (4-6)*
Sample Date:		*6/27/2002*	*6/27/2002*	*5/26/2000*	*5/26/2000*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-4) ft*	*(4-6) ft*
					Duplicate		
Parameters:	***Units***						
Calcium	mg/kg	-	-	31900	38000	-	-
Chromium	mg/kg	-	-	11.8	17	14	-
Chromium VI (hexavalent)	mg/kg	-	-	0.7 U	0.7 U	-	-
Cobalt	mg/kg	-	-	6.6	6.4	-	-
Copper	mg/kg	-	-	10.5	21.4	16	-
Iron	mg/kg	-	-	16100	17800	-	-
Lead	mg/kg	-	-	8.8	11.9	10	-
Magnesium	mg/kg	-	-	10400	13100	-	-
Manganese	mg/kg	-	-	474	442	-	-
Mercury	mg/kg	-	-	0.047 J	0.022 J	0.1 U	-
Nickel	mg/kg	-	-	16.3	20.8	-	-
Potassium	mg/kg	-	-	1080 J	1190 J	-	-
Selenium	mg/kg	-	-	0.22 J	0.22 J	0.5 U	-
Silver	mg/kg	-	-	0.052 J	0.076 J	0.5 U	-
Sodium	mg/kg	-	-	272 J	589 U	-	-
Thallium	mg/kg	-	-	0.12	0.12	-	-
Vanadium	mg/kg	-	-	20.9 J	22.7 J	-	-
Zinc	mg/kg	-	-	55.5	155	49	-
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	0.039 U	0.039 U	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	0.039 U	0.039 U	-	-
Petroleum Products							
Diesel fuel	mg/kg	-	-	-	-	6.6 U	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	0.586 U	0.589 U	-	-
Percent moisture	%	17.7	11.6	-	-	-	-
Total solids	%	-	-	85.3	84.9	-	-

APPENDIX B.1
AOI 03
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:									*BH-3-1-00*	*BH-3-2-00*	*BH-3-3-00*	*BH-3-3-00*	*BH-3-4-00*
Sample ID:									*S-12636-081400-KMV-001*	*S-12636-081400-KMV-002*	*S-12636-081400-KMV-003*	*S-12636-081400-KMV-004*	*S-12636-081400-KMV-005*
Sample Date:									*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*
Sample Depth:									*(8-9.5) ft*	*(9-10) ft*	*(8-9) ft*	*(8-9) ft*	*(8-8.5) ft*
												Duplicate	
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0048 U	0.26 U	0.047	0.013	0.0062
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,2,4-Trimethylbenzene	mg/kg	-	-	110	36000000	110	2.1	25000	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,3,5-Trimethylbenzene	mg/kg	-	-	94	36000000	94	1.8	19000	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.0096 U	0.51 U	0.0089 U	0.0089 U	0.0097 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0096 U	0.51 U	0.0089 U	0.0089 U	0.0097 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.0096 U	0.51 U	0.0089 U	0.0089 U	0.0097 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0024 U	0.13 U	0.0022 U	0.0022 U	0.0024 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	.500000000(	1700	270	63000	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.019 U	1 U	0.018 U	0.018 U	0.019 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0024 U	0.13 U	0.0022 U	0.0022 U	0.0024 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0048 U	0.26 U	0.0044 U	0.0045 U	0.0049 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	.700000000(	560	150	110000	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.0096 U	0.51 U	0.0089 U	0.0089 U	0.0097 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0096 U	0.51 U	0.0089 U	0.0089 U	0.0097 U

APPENDIX B.1
AOI 03
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:									*BH-3-1-00*	*BH-3-2-00*	*BH-3-3-00*	*BH-3-3-00*	*BH-3-4-00*
Sample ID:									*S-12636-081400-KMV-001*	*S-12636-081400-KMV-002*	*S-12636-081400-KMV-003*	*S-12636-081400-KMV-004*	*S-12636-081400-KMV-005*
Sample Date:									*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*
Sample Depth:									*(8-9.5) ft*	*(9-10) ft*	*(8-9) ft*	*(8-9) ft*	*(8-8.5) ft*
												Duplicate	
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Metals													
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	-	-	-	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.22 U	0.23 U	0.22 U	0.33	0.22 U
Chromium	mg/kg	18	19	9200	240	-	30	-	5.8	9.6	6.7	5.5	7.2
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	4.2	8.1	4.8	8.5	4.7
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	-	-	-	-
Silver	mg/kg	1	1	9000	2900	-	13	-	-	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	-	-	-	-
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.038 U	0.037 U	0.037 U	0.036 U
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	89.5	86.2	89.1	89.6	90.7

APPENDIX B.1
AOI 03
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:		*BH-3-5-00*	*BH-3-6-00*	*BH-3-7-00*	*BH-3-8-00*	*PFW-11*
Sample ID:		*S-12636-081400-KMV-006*	*S-12636-081400-KMV-007*	*S-12636-081400-KMV-008*	*S-12636-081400-KMV-009*	*PFW-11 0.5-1.5*
Sample Date:		*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*	*3/20/1997*
Sample Depth:		*(8.5-9) ft*	*(8.5-9) ft*	*(8.5-9) ft*	*(8.5-9) ft*	*(0.5-1.5) ft*
Parameters:	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	mg/kg	0.0044 U	0.0046 U	0.46	0.0062 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
1,1,2-Trichloroethane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
1,1-Dichloroethane	mg/kg	0.0044 U	0.0049	4.3	0.0062 U	0.01 U
1,1-Dichloroethene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
1,2,4-Trimethylbenzene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	0.01 U
1,2-Dichloroethane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
1,2-Dichloropropane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
1,3,5-Trimethylbenzene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	-
1,3-Dichlorobenzene	mg/kg	-	-	-	-	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	-	-	0.01 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	0.1 U
Benzene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Bromodichloromethane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Bromoform	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	0.0088 U	0.0092 U	0.45 U	0.012 U	0.01 U
Carbon tetrachloride	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Chlorobenzene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Chloroethane	mg/kg	0.0088 U	0.0092 U	0.46	0.012 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	0.0088 U	0.0092 U	0.45 U	0.012 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.0022 U	0.0023 U	0.11 U	0.0031 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Dibromochloromethane	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	-	0.01 U
Ethylbenzene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
m&p-Xylene	mg/kg	-	-	-	-	0.03 U
Methyl tert butyl ether (MTBE)	mg/kg	0.018 U	0.018 U	0.9 U	0.025 U	-
Methylene chloride	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
o-Xylene	mg/kg	-	-	-	-	0.03 U
Styrene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	-
Tetrachloroethene	mg/kg	0.0044 U	0.0046 U	**0.31**[e]	0.0062 U	0.01 U
Toluene	mg/kg	0.0044 U	0.0046 U	0.87	0.0062 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	0.0022 U	0.0023 U	0.11 U	0.0031 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Trichloroethene	mg/kg	0.0044 U	0.0046 U	0.23 U	0.0062 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	-	0.01 U
Vinyl chloride	mg/kg	0.0088 U	0.0092 U	0.45 U	0.012 U	0.01 U
Xylene (total)	mg/kg	0.0088 U	0.0092 U	0.48	0.012 U	-

APPENDIX B.1
AOI 03
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*	*AOI 03*
Sample Location:		*BH-3-5-00*	*BH-3-6-00*	*BH-3-7-00*	*BH-3-8-00*	*PFW-11*
Sample ID:		*S-12636-081400-KMV-006*	*S-12636-081400-KMV-007*	*S-12636-081400-KMV-008*	*S-12636-081400-KMV-009*	*PFW-11 0.5-1.5*
Sample Date:		*8/14/2000*	*8/14/2000*	*8/14/2000*	*8/14/2000*	*3/20/1997*
Sample Depth:		*(8.5-9) ft*	*(8.5-9) ft*	*(8.5-9) ft*	*(8.5-9) ft*	*(0.5-1.5) ft*
Parameters:	*Units*					
Metals						
Arsenic	mg/kg	-	-	-	-	10
Barium	mg/kg	-	-	-	-	74
Cadmium	mg/kg	0.22 U	0.23 U	0.23 U	0.22 U	0.81
Chromium	mg/kg	7.1	6.8	10.3	14	20
Copper	mg/kg	-	-	-	-	16
Lead	mg/kg	4.9	3.3	4.3	34.5	18
Mercury	mg/kg	-	-	-	-	0.1 U
Selenium	mg/kg	-	-	-	-	0.5 U
Silver	mg/kg	-	-	-	-	0.9
Zinc	mg/kg	-	-	-	-	52
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1254 (PCB-1254)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
Aroclor-1260 (PCB-1260)	mg/kg	0.037 U	0.037 U	0.38 U	0.037 U	-
General Chemistry						
Total solids	%	89.4	88.1	86.6	88.9	86.44

APPENDIX B.1
AOI 07
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*
Sample Location:									*M-1*	*M-1*	*M-1*	*P-28*	*PFB-13*	*PFB-14*	*PFW-10*	*Q-32*
Sample ID:									*M-1 (6-8)*	*M-1 (8-10)*	*M-1 (8-10)*	*P-28*	*PFB-13 2.9-3.5*	*PFB-14 4.7-5.4*	*PFW-10 2.1-2.7*	*Q-32*
Sample Date:									*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*3/24/1997*	*3/25/1997*	*3/20/1997*	*11/6/1996*
Sample Depth:									*(6-8) ft*	*(8-10) ft*	*(8-10) ft (other)*	*-*	*(2.9-3.5) ft*	*(4.7-5.4) ft*	*(2.1-2.7) ft*	*-*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***								
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	0.1 U	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	0.1 U	0.1 U	0.1 U	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	0.1 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	0.1 U	-	-	-	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	0.1 U	-	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	0.1 U	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	-	-	-	-	0.01 U	0.01 U	0.01 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0013	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	0.03 U	0.03 U	0.03 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0193	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	0.03 U	0.03 U	0.03 U	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	0.01 U	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Toluene	mg/kg	-	-	250	12000000	250	16	3300	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	U	U	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	1700000000	560	150	110000	-	-	-	-	0.01 U	0.01 U	0.01 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	-	-	0.01 U	-	0.01 U	0.01 U	0.01 U	-
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.014	U	0.03 U	-	-	-	-	-

APPENDIX B.1
AOI 07
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*	*AOI 07*
Sample Location:									*M-1*	*M-1*	*M-1*	*P-28*	*PFB-13*	*PFB-14*	*PFW-10*	*Q-32*
Sample ID:									*M-1 (6-8)*	*M-1 (8-10)*	*M-1 (8-10)*	*P-28*	*PFB-13 2.9-3.5*	*PFB-14 4.7-5.4*	*PFW-10 2.1-2.7*	*Q-32*
Sample Date:									*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*3/24/1997*	*3/25/1997*	*3/20/1997*	*11/6/1996*
Sample Depth:									*(6-8) ft*	*(8-10) ft*	*(8-10) ft (other)*	*-*	*(2.9-3.5) ft*	*(4.7-5.4) ft*	*(2.1-2.7) ft*	*-*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***								
Semi-volatile Organic Compounds																
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	U	0.33 U	0.4	0.33 U	U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	-	-	-	U	0.33 U	0.33 U	0.33 U	U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	-	-	-	U	0.33 U	0.45	0.33 U	U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	-	-	-	U	0.33 U	0.33 U	0.33 U	U
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-	0.33 U	0.46	0.33 U	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-	0.33 U	1.3	0.33 U	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	-	-	-	-	0.33 U	0.33 U	0.33 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-	0.33 U	1.3	0.33 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-	0.33 U	1.4	0.33 U	-
Metals																
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.81	4.3	6.8	-	10	10	4.4	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	72.6	43.4	100	-	110	55	37	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	U	U	0.17	-	0.67	0.86	0.05 U	-
Chromium	mg/kg	18	19	9200	240	-	30	-	13.7	12.8	9.3	-	24	17	11	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	U	U	21	-	14	17	6.3	-
Lead	mg/kg	21	21	900	44000	-	700	-	8.07	8.98	11	-	17	18	11	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	U	U	0.1 U	-	0.1 U	0.1 U	0.1 U	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	U	U	0.54	-	0.5 U	0.5 U	0.5 U	-
Silver	mg/kg	1	1	9000	2900	-	13	-	U	U	0.5 U	-	0.5 U	1	0.5 U	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	U	U	41	-	58	52	31	-
Pesticides																
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	U	-	-	-	U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	U	-	-	-	U
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	U	0.33 U	0.33 U	0.33 U	U
Petroleum Products																
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	505	-	-	-	576
General Chemistry																
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	81.50	87.46	84.84	-

APPENDIX B.1
AOI 07
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 07***	***AOI 07***
Sample Location:		***Q-33***	***Q-34***
Sample ID:		***Q-33***	***Q-34***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***-***	***-***
Parameters:	***Units***		
Volatile Organic Compounds			
1,1,1-Trichloroethane	mg/kg	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-
1,1,2-Trichloroethane	mg/kg	-	-
1,1-Dichloroethane	mg/kg	-	-
1,1-Dichloroethene	mg/kg	-	-
1,2-Dichlorobenzene	mg/kg	-	-
1,2-Dichloroethane	mg/kg	-	-
1,2-Dichloropropane	mg/kg	-	-
1,3-Dichlorobenzene	mg/kg	-	-
1,4-Dichlorobenzene	mg/kg	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-
2-Hexanone	mg/kg	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-
Acetone	mg/kg	-	-
Benzene	mg/kg	-	-
Bromodichloromethane	mg/kg	-	-
Bromoform	mg/kg	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-
Carbon disulfide	mg/kg	-	-
Carbon tetrachloride	mg/kg	-	-
Chlorobenzene	mg/kg	-	-
Chloroethane	mg/kg	-	-
Chloroform (Trichloromethane)	mg/kg	-	-
Chloromethane (Methyl chloride)	mg/kg	-	-
cis-1,2-Dichloroethene	mg/kg	-	-
cis-1,3-Dichloropropene	mg/kg	-	-
Dibromochloromethane	mg/kg	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-
Ethylbenzene	mg/kg	-	-
m&p-Xylene	mg/kg	-	-
Methylene chloride	mg/kg	-	-
o-Xylene	mg/kg	-	-
Styrene	mg/kg	-	-
Tetrachloroethene	mg/kg	-	-
Toluene	mg/kg	-	-
trans-1,2-Dichloroethene	mg/kg	-	-
trans-1,3-Dichloropropene	mg/kg	-	-
Trichloroethene	mg/kg	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-
Vinyl chloride	mg/kg	-	-
Xylene (total)	mg/kg	-	-

APPENDIX B.1
AOI 07
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 07***	***AOI 07***
Sample Location:		***Q-33***	***Q-34***
Sample ID:		***Q-33***	***Q-34***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***-***	***-***
Parameters:	***Units***		
Semi-volatile Organic Compounds			
Acenaphthene	mg/kg	-	-
Acenaphthylene	mg/kg	-	-
Anthracene	mg/kg	-	-
Benzo(a)anthracene	mg/kg	U	0.0326
Benzo(a)pyrene	mg/kg	U	0.0261
Benzo(b)fluoranthene	mg/kg	U	0.0406
Benzo(g,h,i)perylene	mg/kg	-	-
Benzo(k)fluoranthene	mg/kg	U	0.0131
Chrysene	mg/kg	-	-
Dibenz(a,h)anthracene	mg/kg	-	-
Fluoranthene	mg/kg	-	-
Fluorene	mg/kg	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-
Naphthalene	mg/kg	-	-
Phenanthrene	mg/kg	-	-
Pyrene	mg/kg	-	-
Metals			
Arsenic	mg/kg	-	-
Barium	mg/kg	-	-
Cadmium	mg/kg	-	-
Chromium	mg/kg	-	-
Copper	mg/kg	-	-
Lead	mg/kg	-	-
Mercury	mg/kg	-	-
Selenium	mg/kg	-	-
Silver	mg/kg	-	-
Zinc	mg/kg	-	-
Pesticides			
Aroclor-1254 (PCB-1254)	mg/kg	U	0.279
Aroclor-1260 (PCB-1260)	mg/kg	U	U
Total PCBs	mg/kg	U	0.279
Petroleum Products			
Petroleum hydrocarbons	mg/kg	480	-
General Chemistry			
Total solids	%	-	-

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*
												Duplicate
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0065	0.0044 U	0.0046 U	0.0048 UJ
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.021 U	0.0015 J	0.0028 J	0.0053 J
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.021 U	0.017 U	0.019 U	0.019 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.021 U	0.017 U	0.019 U	0.019 UJ
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.021 U	0.017 U	0.019 U	0.028 UJ
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Chloroethane	mg/kg	-	-	950	2900000000	950	34	36000	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0026 U	0.0022 U	0.0023 U	0.0018 J
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	500000000	1700	270	63000	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.021 U	0.017 U	0.019 U	0.019 UJ
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*
												Duplicate
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0053 U	0.0044 U	0.00027 J	0.002 J
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0026 U	0.0022 U	0.0023 U	0.0024 UJ
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	70000000(	560	150	110000	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	30000000(	550	550	210000	0.0053 U	0.0044 U	0.0046 U	0.0048 UJ
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.011 U	0.0087 U	0.0093 U	0.0097 UJ
Semi-volatile Organic Compounds												
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.35 U	0.38 U	0.96 U	0.99 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.35 U	0.38 U	0.96 U	0.99 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.35 U	0.38 U	0.96 U	0.99 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.35 U	0.38 U	0.96 U	0.99 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	4.6 U	4.8 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.35 U	0.38 U	0.96 U	0.99 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.35 U	0.38 U	0.96 U	0.99 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.35 U	0.38 U	0.96 U	0.99 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.35 U	0.38 U	0.96 U	0.99 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.35 U	0.38 U	0.96 U	0.99 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	4.6 U	4.8 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.35 U	0.38 U	0.96 U	0.99 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.7 U	1.8 U	4.6 U	4.8 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	4.6 U	4.8 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.7 U	1.8 U	4.6 U	4.8 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.35 U	0.38 U	0.96 U	0.99 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.35 U	0.38 U	0.96 U	0.99 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	4.6 U	4.8 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	4.6 U	4.8 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.35 U	0.38 U	0.96 U	0.99 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.35 U	0.38 U	0.96 U	0.99 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.35 U	0.38 U	0.96 U	0.99 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.35 U	0.38 U	0.96 U	0.99 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.053 U	0.057 U	0.15 U	0.15 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*
												Duplicate
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.35 U	0.38 U	0.96 U	0.99 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.04 J	0.38 U	0.96 U	0.99 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.35 U	0.38 U	0.96 U	0.99 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.35 U	0.38 U	0.96 U	0.99 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.35 U	0.38 U	0.96 U	0.99 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.35 U	0.38 U	0.96 U	0.99 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.35 U	0.38 U	0.96 U	0.99 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.35 U	0.38 U	0.96 U	0.99 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.35 U	0.38 U	0.96 U	0.99 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.35 U	0.38 U	0.96 U	0.99 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.35 U	0.38 U	0.96 U	0.99 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.35 U	0.38 U	0.96 U	0.99 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.35 U	0.38 U	0.96 U	0.99 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.35 U	0.38 U	0.96 U	0.99 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.11 U	0.29 U	0.3 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.96 U	0.99 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.35 U	0.38 U	0.96 U	0.99 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.35 U	0.38 U	0.96 U	0.99 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.35 U	0.38 U	0.96 U	0.99 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.35 U	0.38 U	0.96 U	0.99 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.35 U	0.38 U	0.96 U	0.99 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.35 U	0.38 U	0.96 U	0.99 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.35 U	0.38 U	0.96 U	0.99 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.35 U	0.38 U	0.96 U	0.99 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.35 U	0.38 U	0.96 U	0.99 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	3790	7990	5880	6190
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.2	5.9	7.8	6.1
Barium	mg/kg	75	118	130000	150000	-	1300	-	19 J	48.3 J	48.9	47.1
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.23 J	0.61	0.32 J	0.37 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.068 J	0.11 J	0.11 J	0.23 J
Calcium	mg/kg	-	88000	-	-	-	-	-	25500	72400	31100 J	29100 J
Chromium	mg/kg	18	19	9200	240	-	30	-	9.9	16.2	11.5	12.8

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:									*BH-8-1A-00*	*BH-8-1A-00*	*BH-8-2-00*	*BH-8-2-00*
Sample ID:									*S-12636-060200-DRD-049*	*S-12636-060200-DRD-050*	*S-12636-060500-DRD-069*	*S-12636-060500-DRD-070*
Sample Date:									*6/2/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:									*(0.66-2.66) ft*	*(5-7) ft*	*(0.42-2.42) ft*	*(0.42-2.42) ft*
												Duplicate
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	1.754	1.784
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	3.3 J	8.9	6	6.7
Copper	mg/kg	32	32	73000	59000	-	5800	-	6.6	13.9	12.8	23
Iron	mg/kg	12000	27900	580000	-	-	6	-	8870	16500	13800	14600
Lead	mg/kg	21	21	900	44000	-	700	-	5.7	10.3	7.2	14.1
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	6490	28500	13700	13200
Manganese	mg/kg	440	513	90000	1500	-	1	-	181	337	238	258
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.035 UJ	0.0077 J	0.035 J	0.073
Nickel	mg/kg	20	26	150000	16000	-	100	-	10 J	22.8 J	14.3	17.1
Potassium	mg/kg	-	2300	-	-	-	-	-	699 J	1710 J	1230	1260
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.15 J	0.33 J	0.32 J	0.18 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.65	0.073 J	0.052 J	0.061 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	532 U	575 U	485 J	535 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.057 J	0.19 J	0.14 J	0.15 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	11.3	22	19.2	20.3
Zinc	mg/kg	47	70	630000	-	-	5000	-	25.1	49.2	45.8	108
Polychlorinated Biphenyls												
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.03 J	0.038 U	0.038 U	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.039 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.035 U	0.038 U	0.038 U	0.12
Pesticides												
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Petroleum Products												
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.532 U	0.575 U	0.58 U	0.598 U
Total solids	%	-	-	-	-	-	-	-	94.0	87.0	86.1	83.6

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:		*BH-8-3A-00*	*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:		*S-12636-060200-DRD-051*	*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:		*6/2/2000*	*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:		*(0.66-2.66) ft*	*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***								
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,1-Dichloroethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
1,1-Dichloroethene	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
1,2,4-Trichlorobenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,2-Dichloropropane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,3-Dichlorobenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.022 U	0.022 U	0.019 U	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	0.1 U	0.1 U	0.1 U
2-Hexanone	mg/kg	0.022 U	0.022 U	0.019 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.022 U	0.022 U	0.019 U	-	-	-	-	-
Acetone	mg/kg	0.022 U	0.022 U	0.019 U	-	-	-	-	-
Benzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Bromodichloromethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Bromoform	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-
Carbon tetrachloride	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Chlorobenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Chloroethane	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.0027 U	0.0027 U	0.0024 U	-	-	0.01 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Cyclohexane	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	-	-	-
Dibromochloromethane	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
Ethylbenzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Isopropyl benzene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-
m&p-Xylene	mg/kg	-	-	-	-	-	0.03 U	0.03 U	0.03 U
Methyl acetate	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.022 U	0.022 U	0.019 U	-	-	-	-	-
Methylene chloride	mg/kg	0.0055 U	0.00083 J	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
o-Xylene	mg/kg	-	-	-	-	-	0.03 U	0.03 U	0.03 U
Styrene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:		*BH-8-3A-00*	*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:		*S-12636-060200-DRD-051*	*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:		*6/2/2000*	*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:		*(0.66-2.66) ft*	*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***								
Tetrachloroethene	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	0.0027 U	0.0027 U	0.0024 U	U	U	0.01 U	0.01 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	0.01 U	0.01 U	0.01 U
Trichloroethene	mg/kg	0.0055 U	0.0054 U	0.0048 U	U	U	0.01 U	0.01 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0055 U	0.0054 U	0.0048 U	-	-	-	-	-
Vinyl chloride	mg/kg	0.011 U	0.011 U	0.0095 U	-	-	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	0.011 U	0.011 U	0.0095 U	U	U	-	-	-
Semi-volatile Organic Compounds									
2,2'-Oxybis(2-chloropropane)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2-Chlorophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2-Methylphenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
2-Nitroaniline	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
2-Nitrophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
3-Nitroaniline	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
4-Chloroaniline	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
4-Methylphenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
4-Nitroaniline	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
4-Nitrophenol	mg/kg	1.8 U	-	1.8 U	-	-	-	-	-
Acenaphthene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Acenaphthylene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Acetophenone	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Anthracene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Atrazine	mg/kg	0.055 U	-	0.057 U	-	-	-	-	-
Benzaldehyde	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Benzo(a)pyrene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:		*BH-8-3A-00*	*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:		*S-12636-060200-DRD-051*	*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:		*6/2/2000*	*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:		*(0.66-2.66) ft*	*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***								
Benzo(b)fluoranthene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Benzo(g,h,i)perylene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Benzo(k)fluoranthene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Caprolactam	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Carbazole	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Chrysene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Dibenz(a,h)anthracene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Dibenzofuran	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Diethyl phthalate	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Fluoranthene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Fluorene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Hexachlorobenzene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Hexachloroethane	mg/kg	0.11 U	-	0.11 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Isophorone	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Naphthalene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Nitrobenzene	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Pentachlorophenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Phenanthrene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Phenol	mg/kg	0.36 U	-	0.38 U	-	-	-	-	-
Pyrene	mg/kg	0.36 U	-	0.38 U	-	-	0.33 U	0.33 U	-
Metals									
Aluminum	mg/kg	2390	2450	9470	-	-	-	-	-
Antimony	mg/kg	1.1 UJ	1.1 UJ	1.1 UJ	-	-	-	-	-
Arsenic	mg/kg	4.6	2.5 J	13.2	5.15	5.28	32[e]	9	10
Barium	mg/kg	14.8 J	12.9	65 J	47.3	35.6	72	75	61
Beryllium	mg/kg	0.22 J	0.12 J	0.64	-	-	-	-	-
Cadmium	mg/kg	0.11 J	0.53 U B	0.22 J	U	U	0.62	0.82	0.64
Calcium	mg/kg	33300	1580 J	43000	-	-	-	-	-
Chromium	mg/kg	7	17.3	27.7	10.8	9.3	14	20	17

APPENDIX B.1
AOI 08
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*	*AOI 08*
Sample Location:		*BH-8-3A-00*	*BH-8-4-00*	*BH-8-5-00*	*BLD 63-24*	*BLD 63-25*	*PFB-7*	*PFB-15*	*PFW-3*
Sample ID:		*S-12636-060200-DRD-051*	*S-12636-060600-KMV-108*	*S-12636-060200-DRD-048*	*BLD 63-24*	*BLD 63-25*	*PFB-7 8-10*	*PFB-15 11-11.5*	*PFW-3 0.8-1.5*
Sample Date:		*6/2/2000*	*6/6/2000*	*6/2/2000*	*11/6/1996*	*11/6/1996*	*3/18/1997*	*3/24/1997*	*3/17/1997*
Sample Depth:		*(0.66-2.66) ft*	*(0.5-2) ft*	*(0-2) ft*	*-*	*-*	*(8-10) ft*	*(11-11.5) ft*	*(0.8-1.5) ft*
Parameters:	***Units***								
Chromium VI (hexavalent)	mg/kg	0.7 U	2.142	0.7 U	-	-	-	-	-
Cobalt	mg/kg	3.5	1.7	9.9	-	-	-	-	-
Copper	mg/kg	8.5	27.2	19.3	U	U	11	15	18
Iron	mg/kg	7670	14900	20300	-	-	-	-	-
Lead	mg/kg	6.6	7.7	11.5	5.48	4.5	15	18	13
Magnesium	mg/kg	10500	742	15600	-	-	-	-	-
Manganese	mg/kg	186	203	230	-	-	-	-	-
Mercury	mg/kg	0.0047 J	0.035 U	0.014 J	U	U	0.1 U	0.1 U	0.1 U
Nickel	mg/kg	8.7 J	10	37.1 J	-	-	-	-	-
Potassium	mg/kg	382 J	321 U	1050 J	-	-	-	-	-
Selenium	mg/kg	0.11 J	0.12 J	0.1 J	U	U	0.5 U	0.5 U	0.5 U
Silver	mg/kg	0.022 J	0.07 J	0.081 J	U	U	0.5	2.8	0.5 U
Sodium	mg/kg	548 U	535 U	204 J	-	-	-	-	-
Thallium	mg/kg	0.067 J	0.53 U	0.23 J	-	-	-	-	-
Vanadium	mg/kg	9.4	7.8	23.5	-	-	-	-	-
Zinc	mg/kg	33.1	8.1	69.6	U	U	37	43	150
Polychlorinated Biphenyls									
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	0.036 U	-	0.038 U	-	-	-	-	-
Pesticides									
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	U	U	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	U	U	-	-	-
Total PCBs	mg/kg	-	-	-	U	U	0.33 U	0.33 U	-
Petroleum Products									
Petroleum hydrocarbons	mg/kg	-	-	-	471	945	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	0.548 U	0.535 U	0.573 U	-	-	-	-	-
Total solids	%	91.3	93.5	87.3	-	-	87.70	87.24	88.15

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 09***	***AOI 09***	***AOI 09***	***AOI 09***	***AOI 09***
Sample Location:									***BASE1***	***BASE2***	***BH-6E-01***	***BH-9-10-00***	***BH-9-10-02***
Sample ID:									***S-12636-061401-NB-002***	***S-12636-061401-NB-003***	***S-12636-020501-DRD-001***	***S-12636-060500-DRD-071***	***S-12636-062602-DD-023***
Sample Date:									***6/14/2001***	***6/14/2001***	***5/2/2001***	***6/5/2000***	***6/26/2002***
Sample Depth:									***(6) ft bgs***	***(6) ft bgs***	***(0-2) ft***	***(0.5-2.5) ft***	***(0.5-2.5) ft bgs***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/kg	-	-	440	530000	33	6.4	120	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.006 U	0.0059 UJ	0.0046 UJ	0.00041 J	-
1,2,3-Trichloropropane	mg/kg	-	-	830	-	-	2.4	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
1,4-Dioxane	mg/kg	-	-	2400	710000	-	7	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.024 U	0.024 UJ	0.018 UJ	0.02 U	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.024 U	0.024 UJ	0.018 UJ	0.02 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.024 U	0.024 UJ	0.018 UJ	0.02 U	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.024 U	0.024 UJ	0.018 UJ	0.02 U	-
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	-	-	-	-	-
Acrolein	mg/kg	-	-	12000	590	0.76	6.6	0.37	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	74	58000	35	0.22	17	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Chloroprene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.003 U	0.0032 J	0.0023 UJ	0.0026 U	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Dibromomethane	mg/kg	-	-	2000	-	-	4.6	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*	*BH-9-10-02*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*	*S-12636-062602-DD-023*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*	*6/26/2002*
Sample Depth:									*(6) ft bgs*	*(6) ft bgs*	*(0-2) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft bgs*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Iodomethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	8900	44000000	8900	130	95000	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.024 U	0.024 UJ	0.018 UJ	0.02 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.006 U	0.00088 J	0.0046 UJ	0.00034 J	-
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.003 U	0.003 UJ	0.0023 UJ	0.0026 U	-
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.006 U	0.0032 J	0.0046 UJ	0.0051 U	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	17000000(	560	150	110000	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	23000000(	550	550	210000	0.006 U	0.0059 UJ	0.0046 UJ	0.0051 U	-
Vinyl acetate	mg/kg	-	-	2400	5900000	1500	36	2000	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.012 U	0.012 UJ	0.0091 UJ	0.01 U	-
Semi-volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	250000	-	-	1500	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*	*BH-9-10-02*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*	*S-12636-062602-DD-023*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*	*6/26/2002*
Sample Depth:									*(6) ft bgs*	*(6) ft bgs*	*(0-2) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft bgs*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	-	-	-	-	-
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	-	-	-	-	-
Aniline	mg/kg	-	-	1500	29000	-	4.4	-	-	-	-	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	5800	150000000	-	580	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*	*BH-9-10-02*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*	*S-12636-062602-DD-023*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*	*6/26/2002*
Sample Depth:									*(6) ft bgs*	*(6) ft bgs*	*(0-2) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft bgs*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	-	-	-	-	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	190	-	-	81	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	5500	150000	220	37	280	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	-	-	-	-	-
Phenol	mg/kg	-	-	12000	18000000	-	260	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*	*BH-9-10-02*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*	*S-12636-062602-DD-023*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*	*6/26/2002*
Sample Depth:									*(6) ft bgs*	*(6) ft bgs*	*(0-2) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft bgs*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Pyridine	mg/kg	-	-	37	100000	2	0.42	9.8	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	11100	10700	5060	3980	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.239 UJ	0.233 UJ	0.0388 J	1.1 UJ	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	4.76 J	6.06 J	4.52	6.6	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	62.7	59.3	30.1	22.5	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.338	0.572	0.291	0.2 J	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.416	0.133	0.133	0.13 J	-
Calcium	mg/kg	-	88000	-	-	-	-	-	50200	50000	38800	28800 J	-
Chromium	mg/kg	18	19	9200	240	-	30	-	96.4[e]	38.3[e]	11.9 J	7.2	-
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	-	-	-	7.2	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	-	-	-	0.7 U	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	4.83 J	7.54 J	4.32	4.6	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	12.4 J	11.8 J	9.33 J	8.7	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	18000	17800	10300	12400	-
Lead	mg/kg	21	21	900	44000	-	700	-	13.8 J	10.2 J	7.96	6.3	168
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	21000 J	22300 J	13500	8270	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	376	330	231 J	346	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0113 J	0.0145 J	0.0085 J	0.014 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	158[e]	59.6	10.6 J	8.6	-
Potassium	mg/kg	-	2300	-	-	-	-	-	3020 J	2720 J	1120	656	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.599 UJ	0.582 UJ	0.0571 J	0.17 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.097 J	0.0809 J	0.0612 J	0.026 J	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	599 U	582 U	601 UJ	186 J	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.134	0.22	0.113 J	0.093 J	-
Tin	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	29.6 J	28.7 J	15.5 J	14.8	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	145	92.4	35	71.9	-
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Pesticides													
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:									*BASE1*	*BASE2*	*BH-6E-01*	*BH-9-10-00*	*BH-9-10-02*
Sample ID:									*S-12636-061401-NB-002*	*S-12636-061401-NB-003*	*S-12636-020501-DRD-001*	*S-12636-060500-DRD-071*	*S-12636-062602-DD-023*
Sample Date:									*6/14/2001*	*6/14/2001*	*5/2/2001*	*6/5/2000*	*6/26/2002*
Sample Depth:									*(6) ft bgs*	*(6) ft bgs*	*(0-2) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft bgs*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Petroleum Products													
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	0.601 U	0.533 U	-
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-	17.0
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	83.5	85.9	83.3	93.8	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,1,2-Trichloroethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,1-Dichloroethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,1-Dichloroethene	mg/kg	0.02	0.022	0.0024 J	0.0068 U	-	-	0.0058 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,2-Dichlorobenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,2-Dichloroethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,3-Dichlorobenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,4-Dichlorobenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	0.023 U	0.027 U	-	-	0.023 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	0.023 U	0.027 U	-	-	0.023 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	0.023 U	0.027 U	-	-	0.023 U
Acetone	mg/kg	-	-	0.023 U	0.027 U	-	-	0.023 U
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Bromodichloromethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Bromoform	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Bromomethane (Methyl bromide)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Carbon disulfide	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Carbon tetrachloride	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Chlorobenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Chloroethane	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Chloroform (Trichloromethane)	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Chloromethane (Methyl chloride)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	0.0029 U	0.0034 U	-	-	0.0029 U
cis-1,3-Dichloropropene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Cyclohexane	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Dibromochloromethane	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	0.023 U	0.027 U	-	-	0.023 U
Methylene chloride	mg/kg	-	-	0.00065 J	0.00067 J	-	-	0.00048 J
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Tetrachloroethene	mg/kg	-	-	0.0058 U	0.0025 J	-	-	0.0058 U
Toluene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
trans-1,2-Dichloroethene	mg/kg	-	-	0.0029 U	0.0034 U	-	-	0.0029 U
trans-1,3-Dichloropropene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	0.0058 U	0.0068 U	-	-	0.0058 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Xylene (total)	mg/kg	-	-	0.012 U	0.014 U	-	-	0.012 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	2220	2080	-	-	2340
Antimony	mg/kg	-	-	1.1 UJ	1.1 UJ	-	-	1.1 UJ
Arsenic	mg/kg	-	-	4.7	5	-	-	2.3 J
Barium	mg/kg	-	-	14.7	13.3	-	-	11.7
Beryllium	mg/kg	-	-	0.16 J	0.19 J	-	-	0.11 J
Cadmium	mg/kg	-	-	0.11 J	0.12 J	-	-	0.096 J
Calcium	mg/kg	-	-	34900 J	51900 J	-	-	9330 J
Chromium	mg/kg	-	-	5.1	5.6	-	-	84.5
Chromium III (Trivalent)	mg/kg	-	-	5.1	5.6	-	-	83.325
Chromium VI (hexavalent)	mg/kg	-	-	0.7 U	0.7 U	-	-	1.175
Cobalt	mg/kg	-	-	3.2	3.8	-	-	2.7
Copper	mg/kg	-	-	7.6	7.8	-	-	40.1
Iron	mg/kg	-	-	7490	7410	-	-	6300
Lead	mg/kg	-	-	4.7	5.2	20.8	30.1	23.7
Magnesium	mg/kg	-	-	11700	23000	-	-	2490
Manganese	mg/kg	-	-	180	189	-	-	124
Mercury	mg/kg	-	-	0.035 U	0.035 J	-	-	0.035 U
Nickel	mg/kg	-	-	6.8	8.4	-	-	70
Potassium	mg/kg	-	-	402	397	-	-	292 J
Selenium	mg/kg	-	-	2.6 U	2.7 U	-	-	2.7 U
Silver	mg/kg	-	-	0.019 J	0.021 J	-	-	0.061 J
Sodium	mg/kg	-	-	529 U	531 U	-	-	260 J
Thallium	mg/kg	-	-	0.061 J	0.063 J	-	-	0.031 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	9.7	10.3	-	-	8.6
Zinc	mg/kg	-	-	31.5	32.8	-	-	107
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-1-02*	*BH-9-1-02*	*BH-9-11-00*	*BH-9-11-00*	*BH-9-11-02*	*BH-9-11-02*	*BH-9-12-00*
Sample ID:		*S-12636-062602-DD-003*	*S-12636-062602-DD-004*	*S-12636-060600-DRD-080*	*S-12636-060600-DRD-081*	*S-12636-062602-DD-025*	*S-12636-062602-DD-026*	*S-12636-060600-DRD-082*
Sample Date:		*6/26/2002*	*6/26/2002*	*6/6/2000*	*6/6/2000*	*6/26/2002*	*6/26/2002*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.33-2.33) ft*	*(0.33-2.33) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*
			Duplicate		*Duplicate*		*Duplicate*	
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	0.529 U	0.531 U	-	-	0.533 U
Percent moisture	%	-	-	-	-	15.0	11.8	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	87.4	87.9	94.5	94.2	-	-	93.9

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

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft*
								Duplicate
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	0.0047 U	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,1,2,2-Tetrachloroethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,1,2-Trichloroethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,1-Dichloroethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,1-Dichloroethene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,2,3-Trichloropropane	mg/kg	-	-	0.0047 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0044 U	-	-	0.0052 U	-	0.0045 U	0.0045 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,2-Dichlorobenzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,2-Dichloroethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,2-Dichloroethene (total)	mg/kg	-	-	0.0047 U	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,3-Dichlorobenzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,4-Dichlorobenzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
1,4-Dioxane	mg/kg	-	-	0.47 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.017 U	-	0.019 U	0.021 U	-	0.018 U	0.018 UJ
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.017 U	-	0.019 U	0.021 U	-	0.018 U	0.018 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.017 U	-	0.019 U	0.021 U	-	0.018 U	0.018 UJ
Acetone	mg/kg	0.017 U	-	0.019 U	0.021 U	-	0.018 U	0.013 J
Acetonitrile	mg/kg	-	-	0.095 U	-	-	-	-
Acrolein	mg/kg	-	-	0.095 U	-	-	-	-
Acrylonitrile	mg/kg	-	-	0.095 U	-	-	-	-
Allyl chloride	mg/kg	-	-	0.0095 U	-	-	-	-
Benzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Bromodichloromethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Bromoform	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Bromomethane (Methyl bromide)	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
Carbon disulfide	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0011 J
Carbon tetrachloride	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Chlorobenzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Chloroethane	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
Chloroform (Trichloromethane)	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Chloromethane (Methyl chloride)	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
Chloroprene	mg/kg	-	-	0.0047 U	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.0022 U	-	-	0.0026 U	-	0.0023 U	0.0022 UJ
cis-1,3-Dichloropropene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Cyclohexane	mg/kg	0.0087 U	-	-	0.01 U	-	0.009 U	0.0089 UJ
Dibromochloromethane	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Dibromomethane	mg/kg	-	-	0.0047 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft*
								Duplicate
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	0.0047 U	-	-	-	-
Ethylbenzene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Iodomethane	mg/kg	-	-	0.0047 U	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	0.19 U	-	-	-	-
Isopropyl benzene	mg/kg	0.0044 U	-	-	0.0052 U	-	0.0045 U	0.0045 UJ
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.0087 U	-	-	0.01 U	-	0.009 U	0.0089 UJ
Methyl acrylonitrile	mg/kg	-	-	0.0047 U	-	-	-	-
Methyl cyclohexane	mg/kg	0.0087 U	-	-	0.01 U	-	0.009 U	0.0089 UJ
Methyl methacrylate	mg/kg	-	-	0.0047 U	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.017 U	-	-	0.021 U	-	0.018 U	0.018 UJ
Methylene chloride	mg/kg	0.0023 J	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	0.019 U	-	-	-	-
Styrene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Tetrachloroethene	mg/kg	0.0044 U	-	0.00084 J	0.0084	-	0.0045 U	0.0045 UJ
Toluene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
trans-1,2-Dichloroethene	mg/kg	0.0022 U	-	-	0.0026 U	-	0.0023 U	0.0022 UJ
trans-1,3-Dichloropropene	mg/kg	0.0044 U	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
trans-1,4-Dichloro-2-butene	mg/kg	-	-	0.0047 U	-	-	-	-
Trichloroethene	mg/kg	0.0012 J	-	0.0047 U	0.0052 U	-	0.0045 U	0.0045 UJ
Trichlorofluoromethane (CFC-11)	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0044 U	-	-	0.0052 U	-	0.0045 U	0.0045 UJ
Vinyl acetate	mg/kg	-	-	0.0095 U	-	-	-	-
Vinyl chloride	mg/kg	0.0087 U	-	0.0095 U	0.01 U	-	0.009 U	0.0089 UJ
Xylene (total)	mg/kg	0.0087 U	-	0.0047 U	0.01 U	-	0.009 U	0.0089 UJ
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	0.38 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	0.38 U	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	1.9 U	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	0.38 U	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	1.9 U	-	-	-	-
1-Naphthylamine	mg/kg	-	-	0.38 U	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	0.38 U	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	1.9 U	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	0.38 U	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	1.9 U	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	0.38 U	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	0.38 U	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft*
								Duplicate
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	3.8 U	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	0.38 U	-	-	-	-
2-Chlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	0.38 U	-	-	-	-
2-Methylphenol	mg/kg	-	-	0.38 U	-	-	-	-
2-Naphthylamine	mg/kg	-	-	0.38 U	-	-	-	-
2-Nitroaniline	mg/kg	-	-	1.9 U	-	-	-	-
2-Nitrophenol	mg/kg	-	-	0.38 U	-	-	-	-
2-Picoline	mg/kg	-	-	0.76 U	-	-	-	-
2-Toluidine	mg/kg	-	-	0.76 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	1.9 U	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	1.9 U	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	0.76 U	-	-	-	-
3-Methylphenol	mg/kg	-	-	0.38 U	-	-	-	-
3-Nitroaniline	mg/kg	-	-	1.9 U	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	1.9 U	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	1.9 U	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	0.38 U	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	0.38 U	-	-	-	-
4-Chloroaniline	mg/kg	-	-	0.38 U	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	0.38 U	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	0.38 U	-	-	-	-
4-Methylphenol	mg/kg	-	-	0.38 U	-	-	-	-
4-Nitroaniline	mg/kg	-	-	1.9 U	-	-	-	-
4-Nitrophenol	mg/kg	-	-	1.9 U	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	3.8 U	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	0.38 U	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	0.76 U	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	1.9 U	-	-	-	-
Acenaphthene	mg/kg	-	-	0.38 U	-	-	-	-
Acenaphthylene	mg/kg	-	-	0.38 U	-	-	-	-
Acetophenone	mg/kg	-	-	0.38 U	-	-	-	-
Aniline	mg/kg	-	-	0.38 U	-	-	-	-
Anthracene	mg/kg	-	-	0.38 U	-	-	-	-
Aramite	mg/kg	-	-	0.76 U	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	0.05 J	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	0.38 U	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	0.38 U	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	0.38 U	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	0.38 U	-	-	-	-
Benzyl alcohol	mg/kg	-	-	0.38 U	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	0.38 U	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	0.38 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	0.38 U	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	0.38 U	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft*
								Duplicate
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	0.38 U	-	-	-	-
Chrysene	mg/kg	-	-	0.059 J	-	-	-	-
Diallate	mg/kg	-	-	0.76 U	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	0.38 U	-	-	-	-
Dibenzofuran	mg/kg	-	-	0.044 J	-	-	-	-
Diethyl phthalate	mg/kg	-	-	0.38 U	-	-	-	-
Dimethoate	mg/kg	-	-	0.76 U	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	0.38 U	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	0.38 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	0.38 U	-	-	-	-
Diphenylamine	mg/kg	-	-	0.38 U	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	0.38 U	-	-	-	-
Fluoranthene	mg/kg	-	-	0.15 J	-	-	-	-
Fluorene	mg/kg	-	-	0.38 U	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	0.38 U	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	0.38 U	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	1.9 U	-	-	-	-
Hexachloroethane	mg/kg	-	-	0.38 U	-	-	-	-
Hexachloropropene	mg/kg	-	-	3.8 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	0.38 U	-	-	-	-
Isophorone	mg/kg	-	-	0.38 U	-	-	-	-
Isosafrole	mg/kg	-	-	0.76 U	-	-	-	-
Methapyrilene	mg/kg	-	-	1.9 U	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	0.38 U	-	-	-	-
Naphthalene	mg/kg	-	-	0.38 U	-	-	-	-
Nitrobenzene	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	0.38 U	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	0.38 U	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	0.38 U	-	-	-	-
Pentachloroethane	mg/kg	-	-	1.9 U	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	1.9 U	-	-	-	-
Pentachlorophenol	mg/kg	-	-	0.38 U	-	-	-	-
Phenacetin	mg/kg	-	-	0.76 U	-	-	-	-
Phenanthrene	mg/kg	-	-	0.21 J	-	-	-	-
Phenol	mg/kg	-	-	0.38 U	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	3.8 U	-	-	-	-
Pronamide	mg/kg	-	-	0.76 U	-	-	-	-
Pyrene	mg/kg	-	-	0.11 J	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft Duplicate*
Parameters:	***Units***							
Pyridine	mg/kg	-	-	0.76 U	-	-	-	-
Safrole	mg/kg	-	-	0.38 U	-	-	-	-
Metals								
Aluminum	mg/kg	4850	-	-	3140	-	5830	6200
Antimony	mg/kg	0.229 UJ	-	1.2 U	1 U	-	1.1 U	1.1 U
Arsenic	mg/kg	4.96	-	5.8	5.4	-	4.5	5.2
Barium	mg/kg	31.6	-	36.3	21.1	-	79.4	34.2
Beryllium	mg/kg	0.218	-	0.34 J	0.21 J	-	0.45 J	0.46 J
Cadmium	mg/kg	0.0858 J	-	0.14 J	0.13 J	-	0.083 J	0.11 J
Calcium	mg/kg	34000	-	-	33200	-	47900	53900
Chromium	mg/kg	28.6	-	10.7	20.2	-	14.5	14.9
Chromium III (Trivalent)	mg/kg	28.6	-	10.7	18.842	-	14.5	14.9
Chromium VI (hexavalent)	mg/kg	0.7 U	-	0.7 U	1.358	-	0.7 U	0.7 U
Cobalt	mg/kg	3.35	-	6.9	5.8	-	7.1	11.4
Copper	mg/kg	43.4	-	83.7	68.4	-	9.3	9.2
Iron	mg/kg	10500	-	-	9520	-	12300	12500
Lead	mg/kg	13.9	5.69	7	6.3	7.05	6	6.8
Magnesium	mg/kg	12600	-	-	13200	-	17900	13200
Manganese	mg/kg	200	-	-	205	-	230	289
Mercury	mg/kg	0.0103 J	-	0.038 U	0.01 J	-	0.037 U	0.037 U
Nickel	mg/kg	26	-	15.9	16.3	-	84	140[e]
Potassium	mg/kg	1160	-	-	621	-	1300	1330
Selenium	mg/kg	0.215 J	-	0.16 J	0.19 J	-	0.17 J	0.21 J
Silver	mg/kg	0.0396 J	-	0.047 J	0.032 J	-	0.057 J	0.044 J
Sodium	mg/kg	572 U	-	-	520 U	-	557 U	558 U
Thallium	mg/kg	0.114 U	-	0.14 J	0.08 J	-	0.13 J	0.13 J
Tin	mg/kg	-	-	5.8 U	-	-	-	-
Vanadium	mg/kg	13.5	-	15.5	11.8	-	16.4	17.7
Zinc	mg/kg	45.1	-	40.9	36.9	-	27.6	36.1
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	0.038 U	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	0.038 U	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-13C-00*	*BH-9-14-02*	*BH-9-14D-00*	*BH-9-15-00*	*BH-9-15-02*	*BH-9-16B-00*	*BH-9-16B-00*
Sample ID:		*S-12636-070800-DRD-151*	*S-12636-062602-DD-032*	*S-12636-061200-DRD-094*	*S-12636-060700-DRD-088*	*S-12636-062602-DD-034*	*S-12636-061200-DRD-092*	*S-12636-061200-DRD-093*
Sample Date:		*7/8/2000*	*6/26/2002*	*6/12/2000*	*6/7/2000*	*6/26/2002*	*6/12/2000*	*6/12/2000*
Sample Depth:		*(4-6) ft bgs*	*(0.5-2.5) ft bgs*	*(0.83-2.83) ft*	*(0.66-2.66) ft*	*(0.5-2.5) ft bgs*	*(0.66-2.66) ft*	*(0.66-2.66) ft*
								Duplicate
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.452 J	-	0.579 U	0.291 J	-	0.557 U	0.558 U
Percent moisture	%	-	16.1	-	-	17.6	-	-
Sulfide (acid insoluble)	mg/kg	-	-	120 U	-	-	-	-
Total solids	%	87.4	-	86.4	96.2	-	89.7	89.6

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,1,2-Trichloroethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,1-Dichloroethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,1-Dichloroethene	mg/kg	0.0055 U	0.0057 U	0.00053 J	0.00082 J	0.0052 U	0.0054 U	0.0051 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,2-Dichlorobenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,2-Dichloroethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,3-Dichlorobenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,4-Dichlorobenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.022 U	0.023 U	0.021 U	0.017 U	0.021 U	0.022 U	0.021 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.022 U	0.023 U	0.021 U	0.017 U	0.021 U	0.022 U	0.021 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.022 U	0.023 U	0.021 U	0.017 U	0.021 U	0.022 U	0.021 U
Acetone	mg/kg	0.0026 J	0.023 U	0.021 U	0.017 U	0.0055 J	0.022 U	0.021 U
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Bromodichloromethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Bromoform	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Bromomethane (Methyl bromide)	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Carbon disulfide	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Carbon tetrachloride	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Chlorobenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Chloroethane	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Chloromethane (Methyl chloride)	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.0027 U	0.0028 U	0.0026 U	0.0021 U	0.0026 U	0.0027 U	0.0026 U
cis-1,3-Dichloropropene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Cyclohexane	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Dibromochloromethane	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.014	0.0052 U	0.0054 U	0.0051 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.022 U	0.023 U	0.021 U	0.017 U	0.021 U	0.022 U	0.021 U
Methylene chloride	mg/kg	0.00057 J	0.00063 J	0.00058 J	0.0042 U	0.0052 U	0.0008 J	0.00056 J
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Tetrachloroethene	mg/kg	0.0055 U	0.0063	0.0053 U	0.0042 U	0.00048 J	0.0054 U	0.0051 U
Toluene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0049	0.00049 J	0.0054 U	0.0051 U
trans-1,2-Dichloroethene	mg/kg	0.0027 U	0.0028 U	0.0026 U	0.0021 U	0.0026 U	0.0027 U	0.0026 U
trans-1,3-Dichloropropene	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.0055 U	0.0036 J	0.0053 U	0.0042 U	0.0065	0.0054 U	0.0051 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0055 U	0.0057 U	0.0053 U	0.0042 U	0.0052 U	0.0054 U	0.0051 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.011 U	0.011 U	0.011 U	0.0083 U	0.01 U	0.011 U	0.01 U
Xylene (total)	mg/kg	0.011 U	0.011 U	0.011 U	0.061	0.01 U	0.011 U	0.01 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	*Units*							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	*Units*							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	2580	4420	4370	3910	2890	5350	2580
Antimony	mg/kg	1.1 UJ	1 UJ	1 UJ	1.1 U	1.1 U	1 UJ	1.1 UJ
Arsenic	mg/kg	2.7	4.6	2.9	11.9	6.5	3.9	3.8
Barium	mg/kg	14.1	31.1	27.3	27.4	17.2	22.7	12.8
Beryllium	mg/kg	0.12 J	0.22 J	0.19 J	0.31 J	0.22 J	0.13 J	0.11 J
Cadmium	mg/kg	0.072 J	0.085 J	0.088 J	0.18 J	0.17 J	0.12 J	0.4 J
Calcium	mg/kg	25200 J	25200 J	2080 J	74900	17900	31600 J	28300 J
Chromium	mg/kg	3.6	7.4	5.5	13.9	8.4	7.2	6.4
Chromium III (Trivalent)	mg/kg	3.6	7.4	5.5	13.9	8.4	7.2	6.4
Chromium VI (hexavalent)	mg/kg	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	2.3	5.4	2.6	8	10.8	3.7	8
Copper	mg/kg	4.5	8.4	3.7	16.2	10.2	11.5	7.9
Iron	mg/kg	7360	10300	9760	9220	9220	13200	7690
Lead	mg/kg	3.6	6.8	4.7	10.2	10.5	7.6	4.8
Magnesium	mg/kg	7220	8640	1300	18400	5510	255	6910
Manganese	mg/kg	155	279	265	245	236	255	175
Mercury	mg/kg	0.036 U	0.034 U	0.034 U	0.038 U	0.036 U	0.024 J	0.025 J
Nickel	mg/kg	4.2	11.6	5.3	19.9	11.2	11.3	6.9
Potassium	mg/kg	371	848	615	733	394	1120	451
Selenium	mg/kg	2.7 U	0.11 J	0.17 J	0.17 J	0.18 J	0.22 J	2.6 U
Silver	mg/kg	0.55 U	0.02 J	0.013 J	0.054 J	0.038 J	0.045 J	0.022 J
Sodium	mg/kg	545 U	510 U	522 U	572 U	552 U	523 U	529 U
Thallium	mg/kg	0.038 J	0.089 J	0.051 J	0.17 J	0.086 J	0.022 J	0.046 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	10.3	14.5	14.1	12.7	11	18.4	10.3
Zinc	mg/kg	17.4	27.9	23.5	69.7	485	399	82.1
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-17-00*	*BH-9-18B-00*	*BH-9-19-00*	*BH-9-19B-00*	*BH-9-1C-00*	*BH-9-2-00*	*BH-9-2-00*
Sample ID:		*S-12636-060600-DRD-083*	*S-12636-060600-DRD-084*	*S-12636-060600-DRD-085*	*S-12636-061200-DRD-090*	*S-12636-061200-DRD-095*	*S-12636-060600-DRD-078*	*S-12636-060600-DRD-079*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/6/2000*	*6/12/2000*	*6/12/2000*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.42-2.42) ft*	*(2-4) ft*	*(0.5-2.5) ft*	*(14.42-15.5) ft*	*(1-3) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
								Duplicate
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.545 U	0.51 U	0.522 U	0.572 U	0.552 U	0.523 U	0.529 U
Percent moisture	%	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	52 U	53 U
Total solids	%	91.7	98.0	95.8	87.5	90.6	95.7	94.5

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft Excavated*	*(0.66-2.66) ft*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	0.23 U
1,1,1-Trichloroethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	6[e]	2.4
1,1,2,2-Tetrachloroethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,1,2-Trichloroethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,1-Dichloroethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	3.3	1.2
1,1-Dichloroethene	mg/kg	0.0083 U	0.0041 U	0.041	0.0051 U	0.00057 J	1[de]	0.23 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	0.23 U
1,2,4-Trichlorobenzene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,2-Dichlorobenzene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,2-Dichloroethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.045 J	0.23 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	0.23 U
1,2-Dichloropropane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,3-Dichlorobenzene	mg/kg	0.00073 J	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,4-Dichlorobenzene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	23 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.033 U	0.017 U	-	0.02 U	0.019 U	0.82 U	0.92 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.033 U	0.017 U	-	0.02 U	0.019 U	0.82 U	0.92 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.033 U	0.017 U	-	0.02 U	0.019 U	0.82 U	5.9
Acetone	mg/kg	0.033 U	0.0045 J	-	0.02 U	0.019 U	0.82 U	1.2
Acetonitrile	mg/kg	-	-	-	-	-	-	4.6 U
Acrolein	mg/kg	-	-	-	-	-	-	4.6 U
Acrylonitrile	mg/kg	-	-	-	-	-	-	4.6 U
Allyl chloride	mg/kg	-	-	-	-	-	-	0.46 U
Benzene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Bromodichloromethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Bromoform	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Bromomethane (Methyl bromide)	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
Carbon disulfide	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Carbon tetrachloride	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Chlorobenzene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Chloroethane	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
Chloroform (Trichloromethane)	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Chloromethane (Methyl chloride)	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
Chloroprene	mg/kg	-	-	-	-	-	-	0.23 U
cis-1,2-Dichloroethene	mg/kg	0.0041 U	0.0021 U	-	0.0025 U	0.0024 U	0.056 J	-
cis-1,3-Dichloropropene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Cyclohexane	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	-
Dibromochloromethane	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Dibromomethane	mg/kg	-	-	-	-	-	-	0.23 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft Excavated*	*(0.66-2.66) ft*
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	0.23 U
Ethylbenzene	mg/kg	0.0083 U	0.0023 J	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Iodomethane	mg/kg	-	-	-	-	-	-	0.23 U
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	9.2 U
Isopropyl benzene	mg/kg	0.0083 U	0.00072 J	-	0.0051 U	0.0048 U	0.21 U	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	-
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	0.23 U
Methyl cyclohexane	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	-
Methyl methacrylate	mg/kg	-	-	-	-	-	-	0.23 U
Methyl tert butyl ether (MTBE)	mg/kg	0.033 U	0.017 U	-	0.02 U	0.019 U	0.82 U	-
Methylene chloride	mg/kg	0.0083 U	0.0041 U	-	0.0029 J	0.0048 U	0.21 U	0.11 J[e]
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	0.92 U
Styrene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
Tetrachloroethene	mg/kg	0.0083 U	0.0041 U	-	0.0055	0.0048 U	0.17 J[e]	0.049 J
Toluene	mg/kg	0.0083 U	0.00034 J	-	0.0051 U	0.0048 U	0.87	0.28
trans-1,2-Dichloroethene	mg/kg	0.0041 U	0.0021 U	-	0.0025 U	0.0024 U	0.1 U	-
trans-1,3-Dichloropropene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	0.23 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	0.23 U
Trichloroethene	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.024 J	0.23 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0083 U	0.0041 U	-	0.0051 U	0.0048 U	0.21 U	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	0.46 U
Vinyl chloride	mg/kg	0.017 U	0.0083 U	-	0.01 U	0.0096 U	0.41 U	0.46 U
Xylene (total)	mg/kg	0.017 U	0.0064 J	-	0.01 U	0.0096 U	0.14 J	0.46 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	8.7 U
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	8.7 U
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	42 U
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	8.7 U
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	42 U
1-Naphthylamine	mg/kg	-	-	-	-	-	-	8.7 U
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	8.7 U
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	42 U
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	8.7 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	42 U
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	8.7 U
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	8.7 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft*
							Excavated	
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	87 U
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	8.7 U
2-Chlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	8.7 U
2-Methylphenol	mg/kg	-	-	-	-	-	-	8.7 U
2-Naphthylamine	mg/kg	-	-	-	-	-	-	8.7 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	42 U
2-Nitrophenol	mg/kg	-	-	-	-	-	-	8.7 U
2-Picoline	mg/kg	-	-	-	-	-	-	17 U
2-Toluidine	mg/kg	-	-	-	-	-	-	17 U
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	42 U
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	42 U
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	17 U
3-Methylphenol	mg/kg	-	-	-	-	-	-	8.7 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	42 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	42 U
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	42 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	8.7 U
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	8.7 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	8.7 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	8.7 U
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	8.7 U
4-Methylphenol	mg/kg	-	-	-	-	-	-	8.7 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	42 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	42 U
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	87 U
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	8.7 U
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	17 U
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	42 U
Acenaphthene	mg/kg	-	-	-	-	-	-	8.7 U
Acenaphthylene	mg/kg	-	-	-	-	-	-	8.7 U
Acetophenone	mg/kg	-	-	-	-	-	-	8.7 U
Aniline	mg/kg	-	-	-	-	-	-	8.7 U
Anthracene	mg/kg	-	-	-	-	-	-	8.7 U
Aramite	mg/kg	-	-	-	-	-	-	17 U
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	8.7 U
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	8.7 U
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	8.7 U
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	8.7 U
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	8.7 U
Benzyl alcohol	mg/kg	-	-	-	-	-	-	8.7 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	8.7 U
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	8.7 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	8.7 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	8.7 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft Excavated*	*(0.66-2.66) ft*
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	8.7 U
Chrysene	mg/kg	-	-	-	-	-	-	8.7 U
Diallate	mg/kg	-	-	-	-	-	-	17 U
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	8.7 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	8.7 U
Diethyl phthalate	mg/kg	-	-	-	-	-	-	8.7 U
Dimethoate	mg/kg	-	-	-	-	-	-	17 U
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	8.7 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	8.7 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	8.7 U
Diphenylamine	mg/kg	-	-	-	-	-	-	8.7 U
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	8.7 U
Fluoranthene	mg/kg	-	-	-	-	-	-	8.7 U
Fluorene	mg/kg	-	-	-	-	-	-	8.7 U
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	8.7 U
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	8.7 U
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	42 U
Hexachloroethane	mg/kg	-	-	-	-	-	-	8.7 U
Hexachloropropene	mg/kg	-	-	-	-	-	-	87 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	8.7 U
Isophorone	mg/kg	-	-	-	-	-	-	8.7 U
Isosafrole	mg/kg	-	-	-	-	-	-	17 U
Methapyrilene	mg/kg	-	-	-	-	-	-	42 U
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	8.7 U
Naphthalene	mg/kg	-	-	-	-	-	-	8.7 U
Nitrobenzene	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	8.7 U
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	8.7 U
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	8.7 U
Pentachloroethane	mg/kg	-	-	-	-	-	-	42 U
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	42 U
Pentachlorophenol	mg/kg	-	-	-	-	-	-	8.7 U
Phenacetin	mg/kg	-	-	-	-	-	-	17 U
Phenanthrene	mg/kg	-	-	-	-	-	-	8.7 U
Phenol	mg/kg	-	-	-	-	-	-	8.7 U
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	87 U
Pronamide	mg/kg	-	-	-	-	-	-	17 U
Pyrene	mg/kg	-	-	-	-	-	-	8.7 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft Excavated*	*(0.66-2.66) ft*
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	17 U
Safrole	mg/kg	-	-	-	-	-	-	8.7 U
Metals								
Aluminum	mg/kg	4630	2900	-	5990	7570	8760	-
Antimony	mg/kg	1.2 U	1.1 U	-	0.224 UJ	1.1 U	1.1 UJ	1.1 UJ
Arsenic	mg/kg	13.5	5.7	-	7.13	9	8.4	3.7
Barium	mg/kg	47.5	17.6	-	66.5	53.8	79	20.5 J
Beryllium	mg/kg	0.82	0.35 J	-	0.525	0.48 J	0.5 J	0.21 J
Cadmium	mg/kg	0.13 J	0.15 J	-	0.142	0.16 J	0.2 J	0.16 J
Calcium	mg/kg	32500	24500	-	94500	27100	57500 J	-
Chromium	mg/kg	8.4	47.1	-	17.6	22.7	14.6	9.7
Chromium III (Trivalent)	mg/kg	8.4	46.229	-	17.6	22.7	14.6	7.363
Chromium VI (hexavalent)	mg/kg	0.7 U	0.871	-	0.7 U	0.7 U	0.7 U	2.337
Cobalt	mg/kg	3.6	5.5	-	8.1	7.2	8.4	2.7
Copper	mg/kg	10.6	10.4	-	20.4	11.7	15.2	7.3
Iron	mg/kg	16400	8540	-	12900	16500	18900	-
Lead	mg/kg	7.7	7.1	-	8.52	8.7	8.7	4.1
Magnesium	mg/kg	10700	8940	-	5480	11100	21500	-
Manganese	mg/kg	234	205	-	241	283	428	-
Mercury	mg/kg	0.033 J	0.027 J	-	0.0122 J	0.047 U	0.012 J	0.0052 J
Nickel	mg/kg	9.9	15.3	-	48.9	17.1	18.8	11.8 J
Potassium	mg/kg	1030	471	-	822	1230	1880	-
Selenium	mg/kg	1 J	0.26 J	-	0.468 J	0.33 J	0.18 J	0.13 J
Silver	mg/kg	0.043 J	0.064 J	-	0.0603 J	0.057 J	0.1 J	0.026 J
Sodium	mg/kg	596 U	551 U	-	1420	563 U	1200	-
Thallium	mg/kg	0.81	0.14 J	-	0.163	0.15 J	0.081 J	0.06 J
Tin	mg/kg	-	-	-	-	-	-	5.3 U
Vanadium	mg/kg	17.5	11	-	18.1	21.2	26	13.2
Zinc	mg/kg	39.8	43.1	-	60.8	44.3	55.9	25
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	0.035 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	0.035 U
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-20-00*	*BH-9-20-00*	*BH-9-2-02*	*BH-9-21B-00*	*BH-9-22C-00*	*BH-9-23-00*	*BH-9-24-00*
Sample ID:		*S-12636-060700-DRD-086*	*S-12636-060700-DRD-087*	*S-12636-062602-DD-006*	*S-12636-070800-DRD-152*	*S-12636-061200-DRD-091*	*S-12636-060500-DRD-064*	*S-12636-060200-DRD-052*
Sample Date:		*6/7/2000*	*6/7/2000*	*6/26/2002*	*7/8/2000*	*6/12/2000*	*6/5/2000*	*6/2/2000*
Sample Depth:		*(0.42-2.42) ft*	*(15-16) ft*	*(0.5-2.5) ft bgs*	*(2-4) ft bgs*	*(0.83-2.83) ft*	*(0.5-2.5) ft Excavated*	*(0.66-2.66) ft*
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.596 U	0.551 U	-	0.56 U	0.563 U	0.564 UJ	0.525 U
Percent moisture	%	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	87 J
Total solids	%	83.9	90.8	78.8	89.3	88.9	88.7	95.2

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1,2-Trichloroethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1-Dichloroethane	mg/kg	0.0048 U	0.0045 U	0.28 J	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,1-Dichloroethene	mg/kg	0.0048 U	0.00091 J	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2-Dichlorobenzene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2-Dichloroethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,3-Dichlorobenzene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,4-Dichlorobenzene	mg/kg	0.0004 J	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.019 U	0.018 U	1.8 UJ	0.0014 J	0.018 U	0.017 U	0.018 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.019 U	0.018 U	1.8 UJ	0.017 U	0.018 U	0.017 U	0.018 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.019 U	0.018 U	0.17 J	0.017 U	0.018 U	0.017 U	0.018 U
Acetone	mg/kg	0.019 U	0.0042 J	1.8 UJ	0.0046 J	0.018 U	0.0039 J	0.0056 J
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	0.0048 U	0.0045 U	0.64 J[e]	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Bromodichloromethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Bromoform	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Bromomethane (Methyl bromide)	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Carbon disulfide	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Carbon tetrachloride	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Chlorobenzene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Chloroethane	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Chloroform (Trichloromethane)	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Chloromethane (Methyl chloride)	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.00066 J	0.00061 J	0.22 UJ	0.0021 U	0.0023 U	0.0021 U	0.0023 U
cis-1,3-Dichloropropene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Cyclohexane	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Dibromochloromethane	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.0048 U	0.0045 U	3.8 J[e]	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.0048 U	0.0045 U	0.11 J	0.0043 U	0.0045 U	0.0042 U	0.0045 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.019 U	0.018 U	1.8 UJ	0.017 U	0.018 U	0.017 U	0.018 U
Methylene chloride	mg/kg	0.0048 U	0.00049 J	0.29 J[e]	0.0011 J	0.0045 U	0.0042 U	0.0045 U
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Tetrachloroethene	mg/kg	0.0032 J	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Toluene	mg/kg	0.0048 U	0.0045 U	1.2 J	0.00028 J	0.00052 J	0.0042 U	0.0045 U
trans-1,2-Dichloroethene	mg/kg	0.0024 U	0.0022 U	0.22 UJ	0.0021 U	0.0023 U	0.0021 U	0.0023 U
trans-1,3-Dichloropropene	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.016	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0048 U	0.0045 U	0.44 UJ	0.0043 U	0.0045 U	0.0042 U	0.0045 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.0096 U	0.0089 U	0.89 UJ	0.0086 U	0.0091 U	0.0083 U	0.0091 U
Xylene (total)	mg/kg	0.0096 U	0.00078 J	9.8 J[e]	0.0086 U	0.00068 J	0.0083 U	0.0091 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	*Units*							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	*Units*							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	2700	8270	4760	7930	2740	7620	7930
Antimony	mg/kg	1.1 UJ	1.1 UJ	33.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Arsenic	mg/kg	3	6.5	13.5 J	6.9	4.9	8	6.7
Barium	mg/kg	17.5	93.7	2310[e]	50.1	14.7	126	52.3
Beryllium	mg/kg	0.17 J	0.42 J	16.6 U	0.43 J	0.18 J	0.49 J	0.48 J
Cadmium	mg/kg	0.066 J	0.072 J	9.7 J[e]	0.15 J	0.12 J	0.14 J	0.23 J
Calcium	mg/kg	138000 J	54500 J	11500	51900	32700	57800	55000
Chromium	mg/kg	916	25.4	49700	14.9	5.8	14.3	14.2
Chromium III (Trivalent)	mg/kg	916	25.4	49088.72	14.9	5.68	14.3	13.96
Chromium VI (hexavalent)	mg/kg	0.7 U	0.7 U	611.28[ce]	0.08 U	0.12	0.7 U	0.24
Cobalt	mg/kg	4.8	7.8	129 J[e]	8.1 J	3.4 J	8.6 J	8.6 J
Copper	mg/kg	12.8	12.2	939	12.9	8.5	13.2	15.5
Iron	mg/kg	20400	18400	30000[e]	18300	8970	17400	18100
Lead	mg/kg	4.4	7.1	28100[be]	7.7	5.8	10.5	8.7
Magnesium	mg/kg	36500[e]	21300	862	22600	11200	25900	23000
Manganese	mg/kg	304	322	376	341	193	325	315
Mercury	mg/kg	0.067	0.027 J	1.8[e]	0.0093 J	0.01 J	0.016 J	0.0092 J
Nickel	mg/kg	249[e]	20.9	89600[ce]	60.7	9	21.9	22.3
Potassium	mg/kg	320 U	339 U	498 U	338 U	336 U	343 U	340 U
Selenium	mg/kg	0.23 J	0.21 J	4.8 J[e]	0.27 J	0.18 J	0.11 J	0.23 J
Silver	mg/kg	0.28 J	0.067 J	3.4 J	0.062 J	0.029 J	0.063 J	0.062 J
Sodium	mg/kg	533 U	565 U	830 U	564 U	561 U	571 U	566 U
Thallium	mg/kg	0.012 J	0.12 J	16.6 U	0.17 J	0.086 J	0.2 J	0.21 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	15	23.2	28.1	22.8	10.5	22	23.1
Zinc	mg/kg	101	37.3	18500[e]	43	31.5	45.9	119
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-25-00*	*BH-9-25-00*	*BH-9-26-00*	*BH-9-26A-00*	*BH-9-27-00*	*BH-9-28-00*	*BH-9-29-00*
Sample ID:		*S-12636-060600-KMV-109*	*S-12636-060600-KMV-110*	*S-12636-060500-KMV-101*	*S-12636-060500-KMV-102*	*S-12636-060500-KMV-107*	*S-12636-060500-KMV-105*	*S-12636-060500-KMV-103*
Sample Date:		*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*	*6/5/2000*
Sample Depth:		*(0.8-1.8) ft*	*(6-) ft*	*(1-2) ft*	*(1-2) ft*	*(1-2) ft*	*(1.5-2) ft*	*(1-2) ft*
				Excavated	*Excavated*			
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.533 U	0.565 U	0.83 U	5.64 U G	0.561 U	0.571 U	0.566 U
Percent moisture	%	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	93.8	88.4	60.3	88.7	89.2	87.6	88.3

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,1,2-Trichloroethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,1-Dichloroethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,1-Dichloroethene	mg/kg	0.0046 UJ	0.0007 J	0.0008 J	0.0058 U	0.069	0.0043 U	0.0013 J
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,2-Dichlorobenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,2-Dichloroethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,3-Dichlorobenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,4-Dichlorobenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.018 UJ	0.025 U	0.03 U	0.023 U	-	0.017 U	0.018 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.018 UJ	0.025 U	0.03 U	0.023 U	-	0.017 U	0.018 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.018 UJ	0.025 U	0.03 U	0.023 U	-	0.017 U	0.018 U
Acetone	mg/kg	0.0061 J	0.006 J	0.0036 J	0.0029 J	-	0.017 U	0.018 U
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	0.0008 J	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Bromodichloromethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Bromoform	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Bromomethane (Methyl bromide)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Carbon disulfide	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Carbon tetrachloride	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Chlorobenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Chloroethane	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Chloroform (Trichloromethane)	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Chloromethane (Methyl chloride)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.0023 UJ	0.0031 U	0.0037 U	0.0029 U	-	0.0021 U	0.0023 U
cis-1,3-Dichloropropene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Cyclohexane	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Dibromochloromethane	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.018 UJ	0.025 U	0.03 U	0.023 U	-	0.017 U	0.018 U
Methylene chloride	mg/kg	0.0046 UJ	0.0012 J	0.00098 J	0.0058 U	-	0.00042 J	0.0046 U
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	0.0046 UJ	0.0063 U	0.0014 J	0.0058 U	-	0.0043 U	0.0046 U
Tetrachloroethene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Toluene	mg/kg	0.001 J	0.00052 J	0.0014 J	0.00036 J	-	0.0043 U	0.0046 U
trans-1,2-Dichloroethene	mg/kg	0.0023 UJ	0.0031 U	0.0037 U	0.0029 U	-	0.0021 U	0.0023 U
trans-1,3-Dichloropropene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0046 UJ	0.0063 U	0.0074 U	0.0058 U	-	0.0043 U	0.0046 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Xylene (total)	mg/kg	0.0092 UJ	0.013 U	0.015 U	0.012 U	-	0.0086 U	0.0092 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	7780	8110	6610	2040	-	10700	8750
Antimony	mg/kg	1.1 U	1.1 UJ	1.1 UJ	1 U	-	1.2 UJ	1.2 UJ
Arsenic	mg/kg	6.6	3.9	5.3	5.1	-	10.2	8.3
Barium	mg/kg	44.5	40.8	60	11.1	-	73.1	56.4
Beryllium	mg/kg	0.44 J	0.14 J	0.22 J	0.15 J	-	0.5 J	0.49 J
Cadmium	mg/kg	0.12 J	0.15 J	0.19 J	0.1 J	-	0.073 J	0.13 J
Calcium	mg/kg	49300	46500 J	41500 J	15700	-	45800 J	56500 J
Chromium	mg/kg	14	6.9	10.9	5.2	-	16.2	15.9
Chromium III (Trivalent)	mg/kg	13.88	6.9	10.9	5.2	-	16.2	15.9
Chromium VI (hexavalent)	mg/kg	0.12	0.7 U	0.7 U	0.7 U	-	0.7 U	0.7 U
Cobalt	mg/kg	8.2 J	3.7	4.8	2.8 J	-	7	23.5[e]
Copper	mg/kg	12.7	22.3	21.8	7.4	-	13.2	13.5
Iron	mg/kg	17200	10900	15800	10100	-	22000	18700
Lead	mg/kg	7.5	10.2	11	4.9	-	8.8	8.7
Magnesium	mg/kg	21500	16000	14300	5070	-	19600	23100
Manganese	mg/kg	305	184	337	215	-	270	306
Mercury	mg/kg	0.017 J	0.03 J	0.036 U	0.019 J	-	0.025 J	0.031 J
Nickel	mg/kg	21.6	8.7	16.9	7.1	-	19.9	28.1
Potassium	mg/kg	340 U	1670	1390	311 U	-	353 U	360 U
Selenium	mg/kg	0.15 J	0.84 J	0.59 J	0.093 J	-	0.31 J	0.26 J
Silver	mg/kg	0.058 J	0.076 J	0.075 J	0.024 J	-	0.069 J	0.072 J
Sodium	mg/kg	567 U	373 J	483 J	519 U	-	588 U	600 U
Thallium	mg/kg	0.18 J	0.038 J	0.057 J	0.059 J	-	0.1 J	0.15 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	22.7	16.5	19.7	9.2	-	29.7	25.8
Zinc	mg/kg	40.3	10800[e]	5400[e]	28.3	-	45.2	45.8
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-29-00*	*BH-9-3-00*	*BH-9-3-00*	*BH-9-30-00*	*BH-9-3-02*	*BH-9-4-00*	*BH-9-4-00*
Sample ID:		*S-12636-060500-KMV-104*	*S-12636-060600-DRD-076*	*S-12636-060600-DRD-077*	*S-12636-060500-KMV-106*	*S-12636-062602-DD-008*	*S-12636-060600-DRD-072*	*S-12636-060600-DRD-073*
Sample Date:		*6/5/2000*	*6/6/2000*	*6/6/2000*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(10-) ft*	*(1.5-3.5) ft*	*(1.5-3.5) ft*	*(1-2) ft*	*(0.5-2.5) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
				Duplicate				*Duplicate*
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.567 U	0.532 U	0.55 U	0.519 U	-	0.588 U	0.6 U
Percent moisture	%	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	88.2	94.1	90.9	96.4	86.1	85.1	83.4

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs Duplicate*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,1,2-Trichloroethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,1-Dichloroethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,1-Dichloroethene	mg/kg	0.0083	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,2-Dichlorobenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,2-Dichloroethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,3-Dichlorobenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,4-Dichlorobenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	0.019 U	0.019 U	0.017 U	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	0.019 U	0.019 U	0.017 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	0.019 U	0.019 U	0.017 U	-	-
Acetone	mg/kg	-	-	0.019 U	0.019 U	0.017 U	-	-
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Bromodichloromethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Bromoform	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Carbon disulfide	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Carbon tetrachloride	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Chlorobenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Chloroethane	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Chloromethane (Methyl chloride)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	0.0024 U	0.0024 U	0.0021 U	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Cyclohexane	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Dibromochloromethane	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs Duplicate*
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	0.019 U	0.019 U	0.017 U	-	-
Methylene chloride	mg/kg	-	-	0.0016 J	0.0048 U	0.0042 U	-	-
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Tetrachloroethene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Toluene	mg/kg	-	-	0.0048 U	0.00026 J	0.0042 U	-	-
trans-1,2-Dichloroethene	mg/kg	-	-	0.0024 U	0.0024 U	0.0021 U	-	-
trans-1,3-Dichloropropene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	0.0048 U	0.0048 U	0.0042 U	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Xylene (total)	mg/kg	-	-	0.0096 U	0.0095 U	0.0084 U	-	-
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs*
								Duplicate
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs*
								Duplicate
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs Duplicate*
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	6350	3400	10000	-	-
Antimony	mg/kg	-	-	0.234 UJ	1.1 U	1.1 UJ	-	-
Arsenic	mg/kg	-	-	9.97	2.6 J	6.7	-	-
Barium	mg/kg	-	-	53.2	23.6	52.2	-	-
Beryllium	mg/kg	-	-	0.435	0.14 J	0.53 J	-	-
Cadmium	mg/kg	-	-	0.165	0.1 J	0.15 J	-	-
Calcium	mg/kg	-	-	54900	919	49500 J	-	-
Chromium	mg/kg	-	-	13	6.2	17	-	-
Chromium III (Trivalent)	mg/kg	-	-	13	6.2	17	-	-
Chromium VI (hexavalent)	mg/kg	-	1.23 U	0.7 U	0.7 U	0.7 U	1.3 U	1.29 U
Cobalt	mg/kg	-	-	9.83	2.8	7.9	-	-
Copper	mg/kg	-	-	14.4	3.5	15.3	-	-
Iron	mg/kg	-	-	16800	7900	19300	-	-
Lead	mg/kg	-	-	9.05	4.9	8.6	-	-
Magnesium	mg/kg	-	-	27000	982	21700	-	-
Manganese	mg/kg	-	-	336	178	267	-	-
Mercury	mg/kg	-	-	0.0139 J	0.018 J	0.01 J	-	-
Nickel	mg/kg	-	-	22.3	6.1	20	-	-
Potassium	mg/kg	-	-	1230	267 J	2200	-	-
Selenium	mg/kg	-	-	0.586 U	0.13 J	0.38 J	-	-
Silver	mg/kg	-	-	0.0787 J	0.014 J	0.062 J	-	-
Sodium	mg/kg	-	-	586 U	542 U	257 J	-	-
Thallium	mg/kg	-	-	0.224	0.036 J	0.19 J	-	-
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	17.4	12.5	29.1	-	-
Zinc	mg/kg	-	-	65.2	28.8	47.3	-	-
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-4-02*	*BH-9-5-02*	*BH-9-5C-00*	*BH-9-5E-00*	*BH-9-6-00*	*BH-9-6-02*	*BH-9-6-02*
Sample ID:		*S-12636-062602-DD-010*	*S-12636-062602-DD-012*	*S-12636-070800-DRD-150*	*S-12636-060700-DRD-089*	*S-12636-060500-DRD-068*	*S-12636-062602-DD-014*	*S-12636-062602-DD-015*
Sample Date:		*6/26/2002*	*6/26/2002*	*7/8/2000*	*6/7/2000*	*6/5/2000*	*6/26/2002*	*6/26/2002*
Sample Depth:		*(0.5-2.5) ft bgs*	*(0.66-2.66) ft bgs*	*(4-6) ft bgs*	*(0.75-2.75) ft*	*(0.33-2.33) ft*	*(0.66-2.66) ft bgs*	*(0.66-2.66) ft bgs*
								Duplicate
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	0.586 U	0.542 U	0.562 U	-	-
Percent moisture	%	-	23.4	-	-	-	29.9	22.6
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	87.2	-	85.3	92.2	88.9	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,1,2-Trichloroethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,1-Dichloroethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,1-Dichloroethene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,2-Dichlorobenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,2-Dichloroethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,3-Dichlorobenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
1,4-Dichlorobenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.00037 J
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.019 U	0.017 U	-	0.021 U	-	0.0045 J	0.0037 J
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.019 U	0.017 U	-	0.021 U	-	0.017 U	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.019 U	0.017 U	-	0.021 U	-	0.017 U	0.017 U
Acetone	mg/kg	0.019 U	0.017 U	-	0.021 U	-	0.02	0.02
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Bromodichloromethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Bromoform	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Bromomethane (Methyl bromide)	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Carbon disulfide	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Carbon tetrachloride	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Chlorobenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Chloroethane	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Chloroform (Trichloromethane)	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Chloromethane (Methyl chloride)	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.0023 U	0.0021 U	-	0.0027 U	-	0.0022 U	0.0022 U
cis-1,3-Dichloropropene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Cyclohexane	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Dibromochloromethane	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.019 U	0.017 U	-	0.021 U	-	0.017 U	0.017 U
Methylene chloride	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.00058 J	0.0043 U
o-Xylene	mg/kg	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Tetrachloroethene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Toluene	mg/kg	0.0046 U	0.00058 J	-	0.0009 J	-	0.00056 J	0.00063 J
trans-1,2-Dichloroethene	mg/kg	0.0023 U	0.0021 U	-	0.0027 U	-	0.0022 U	0.0022 U
trans-1,3-Dichloropropene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0046 U	0.0042 U	-	0.0053 U	-	0.0044 U	0.0043 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.0093 U	0.0084 U	-	0.011 U	-	0.0087 U	0.0086 U
Xylene (total)	mg/kg	0.0093 U	0.0084 U	-	0.00094 J	-	0.0087 U	0.0086 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	11300	10200	-	1900	-	7290	8620
Antimony	mg/kg	1.1 UJ	1.1 UJ	-	1 UJ	-	1.1 UJ	1.1 UJ
Arsenic	mg/kg	7.8	7.2	-	3.8	-	7.9	5.9
Barium	mg/kg	42.9	50.1	-	10.7	-	56	96.3
Beryllium	mg/kg	0.71	0.6	-	0.12 J	-	0.37 J	0.34 J
Cadmium	mg/kg	0.15 J	0.15 J	-	0.084 J	-	0.096 J	0.13 J
Calcium	mg/kg	51900 J	49900 J	-	10000 J	-	47900 J	64100 J
Chromium	mg/kg	19.7	18.8	-	3.9	-	13.4	12.6
Chromium III (Trivalent)	mg/kg	19.7	18.8	-	3.781853	-	13.4	12.6
Chromium VI (hexavalent)	mg/kg	0.7 U	0.7 U	1.24 U	0.118147	1.15 U	0.7 U	0.7 U
Cobalt	mg/kg	7	6.7	-	2	-	8.5	9
Copper	mg/kg	15.4	14.9	-	4.8	-	13.3	11.8
Iron	mg/kg	21200	20200	-	5860	-	16400	17000
Lead	mg/kg	9.7	9.4	-	4.1	-	7.4	7.1
Magnesium	mg/kg	23200	21700	-	2870	-	17200	19500
Manganese	mg/kg	229	213	-	118	-	288	386
Mercury	mg/kg	0.011 J	0.011 J	-	0.0077 J	-	0.027 J	0.037 U
Nickel	mg/kg	20.5	19.1	-	5.1	-	20.3	17.7
Potassium	mg/kg	2480	2170	-	245 J	-	341 U	341 U
Selenium	mg/kg	0.16 J	0.28 J	-	0.14 J	-	0.22 J	0.28 J
Silver	mg/kg	0.071 J	0.054 J	-	0.013 J	-	0.059 J	0.062 J
Sodium	mg/kg	284 J	242 J	-	162 J	-	568 U	568 U
Thallium	mg/kg	0.098 J	0.18 J	-	0.52 U	-	0.13 J	0.12 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	31.2	30.6	-	8.1	-	20.9	21.3
Zinc	mg/kg	54.1	51.7	-	22.2	-	223	354
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-
Pesticides								
Total PCBs	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-9-7-00*	*BH-9-7-00*	*BH-9-7-02*	*BH-9-8-00*	*BH-9-8-02*	*BH-9-9-00*	*BH-9-9-00*
Sample ID:		*S-12636-060500-DRD-066*	*S-12636-060500-DRD-067*	*S-12636-062602-DD-017*	*S-12636-060500-DRD-065*	*S-12636-062602-DD-019*	*S-12636-060600-DRD-074*	*S-12636-060600-DRD-075*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/26/2002*	*6/5/2000*	*6/26/2002*	*6/6/2000*	*6/6/2000*
Sample Depth:		*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.66-2.66) ft bgs*	*(4-6) ft*	*(0.66-2.66) ft bgs*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
			Duplicate					*Duplicate*
Parameters:	***Units***							
Petroleum Products								
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.574 UJ	0.568 U	-	0.516 UJ	-	0.568 U	0.568 U
Percent moisture	%	-	-	24.1	-	15.1	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	87.1	88.0	-	96.8	-	88.1	88.1

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,1,2-Trichloroethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,1-Dichloroethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,1-Dichloroethene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,2-Dichlorobenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,2-Dichloroethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,3-Dichlorobenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,4-Dichlorobenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.013 J	0.022 U	0.019 U	0.018 UJ	0.017 U	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	0.0061 J	0.022 U	0.019 U	0.018 UJ	0.017 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.023 UJ	0.022 U	0.019 U	0.018 UJ	0.017 U	-	-	-
Acetone	mg/kg	0.051 J	0.022 U	0.019 U	0.018 UJ	0.017 U	-	-	-
Acetonitrile	mg/kg	-	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-	-
Benzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Bromodichloromethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Bromoform	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Bromomethane (Methyl bromide)	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Carbon disulfide	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Carbon tetrachloride	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Chlorobenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Chloroethane	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Chloroform (Trichloromethane)	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Chloromethane (Methyl chloride)	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Chloroprene	mg/kg	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.0029 UJ	0.0028 U	0.0023 U	0.0022 UJ	0.0021 U	-	-	-
cis-1,3-Dichloropropene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Cyclohexane	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Dibromochloromethane	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Dibromomethane	mg/kg	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Iodomethane	mg/kg	-	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.023 UJ	0.022 U	0.019 U	0.018 UJ	0.017 U	-	-	-
Methylene chloride	mg/kg	0.01 J	0.0017 J	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
o-Xylene	mg/kg	-	-	-	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-	-
Styrene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Tetrachloroethene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Toluene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
trans-1,2-Dichloroethene	mg/kg	0.0029 UJ	0.0028 U	0.0023 U	0.0022 UJ	0.0021 U	-	-	-
trans-1,3-Dichloropropene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0058 UJ	0.0056 U	0.0046 U	0.0045 UJ	0.0042 U	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.012 UJ	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Xylene (total)	mg/kg	0.0031 J	0.011 U	0.0093 U	0.009 UJ	0.0084 U	-	-	-
Semi-volatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	-	-
Aramite	mg/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	-	-
Diallate	mg/kg	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
Pyridine	mg/kg	-	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-	-
Metals									
Aluminum	mg/kg	5290	2080	9880	11800	8370	-	-	-
Antimony	mg/kg	0.316 J	0.231 UJ	0.238 UJ	0.239 UJ	0.231 UJ	-	-	-
Arsenic	mg/kg	4.22	2.9	5.97	6.8	5.38	3.25	3.36	4.2
Barium	mg/kg	47.3	9.91	51.5	142	45.7	9.42	33.1	36
Beryllium	mg/kg	0.235	0.101 J	0.514	0.598	0.409	-	-	-
Cadmium	mg/kg	1.2	0.0869 J	0.136	0.13	0.111 J	U	U	0.11
Calcium	mg/kg	98500	26300	50000	67900	44600	-	-	-
Chromium	mg/kg	119[e]	6.99	43.8[e]	19	13	5.47	11.2	11
Chromium III (Trivalent)	mg/kg	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-
Cobalt	mg/kg	6.27	2.01	7.04	8.61	5.96	-	-	-
Copper	mg/kg	60 J	4.53 J	11 J	12.3 J	9.18 J	U	U	13
Iron	mg/kg	18100	5680	16200	19200	15100	-	-	-
Lead	mg/kg	119	3.41	8.8	9.02	6.48	U	4.99	7.2
Magnesium	mg/kg	13500	8070	19500	23200	18100	-	-	-
Manganese	mg/kg	241	149	291	374	295	-	-	-
Mercury	mg/kg	0.0306 J	0.004 J	0.0089 J	0.0105 J	0.0079 J	U	U	0.1 U
Nickel	mg/kg	222[e]	4.74	32.1	21.4	15	-	-	-
Potassium	mg/kg	1070	308 J	2370	2820	2010	-	-	-
Selenium	mg/kg	0.579 U	0.0328 J	0.595 U	0.597 U	0.577 U	U	U	0.52
Silver	mg/kg	6.49	0.0253 J	0.07 J	0.0823 J	0.0604 J	U	U	0.5 U
Sodium	mg/kg	146 J	578 U	595 U	597 U	577 U	-	-	-
Thallium	mg/kg	0.0357 J	0.0536 J	0.239	0.223	0.154	-	-	-
Tin	mg/kg	-	-	-	-	-	-	-	-
Vanadium	mg/kg	12.2	8.88 J	25.9	30.6	23.3	-	-	-
Zinc	mg/kg	207	19.4	50.4	42.3	30.6	U	U	40
Polychlorinated Biphenyls									
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-	-
Pesticides									
Total PCBs	mg/kg	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*BH-26A-01*	*BH-26B-01*	*BH-26C-01*	*BH-26D-01*	*BH-26D-01*	*F-30*	*F-34*	*F-34*
Sample ID:		*S-12636-030501-DRD-009*	*S-12636-030501-DRD-007*	*S-12636-030501-DRD-008*	*S-12636-030501-DRD-010*	*S-12636-030501-DRD-011*	*F-30 (0-2)*	*F-34*	*S-8692-111496-SF-013*
Sample Date:		*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*5/3/2001*	*11/6/1996*	*11/14/1996*	*11/14/1996*
Sample Depth:		*(4-6) ft*	*(0-1) ft*	*(4-6) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*-*	*-*
						Duplicate			*other*
Parameters:	***Units***								
Petroleum Products									
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	U	-	-
General Chemistry									
Cyanide (total)	mg/kg	0.807	0.578 U	0.595 U	0.597 U	0.577 U	31.8[e]	U	0.2 U
Percent moisture	%	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-
Total solids	%	86.4	86.4	84.1	83.8	86.7	-	-	88.8

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs Excavated*	*- Excavated*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
Parameters:	*Units*												
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.42	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1,2-Trichloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,1-Dichloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.097	0.01 U
1,1-Dichloroethene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.01 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-Hexanone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acetonitrile	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bromodichloromethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bromoform	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlorobenzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chloroprene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs*	*-*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
					Excavated	*Excavated*							
Parameters:	***Units***												
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iodomethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/kg	-	-	-	-	-	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Methyl acetate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
o-Xylene	mg/kg	-	-	-	-	-	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.017	0.01 U
trans-1,2-Dichloroethene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Semi-volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs*	*-*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
					Excavated	*Excavated*							
Parameters:	***Units***												
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Picoline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Acenaphthylene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Acetophenone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Aramite	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(a)pyrene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs*	*-*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
					Excavated	*Excavated*							
Parameters:	***Units***												
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Diallate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethoate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Fluorene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Isophorone	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isosafrole	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenacetin	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Phenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs Excavated*	*- Excavated*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
Parameters:	***Units***												
Pyridine	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	5.19	2.95	3.06	-	10.7	6	6	8	7	9	9	12
Barium	mg/kg	57.7	10.4	10.3	-	325	44	36	54	74	88	81	100
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	U	U	U	-	6.05[e]	0.81	0.86	0.83	0.86	0.9	0.67	0.82
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	12.5	42.8[e]	9.72	25.9	1160[te]	15	10	18	20	18	25	20
Chromium III (Trivalent)	mg/kg	-	-	-	23.84	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	2.06	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	U	U	U	-	U	17	11	14	15	17	16	16
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	7	5.03	U	-	1280[te]	16	17	17	19	17	18	19
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	U	U	U	-	0.09	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	U	U	U	-	0.649	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	mg/kg	U	U	U	-	2.97	0.6	0.9	0.8	0.9	0.8	0.8	1
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Tin	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	U	U	U	-	U	41	49	42	43	56	45	48
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
Total PCBs	mg/kg	-	-	-	-	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U

APPENDIX B.1
AOI 09
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*	*AOI 09*
Sample Location:		*K-2*	*K-32*	*K-33*	*K-35*	*K-35*	*PFB-16*	*PFB-17*	*PFB-18*	*PFB-19*	*PFB-20*	*PFW-12*	*PFW-12*
Sample ID:		*K-2*	*K-32*	*K-33*	*S-12636-022103-DD-001*	*K-35*	*PFB-16 3.3-3.9*	*PFB-17 5.2-6.0*	*PFB-18 1.4-2.0*	*PFB-19 1.0-1.6*	*PFB-20 1.6-2.3*	*PFW-12 0.8-1.3*	*PFW-12 6.2-6.7*
Sample Date:		*11/6/1996*	*11/6/1996*	*11/6/1996*	*2/21/2003*	*11/6/1996*	*3/25/1997*	*3/25/1997*	*3/26/1997*	*3/26/1997*	*3/26/1997*	*3/21/1997*	*3/21/1997*
Sample Depth:		*-*	*-*	*-*	*(0.5-2.5) ft bgs*	*-*	*(3.3-3.9) ft*	*(5.2-6) ft*	*(1.4-2) ft*	*(1-1.6) ft*	*(1.6-2.3) ft*	*(0.8-1.3) ft*	*(5.2-6.7) ft*
					Excavated	*Excavated*							
Parameters:	***Units***												
Petroleum Products													
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	U	U	-	-	-	-	-	-	-	-	-	-
Percent moisture	%	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	81.6	-	90.11	95.06	90.10	88.77	90.21	86.83	88.64

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-1-00*	*BH-11-1-02*	*BH-11-1-02*	*BH-11-2-00*	*BH-11-3-00*	*BH-11-3-00*
Sample ID:									*S-12636-053000-DRD-013*	*S-12636-062702-DD-055*	*S-12636-062702-DD-056*	*S-12636-053000-DRD-014*	*S-12636-053000-DRD-015*	*S-12636-053000-DRD-016*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(2.5-4.5) ft*	*(0-2) ft*	*(0-2) ft*	*(1-3) ft*	*(2-4) ft*	*(2-4) ft*
									Excavated		*Duplicate*			*Duplicate*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*						
Semi-volatile Organic Compounds														
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.37 J	-	-	0.37 U	0.37 U	0.36 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	-	-	1.8 U	1.8 U	1.8 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.059 U	-	-	0.056 U	0.056 U	0.055 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.39 U	-	-	0.37 U	0.37 U	0.36 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.052 J	-	-	0.37 U	0.37 U	0.36 U

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-1-00*	*BH-11-1-02*	*BH-11-1-02*	*BH-11-2-00*	*BH-11-3-00*	*BH-11-3-00*
Sample ID:									*S-12636-053000-DRD-013*	*S-12636-062702-DD-055*	*S-12636-062702-DD-056*	*S-12636-053000-DRD-014*	*S-12636-053000-DRD-015*	*S-12636-053000-DRD-016*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(2.5-4.5) ft*	*(0-2) ft*	*(0-2) ft*	*(1-3) ft*	*(2-4) ft*	*(2-4) ft*
									Excavated		*Duplicate*			*Duplicate*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***						
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.084 J	-	-	0.37 U	0.37 U	0.36 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.085 J	-	-	0.37 U	0.37 U	0.36 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.12 U	-	-	0.11 U	0.11 U	0.11 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.21 J	-	-	0.37 U	0.37 U	0.36 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.39 U	-	-	0.37 U	0.37 U	0.36 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.2 J	-	-	0.37 U	0.37 U	0.36 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.39 U	-	-	0.37 U	0.37 U	0.36 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.067 J	-	-	0.37 U	0.37 U	0.36 U
Metals														
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	16400[e]	-	-	11300	12500	11700
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.2 UJ	-	-	0.17 J	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	131[de]	6.33 J	7 J	10.2	9.1	8.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	21.2	-	-	81.6	82.8	72
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	5.8	-	-	0.68	0.77	0.67
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.58 J	-	-	0.12 J	0.19 J	0.2 J
Calcium	mg/kg	-	88000	-	-	-	-	-	60600	-	-	25600	2250	29100
Chromium	mg/kg	18	19	9200	240	-	30	-	35.1	-	-	16.9	18.7	17.8
Chromium III (Trivalent)	mg/kg	18	-	1000000	150000	-	1000000	-	28.14	-	-	16.9	18.7	17.8
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	6.96	-	-	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.1	-	-	11.5	8.8	9.1
Copper	mg/kg	32	32	73000	59000	-	5800	-	134	-	-	16.6	14	13.7
Iron	mg/kg	12000	27900	580000	-	-	6	-	90600[e]	-	-	21900	28700[e]	20400
Lead	mg/kg	21	21	900	44000	-	700	-	7.1	-	-	10.6	10.8	10.6
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	5610 J	-	-	18500 J	3540 J	13400 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	72.5	-	-	384	357	387
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.018 J	-	-	0.023 J	0.025 J	0.023 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	22.6	-	-	23.3	21.4	21
Potassium	mg/kg	-	2300	-	-	-	-	-	530	-	-	1560	1380	1490

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:									*BH-11-1-00*	*BH-11-1-02*	*BH-11-1-02*	*BH-11-2-00*	*BH-11-3-00*	*BH-11-3-00*
Sample ID:									*S-12636-053000-DRD-013*	*S-12636-062702-DD-055*	*S-12636-062702-DD-056*	*S-12636-053000-DRD-014*	*S-12636-053000-DRD-015*	*S-12636-053000-DRD-016*
Sample Date:									*5/30/2000*	*6/27/2002*	*6/27/2002*	*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(2.5-4.5) ft*	*(0-2) ft*	*(0-2) ft*	*(1-3) ft*	*(2-4) ft*	*(2-4) ft*
									Excavated		*Duplicate*			*Duplicate*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***						
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	10.6[e]	-	-	0.27 J	0.24 J	0.33 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.16 J	-	-	0.18 J	0.067 J	0.065 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	594 U	-	-	558 U	565 U	553 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.26 J	-	-	0.2 J	0.17 J	0.19 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	14.5 J	-	-	29.1 J	34.3 J	28.6 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	87.6	-	-	51.7	52.7	55.2
Polychlorinated Biphenyls														
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.039 U	-	-	0.037 U	0.037 U	0.036 U
General Chemistry														
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.594 U	-	-	0.558 U	0.565 U	0.553 U
Percent moisture	%	-	-	-	-	-	-	-	-	19.1	10.6	-	-	-
Total solids	%	-	-	-	-	-	-	-	84.1	-	-	89.7	88.6	90.4

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:		*BH-11-3-00*	*BH-11-4-00*	*BH-11-4-02*	*BH-11-5-00*	*BH-11-6-02*	*BH-11-7-02*	*PFB-23*	*PFB-24*
Sample ID:		*S-12636-053000-DRD-017*	*S-12636-053000-DRD-018*	*S-12636-062702-DD-062*	*S-12636-053000-DRD-020*	*S-12636-062702-DD-066*	*S-12636-062702-DD-068*	*PFB-23 5.8-7*	*PFB-24 1.2-2.5*
Sample Date:		*5/30/2000*	*5/30/2000*	*6/27/2002*	*5/30/2000*	*6/27/2002*	*6/27/2002*	*4/24/1997*	*4/24/1997*
Sample Depth:		*(8.33-9.75) ft*	*(1.5-2.5) ft*	*(0-2) ft*	*(1-3) ft*	*(0-2) ft*	*(0-2) ft*	*(5.8-7) ft*	*(1.2-2.5) ft*
Parameters:	***Units***								
Semi-volatile Organic Compounds									
2,2'-Oxybis(2-chloropropane)	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,4-Dichlorophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,4-Dimethylphenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,4-Dinitrophenol	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
2,4-Dinitrotoluene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2,6-Dinitrotoluene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2-Chloronaphthalene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2-Chlorophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2-Methylnaphthalene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2-Methylphenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
2-Nitroaniline	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
2-Nitrophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
3-Nitroaniline	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
4-Chloroaniline	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
4-Methylphenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
4-Nitroaniline	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
4-Nitrophenol	mg/kg	20 U	1.8 U	-	1.8 U	-	-	-	-
Acenaphthene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Acenaphthylene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Acetophenone	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Anthracene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Atrazine	mg/kg	0.61 U	0.056 U	-	0.056 U	-	-	-	-
Benzaldehyde	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Benzo(a)anthracene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	2.2
Benzo(a)pyrene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Benzo(b)fluoranthene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Benzo(g,h,i)perylene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Benzo(k)fluoranthene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Biphenyl (1,1-Biphenyl)	mg/kg	1.7 J	0.37 U	-	0.37 U	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Caprolactam	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Carbazole	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Chrysene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	4.8

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:		*BH-11-3-00*	*BH-11-4-00*	*BH-11-4-02*	*BH-11-5-00*	*BH-11-6-02*	*BH-11-7-02*	*PFB-23*	*PFB-24*
Sample ID:		*S-12636-053000-DRD-017*	*S-12636-053000-DRD-018*	*S-12636-062702-DD-062*	*S-12636-053000-DRD-020*	*S-12636-062702-DD-066*	*S-12636-062702-DD-068*	*PFB-23 5.8-7*	*PFB-24 1.2-2.5*
Sample Date:		*5/30/2000*	*5/30/2000*	*6/27/2002*	*5/30/2000*	*6/27/2002*	*6/27/2002*	*4/24/1997*	*4/24/1997*
Sample Depth:		*(8.33-9.75) ft*	*(1.5-2.5) ft*	*(0-2) ft*	*(1-3) ft*	*(0-2) ft*	*(0-2) ft*	*(5.8-7) ft*	*(1.2-2.5) ft*
Parameters:	***Units***								
Dibenz(a,h)anthracene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Dibenzofuran	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Diethyl phthalate	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Dimethyl phthalate	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Fluoranthene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	9.6
Fluorene	mg/kg	1.5 J	0.37 U	-	0.37 U	-	-	0.33 U	2.6
Hexachlorobenzene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Hexachlorobutadiene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Hexachloroethane	mg/kg	1.2 U	0.11 U	-	0.11 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Isophorone	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Naphthalene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	1.9
Nitrobenzene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Pentachlorophenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Phenanthrene	mg/kg	2.1 J	0.37 U	-	0.37 U	-	-	0.33 U	0.33 U
Phenol	mg/kg	4 U	0.37 U	-	0.37 U	-	-	-	-
Pyrene	mg/kg	4 U	0.37 U	-	0.37 U	-	-	0.33 U	27
Metals									
Aluminum	mg/kg	10600	9060	-	8220	-	-	-	-
Antimony	mg/kg	1.2 UJ	1.1 UJ	-	1.1 UJ	-	-	-	-
Arsenic	mg/kg	20.1[e]	8.8	14.5 J[e]	9.3	11.6 J	5.93 J	12	11
Barium	mg/kg	88.7	61.6	-	60.7	-	-	85	64
Beryllium	mg/kg	0.66	0.57	-	0.61	-	-	-	-
Cadmium	mg/kg	0.48 J	0.48 J	-	0.14 J	-	-	1.1	1.9
Calcium	mg/kg	3200	30000	-	52800	-	-	-	-
Chromium	mg/kg	17.9	15.6	-	15.7	-	-	23	19
Chromium III (Trivalent)	mg/kg	14.99	15.6	-	15.7	-	-	-	-
Chromium VI (hexavalent)	mg/kg	2.91	0.7 U	-	0.7 U	-	-	-	-
Cobalt	mg/kg	14.4[e]	8	-	7.6	-	-	-	-
Copper	mg/kg	29.5	16.2	-	14.7	-	-	16	14
Iron	mg/kg	38300[e]	18600	-	18000	-	-	-	-
Lead	mg/kg	22.6	11.2	-	8.3	-	-	16	19
Magnesium	mg/kg	2840 J	12800 J	-	20200 J	-	-	-	-
Manganese	mg/kg	331	377	-	358	-	-	-	-
Mercury	mg/kg	0.051	0.024 J	-	0.014 J	-	-	0.1 U	0.1 U
Nickel	mg/kg	37.5	27.8	-	21.1	-	-	-	-
Potassium	mg/kg	1450	1430	-	1590	-	-	-	-

APPENDIX B.1
AOI 11
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*	*AOI 11*
Sample Location:		*BH-11-3-00*	*BH-11-4-00*	*BH-11-4-02*	*BH-11-5-00*	*BH-11-6-02*	*BH-11-7-02*	*PFB-23*	*PFB-24*
Sample ID:		*S-12636-053000-DRD-017*	*S-12636-053000-DRD-018*	*S-12636-062702-DD-062*	*S-12636-053000-DRD-020*	*S-12636-062702-DD-066*	*S-12636-062702-DD-068*	*PFB-23 5.8-7*	*PFB-24 1.2-2.5*
Sample Date:		*5/30/2000*	*5/30/2000*	*6/27/2002*	*5/30/2000*	*6/27/2002*	*6/27/2002*	*4/24/1997*	*4/24/1997*
Sample Depth:		*(8.33-9.75) ft*	*(1.5-2.5) ft*	*(0-2) ft*	*(1-3) ft*	*(0-2) ft*	*(0-2) ft*	*(5.8-7) ft*	*(1.2-2.5) ft*
Parameters:	***Units***								
Selenium	mg/kg	0.76 J	0.24 J	-	0.064 J	-	-	0.5 U	0.5 U
Silver	mg/kg	0.096 J	0.069 J	-	0.057 J	-	-	0.5 U	1.2
Sodium	mg/kg	612 U	560 U	-	565 U	-	-	-	-
Thallium	mg/kg	0.3 J	0.18 J	-	0.14 J	-	-	-	-
Vanadium	mg/kg	31.7 J	24 J	-	22.4 J	-	-	-	-
Zinc	mg/kg	106	133	-	47.8	-	-	58	45
Polychlorinated Biphenyls									
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	0.04 U	0.037 U	-	0.037 U	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	0.612 U	0.56 U	-	0.565 U	-	-	-	-
Percent moisture	%	-	-	9.7	-	21.5	9.5	-	-
Total solids	%	81.7	89.2	-	88.6	-	-	87.13	89.88

APPENDIX B.1
AOI 12
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 12*	*AOI 12*	*AOI 12*
Sample Location:									*BH-12-1-00*	*BH-12-2-00*	*BH-12-2-00*
Sample ID:									*S-12636-053000-DRD-025*	*S-12636-053000-DRD-023*	*S-12636-053000-DRD-024*
Sample Date:									*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(1.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Excavated		*Duplicate*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0045 U	0.0045 U	0.0047 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0045 U	0.0045 U	0.0047 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0045 U	0.0045 U	0.0047 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0017 J	0.0045 U	0.0047 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0045 U	0.0045 U	0.0047 U
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0045 U	0.0045 U	0.0047 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.009 U	0.009 U	0.0094 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0045 U	0.0045 U	0.0047 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0045 U	0.0045 U	0.0047 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0045 U	0.0045 U	0.0047 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0045 U	0.0045 U	0.0047 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0045 U	0.0045 U	0.0047 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0045 U	0.0045 U	0.0047 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 U	0.018 U	0.019 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.018 U	0.018 U	0.019 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.018 U	0.018 U	0.019 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.018 U	0.018 U	0.019 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0045 U	0.0045 U	0.0047 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0045 U	0.0045 U	0.0047 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0045 U	0.0045 U	0.0047 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.009 U	0.009 U	0.0094 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0045 U	0.0045 U	0.0047 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0045 U	0.0045 U	0.0047 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0045 U	0.0045 U	0.0047 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.009 U	0.009 U	0.0094 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0045 U	0.0045 U	0.0047 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.009 U	0.009 U	0.0094 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.096	0.0023 U	0.0023 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0045 U	0.0045 U	0.0047 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.009 U	0.009 U	0.0094 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0045 U	0.0045 U	0.0047 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	500000000	1700	270	63000	0.009 U	0.009 U	0.0094 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0045 U	0.0045 U	0.0047 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0045 U	0.0045 U	0.0047 U
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.009 U	0.009 U	0.0094 U
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.009 U	0.009 U	0.0094 U
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.018 U	0.018 U	0.019 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0045 U	0.0045 U	0.0047 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0045 U	0.0045 U	0.0047 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0045 U	0.0045 U	0.0047 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0045 U	0.0045 U	0.0047 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0033	0.0023 U	0.0023 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0045 U	0.0045 U	0.0047 U

APPENDIX B.1
AOI 12
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 12*	*AOI 12*	*AOI 12*
Sample Location:									*BH-12-1-00*	*BH-12-2-00*	*BH-12-2-00*
Sample ID:									*S-12636-053000-DRD-025*	*S-12636-053000-DRD-023*	*S-12636-053000-DRD-024*
Sample Date:									*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(1.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Excavated		*Duplicate*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.11[e]	0.0045 U	0.0047 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	70000000(	560	150	110000	0.009 U	0.009 U	0.0094 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	300000000(	550	550	210000	0.0045 U	0.0045 U	0.0047 U
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.009 U	0.009 U	0.0094 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.009 U	0.009 U	0.0094 U
Semi-volatile Organic Compounds											
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.38 U	0.38 U	0.38 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.38 U	0.38 U	0.38 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.38 U	0.38 U	0.38 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.38 U	0.38 U	0.38 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.38 U	0.38 U	0.38 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.38 U	0.38 U	0.38 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.38 U	0.38 U	0.38 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.38 U	0.38 U	0.38 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.38 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.38 U	0.38 U	0.38 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.8 U	1.8 U	1.8 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.8 U	1.8 U	1.8 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.38 U	0.38 U	0.38 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.38 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.38 U	0.38 U	0.38 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.38 U	0.38 U	0.38 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.38 U	0.38 U	0.38 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.38 U	0.38 U	0.38 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.058 U	0.057 U	0.057 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.38 U	0.38 U	0.38 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.38 U	0.38 U	0.38 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.38 U	0.38 U	0.38 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U

APPENDIX B.1
AOI 12
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 12***	***AOI 12***	***AOI 12***
Sample Location:									***BH-12-1-00***	***BH-12-2-00***	***BH-12-2-00***
Sample ID:									***S-12636-053000-DRD-025***	***S-12636-053000-DRD-023***	***S-12636-053000-DRD-024***
Sample Date:									***5/30/2000***	***5/30/2000***	***5/30/2000***
Sample Depth:									***(1.5-2.5) ft***	***(0.5-2.5) ft***	***(0.5-2.5) ft***
									Excavated		***Duplicate***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.38 U	0.38 U	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.38 U	0.38 U	0.38 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.38 U	0.38 U	0.38 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.38 U	0.38 U	0.38 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.38 U	0.38 U	0.38 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.38 U	0.38 U	0.38 U
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.38 U	0.38 U	0.38 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.38 U	0.38 U	0.38 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.38 U	0.38 U	0.38 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.38 U	0.38 U	0.38 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.38 U	0.38 U	0.38 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.062 J	0.38 U	0.38 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.38 U	0.38 U	0.38 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.38 U	0.38 U	0.38 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.38 U	0.38 U	0.38 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.38 U	0.38 U	0.38 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.12 U	0.11 U	0.11 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.38 U	0.38 U	0.38 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.38 U	0.38 U	0.38 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.38 U	0.38 U	0.38 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.38 U	0.38 U	0.38 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.38 U	0.38 U	0.38 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.38 U	0.38 U	0.38 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.38 U	0.38 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.38 U	0.38 U	0.38 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.38 U	0.38 U
Metals											
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U
Polychlorinated Biphenyls											
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U

APPENDIX B.1
AOI 12
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 12*	*AOI 12*	*AOI 12*
Sample Location:									*BH-12-1-00*	*BH-12-2-00*	*BH-12-2-00*
Sample ID:									*S-12636-053000-DRD-025*	*S-12636-053000-DRD-023*	*S-12636-053000-DRD-024*
Sample Date:									*5/30/2000*	*5/30/2000*	*5/30/2000*
Sample Depth:									*(1.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*
									Excavated		*Duplicate*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
General Chemistry											
pH (solid)	s.u.	-	-	-	-	-	-	-	9.7	9.0	9.2
Total solids	%	-	-	-	-	-	-	-	86.8	87.3	87.4

APPENDIX B.1
AOI 13
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 13*	*AOI 13*	*AOI 13*
Sample Location:									*BH-13-1-00*	*BH-13-2-00*	*GP-6*
Sample ID:									*S-12636-053000-DRD-021*	*S-12636-053000-DRD-022*	*GP-6*
Sample Date:									*5/30/2000*	*5/30/2000*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0.42-2.42) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Volatile Organic Compounds											
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0044 U	0.085	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0044 U	0.0045 U	0.01 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0044 U	0.0023 J	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0044 U	0.026	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0044 U	0.0074	0.01 U
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0044 U	0.0045 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.0089 U	0.0091 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0044 U	0.0045 U	0.01 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0044 U	0.0045 U	0.01 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0044 U	0.0045 U	0.01 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0044 U	0.0045 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0044 U	0.0045 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0044 U	0.0045 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 U	0.018 U	0.1 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.018 U	0.018 U	0.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.018 U	0.018 U	0.1 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.018 U	0.018 U	0.1 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0044 U	0.0045 U	0.01 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0044 U	0.0045 U	0.01 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0044 U	0.0045 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.0089 U	0.0091 U	0.01 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0044 U	0.0045 U	0.1 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0044 U	0.0045 U	0.01 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0044 U	0.0045 U	0.01 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0089 U	0.0091 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0044 U	0.0045 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.0089 U	0.0091 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0022 U	0.0007 J	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0044 U	0.0045 U	0.01 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0089 U	0.0091 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0044 U	0.0045 U	0.01 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	0.0089 U	0.0091 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0044 U	0.0045 U	0.01 U
Ethylene oxide	mg/kg	-	-	-	-	-	-	-	-	-	1 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0044 U	0.0045 U	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.0089 U	0.0091 U	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0089 U	0.0091 U	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.018 U	0.018 U	0.1 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0044 U	0.0045 U	0.037
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0044 U	0.0045 U	0.01 U

APPENDIX B.1
AOI 13
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 13*	*AOI 13*	*AOI 13*
Sample Location:									*BH-13-1-00*	*BH-13-2-00*	*GP-6*
Sample ID:									*S-12636-053000-DRD-021*	*S-12636-053000-DRD-022*	*GP-6*
Sample Date:									*5/30/2000*	*5/30/2000*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0.42-2.42) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0044 U	0.0045 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0044 U	0.0045 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0022 U	0.0023 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0044 U	0.0045 U	0.01 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0044 U	0.0045 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	1700000000	560	150	110000	0.0089 U	0.0091 U	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	2300000000	550	550	210000	0.0044 U	0.0045 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.0089 U	0.0091 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0089 U	0.0091 U	0.03 U
Semi-volatile Organic Compounds											
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	-	-	0.33 U
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.38 U	0.38 U	-
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.38 U	0.38 U	0.33 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.38 U	0.38 U	0.33 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.38 U	0.38 U	0.33 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.7 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.38 U	0.38 U	0.33 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.38 U	0.38 U	0.33 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.38 U	0.38 U	0.33 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.38 U	0.38 U	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.7 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.38 U	0.38 U	0.33 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.8 U	1.8 U	2 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.7 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.8 U	1.8 U	1.7 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.38 U	0.38 U	0.33 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	1.3 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.7 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.7 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.38 U	0.38 U	0.33 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.38 U	0.38 U	0.33 U
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	-	-	0.1 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.38 U	0.38 U	-
Aniline	mg/kg	-	-	1500	29000	-	4.4	-	-	-	1.7 U

APPENDIX B.1
AOI 13
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 13*	*AOI 13*	*AOI 13*
Sample Location:									*BH-13-1-00*	*BH-13-2-00*	*GP-6*
Sample ID:									*S-12636-053000-DRD-021*	*S-12636-053000-DRD-022*	*GP-6*
Sample Date:									*5/30/2000*	*5/30/2000*	*8/30/1996*
Sample Depth:									*(0-2) ft*	*(0.42-2.42) ft*	*(0-4) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.38 U	0.38 U	0.33 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.057 U	0.057 U	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	-
Benzidine	mg/kg	-	-	1	59	-	1	-	-	-	5 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.33 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.38 U	0.38 U	0.33 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.33 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.38 U	0.38 U	0.33 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.38 U	0.38 U	0.33 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.38 U	0.38 U	0.33 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.051 J	0.38 U	0.33 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.38 U	0.38 U	0.33 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.38 U	0.38 U	-
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.38 U	0.38 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.38 U	0.38 U	0.33 U
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.38 U	0.38 U	0.33 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.33 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.38 U	0.38 U	0.33 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.38 U	0.38 U	0.33 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.38 U	0.38 U	0.33 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.38 U	0.38 U	0.33 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.38 U	0.38 U	0.33 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.38 U	0.38 U	0.33 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.38 U	0.38 U	0.33 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.38 U	0.38 U	0.33 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.38 U	0.38 U	0.33 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.11 U	0.33 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.33 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.38 U	0.38 U	0.33 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.38 U	0.38 U	0.33 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.38 U	0.38 U	0.33 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.38 U	0.38 U	0.33 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.38 U	0.38 U	0.33 U
Octachlorocyclopentene	mg/kg	-	-	-	-	-	-	-	-	-	0.33 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.38 U	0.38 U	3.4 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.38 U	0.33 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.38 U	0.38 U	0.33 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.38 U	0.33 U

APPENDIX B.1
AOI 13
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 13***	***AOI 13***	***AOI 13***
Sample Location:									***BH-13-1-00***	***BH-13-2-00***	***GP-6***
Sample ID:									***S-12636-053000-DRD-021***	***S-12636-053000-DRD-022***	***GP-6***
Sample Date:									***5/30/2000***	***5/30/2000***	***8/30/1996***
Sample Depth:									***(0-2) ft***	***(0.42-2.42) ft***	***(0-4) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***			
Polychlorinated Biphenyls											
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	-
General Chemistry											
Total solids	%	-	-	-	-	-	-	-	87.8	87.1	-

APPENDIX B.1
AOI 14
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*	*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*	*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*	*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*	*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
										Duplicate					
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*							
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	-	-	-	U	U	0.01 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	-	-	-	-	-	0.01 U	0.01 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	-	-	-	-	-	0.01 U	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	-	-	-	U	U	0.01 U	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	-	-	-	U	U	0.01 U	0.01 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	-	-	-	-	-	0.01 U	0.01 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	-	-	-	0.01 U	0.01 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	-	-	-	-	-	0.01 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	-	-	-	0.01 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	-	-	-	0.01 U	0.01 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	0.1 U	0.1 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	-	-	-	0.01 U	0.01 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	-	-	-	-	-	0.01 U	0.01 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	-	-	-	-	-	0.01 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	-	-	-	-	-	0.01 U	0.01 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	-	-	-	-	-	0.01 U	0.01 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	-	-	-	-	-	0.01 U	0.01 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	-	-	-	-	-	0.01 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	-	-	-	U	U	0.01 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	-	-	-	-	-	0.01 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	-	-	-	0.01 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	-	-	-	-	-	0.01 U	0.01 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	-	-	-	-	-	0.01 U	0.01 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	-	-	-	0.0013	U	0.01 U	0.01 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	0.03 U	0.03 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	-	-	-	0.0143	U	0.01 U	0.01 U
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-	0.03 U	0.03 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	-	-	-	U	U	0.01 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	-	-	-	0.0046	U	0.01 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	-	-	-	U	U	0.01 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	-	-	-	U	U	0.01 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	17000000000	560	150	110000	-	-	-	-	-	0.01 U	0.01 U
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	-	-	-	-	-	0.01 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	0.0081	U	-	-
Semi-volatile Organic Compounds															
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.38 U	0.38 U	0.37 U	-	-	-	-

APPENDIX B.1
AOI 14
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*	*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*	*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*	*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*	*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
										Duplicate					
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*							
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	1.8 U	1.8 U	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.37 U	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.8 U	1.8 U	-	-	-	-
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.38 U	0.38 U	0.37 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.9 U	1.8 U	1.8 U	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.8 U	1.8 U	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.9 U	1.8 U	1.8 U	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.38 U	0.38 U	0.37 U	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.37 U	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.8 U	1.8 U	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	1.8 U	1.8 U	-	-	-	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.38 U	0.38 U	0.37 U	-	-	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.058 U	0.058 U	0.056 U	-	-	-	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.38 U	0.38 U	0.37 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	-	-

APPENDIX B.1
AOI 14
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*	*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*	*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*	*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*	*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
										Duplicate					
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***							
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.38 U	0.38 U	0.066 J	-	-	0.33 U	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.38 U	0.38 U	0.37 U	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.38 U	0.38 U	0.37 U	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.38 U	0.38 U	0.37 U	-	-	-	-
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.12 U	0.12 U	0.11 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.38 U	0.38 U	0.37 U	-	-	0.33 U	-
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.38 U	0.38 U	0.37 U	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.38 U	0.38 U	0.37 U	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.38 U	0.056 J	-	-	0.33 U	-
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.38 U	0.38 U	0.37 U	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.38 U	0.057 J	-	-	0.33 U	-
Metals															
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	9840	8590	8860	-	-	-	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.23 U	0.23 U	0.22 U	-	-	-	-
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	8.3	13	8	-	-	18[e]	9
Barium	mg/kg	75	118	130000	150000	-	1300	-	69.4	55.5	63.9	-	-	54	57
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.52	0.66	0.41	-	-	-	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.14	0.43	0.17	-	-	0.57	0.59
Calcium	mg/kg	-	88000	-	-	-	-	-	64500	53700	40500	-	-	-	-
Chromium	mg/kg	18	19	9200	240	-	30	-	15.4	15.4	12	-	-	15	16
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	-	-	-	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	9	8.5	7.3	-	-	-	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	15	17.7	12.9	-	-	13	13
Iron	mg/kg	12000	27900	580000	-	-	6	-	22000	18900	19800	-	-	-	-
Lead	mg/kg	21	21	900	44000	-	700	-	9	10.4	9.7	-	-	14	16
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	25500	22600	16300	-	-	-	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	446	413	373	-	-	-	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.011 J	0.012 J	0.012 J	-	-	0.1 U	0.1 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	21.8	32	17.8	-	-	-	-
Potassium	mg/kg	-	2300	-	-	-	-	-	1890	1580	1420	-	-	-	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.25 J	0.26 J	0.31 J	-	-	0.5 U	0.5 U
Silver	mg/kg	1	1	9000	2900	-	13	-	0.076 J	0.07 J	0.064 J	-	-	0.5 U	0.5 U

APPENDIX B.1
AOI 14
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:									*BH-14-1-00*	*BH-14-1-00*	*BH-14-2-00*	*MW-1*	*MW-2*	*PFW-2*	*PFW-9*
Sample ID:									*S-12636-053100-DRD-027*	*S-12636-053100-DRD-028*	*S-12636-053100-DRD-026*	*MW-1 (2-4)*	*MW-2 (8-10)*	*PFW-2 0-1.5*	*PFW-9 0-2*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/6/1996*	*11/6/1996*	*3/14/1997*	*3/19/1997*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(2-4) ft*	*(8-10) ft*	*(0-1.5) ft*	*(0-2) ft*
										Duplicate					
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***							
Sodium	mg/kg	-	580	1000000	-	-	7000	-	154 J	578 U	560 U	-	-	-	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.17	0.33	0.15	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	28.5	23.3	26.3	-	-	-	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	47.1	88.9	47.2	-	-	42	80
Polychlorinated Biphenyls															
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.037 U	-	-	-	-
Pesticides															
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-	0.33 U	-
Petroleum Products															
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	336	-	-	-
General Chemistry															
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.58 U	0.578 U	0.56 U	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	86.2	86.6	89.3	-	-	89.88	86.04

APPENDIX B.1
AOI 15
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:									*MW-4*	*MW-10*	*MW-10*	*PFW-5*	*SB-9*
Sample ID:									*MW-4 (6-8)*	*MW-10 (4-6)*	*MW-10 (4-6)*	*PFW-5 0-1.7*	*SB-9 (3-5)*
Sample Date:									*11/6/1996*	*11/5/1996*	*11/5/1996*	*3/18/1997*	*11/6/1996*
Sample Depth:									*(6-8) ft*	*(4-6) ft*	*(4-6) ft (other)*	*(0-1.7) ft*	*(3-5) ft*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	U	U	0.01 U	0.01 U	U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	-	-	0.01 U	0.01 U	-
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	-	-	0.01 U	0.01 U	-
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	U	U	0.01 U	0.01 U	U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	U	U	0.01 U	0.01 U	U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	-	-	0.01 U	0.01 U	-
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	-	-	0.01 U	0.01 U	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	-	-	0.01 U	0.01 U	-
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	-	-	0.01 U	0.01 U	-
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	-	-	0.01 U	0.01 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	-	-	0.1 U	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	0.1 U	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	-	-	0.1 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	-	-	0.1 U	-	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	-	-	0.1 U	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	-	-	0.01 U	0.01 U	-
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	-	-	0.01 U	0.01 U	-
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	-	-	0.01 U	0.01 U	-
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	-	-	0.01 U	0.01 U	-
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	-	-	0.1 U	-	-
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	-	-	0.01 U	0.01 U	-
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	-	-	0.01 U	0.01 U	-
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	-	-	0.01 U	0.01 U	-
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	U	U	0.01 U	0.01 U	U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	-	-	0.01 U	0.01 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	-	0.01 U	0.01 U	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	-	-	0.01 U	0.01 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000(	1700	270	63000	-	-	-	0.01 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	U	U	0.01 U	0.01 U	U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	0.03 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	U	U	0.01 U	0.01 U	0.0831
o-Xylene	mg/kg	-	-	150	1300000000	150	5.6	54000	-	-	-	0.03 U	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	-	-	0.01 U	-	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0016	0.001	0.01 U	0.01 U	U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	U	U	0.01 U	0.01 U	0.0029
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	U	U	0.01 U	0.01 U	U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	-	-	0.01 U	0.01 U	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	U	0.0011	0.01 U	0.01 U	U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	1700000000(	560	150	110000	-	-	-	0.01 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	-	-	0.01 U	0.01 U	-

APPENDIX B.1
AOI 15
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:									*MW-4*	*MW-10*	*MW-10*	*PFW-5*	*SB-9*
Sample ID:									*MW-4 (6-8)*	*MW-10 (4-6)*	*MW-10 (4-6)*	*PFW-5 0-1.7*	*SB-9 (3-5)*
Sample Date:									*11/6/1996*	*11/5/1996*	*11/5/1996*	*3/18/1997*	*11/6/1996*
Sample Depth:									*(6-8) ft*	*(4-6) ft*	*(4-6) ft (other)*	*(0-1.7) ft*	*(3-5) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	U	U	0.03 U	-	U
Semi-volatile Organic Compounds													
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	0.011
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	-	-	-	-	U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	-	-	-	-	0.014
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	-	-	-	-	U
Metals													
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	-	4.52	16[g]	5	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	-	42.7	34	22	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	-	U	0.11	0.49	-
Chromium	mg/kg	18	19	9200	240	-	30	-	-	12.9	7.2	9.1	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	-	U	18	8.1	-
Lead	mg/kg	21	21	900	44000	-	700	-	-	6.64	12	11	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	-	U	0.1 U	0.1 U	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	-	U	0.56	0.5 U	-
Silver	mg/kg	1	1	9000	2900	-	13	-	-	U	0.5 U	0.5 U	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	-	U	30	30	-
Petroleum Products													
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	U	56	-	-
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	-	-	87.6	88.91	-

APPENDIX B.1
AOI 17
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*
Sample Location:									*BH-17-1-00*	*BH-17-1-00*	*BH-17-2-00*	*BH-17-2A-00*	*SB-2*
Sample ID:									*S-12636-053100-DRD-029*	*S-12636-053100-DRD-030*	*S-12636-053100-DRD-035*	*S-12636-053100-DRD-031*	*SB-2 (0-2)*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/7/1996*
Sample Depth:									*(2-3) ft*	*(8-9) ft*	*(0.5-2.5) ft*	*(1-3) ft*	*(0-2) ft*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Semi-volatile Organic Compounds													
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	1.8 U	1.8 U	-
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.36 U	0.38 U	0.36 U	0.38 U	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	1.8 U	1.8 U	-
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.36 U	0.38 U	0.36 U	0.38 U	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.7 U	1.8 U	1.8 U	1.8 U	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	1.8 U	1.8 U	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.7 U	1.8 U	1.8 U	1.8 U	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.36 U	0.38 U	0.36 U	0.38 U	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.36 U	0.38 U	0.36 U	0.38 U	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	1.8 U	1.8 U	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.8 U	1.8 U	1.8 U	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.36 U	0.38 U	0.36 U	0.38 U	-
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.36 U	0.38 U	0.36 U	0.38 U	-
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.36 U	0.38 U	0.36 U	0.38 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.36 U	0.38 U	0.36 U	0.38 U	-
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.054 U	0.057 U	0.055 U	0.058 U	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.36 U	0.38 U	0.061 J	0.073 J	-
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.36 U	0.38 U	0.052 J	0.07 J	-
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.36 U	0.38 U	0.075 J	0.11 J	-
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.36 U	0.38 U	0.36 U	0.38 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.36 U	0.38 U	0.059 J	0.076 J	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-

APPENDIX B.1
AOI 17
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*	*AOI 17*
Sample Location:									*BH-17-1-00*	*BH-17-1-00*	*BH-17-2-00*	*BH-17-2A-00*	*SB-2*
Sample ID:									*S-12636-053100-DRD-029*	*S-12636-053100-DRD-030*	*S-12636-053100-DRD-035*	*S-12636-053100-DRD-031*	*SB-2 (0-2)*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*5/31/2000*	*11/7/1996*
Sample Depth:									*(2-3) ft*	*(8-9) ft*	*(0.5-2.5) ft*	*(1-3) ft*	*(0-2) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.36 U	0.38 U	0.12 J	0.12 J	-
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.36 U	0.38 U	0.36 U	0.38 U	-
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.36 U	0.38 U	0.36 U	0.38 U	-
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.36 U	0.38 U	0.36 U	0.38 U	-
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.36 U	0.38 U	0.36 U	0.38 U	-
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.11 U	0.11 U	0.12 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.36 U	0.38 U	0.36 U	0.38 U	-
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.36 U	0.38 U	0.36 U	0.38 U	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.36 U	0.38 U	0.36 U	0.38 U	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.36 U	0.38 U	0.069 J	0.38 U	-
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.36 U	0.38 U	0.36 U	0.38 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.36 U	0.38 U	0.1 J	0.11 J	-
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.036 U	0.038 U	-
Pesticides													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	0.33 U
General Chemistry													
Total solids	%	-	-	-	-	-	-	-	91.8	87.8	90.9	86.7	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft*	*(20-21) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0049 U	0.0012 J	0.0052 U	0.0044 U
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.0098 U	0.0097 U	0.01 U	0.0087 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0049 U	0.0048 U	0.0052 U	0.0044 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0049 U	0.0048 U	0.00048 J	0.0044 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.02 U	0.019 U	0.0046 J	0.017 U
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.02 U	0.019 U	0.021 U	0.017 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.02 U	0.019 U	0.021 U	0.017 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.02 U	0.019 U	0.023 U	0.017 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.0098 U	0.0097 U	0.01 U	0.0087 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0098 U	0.0097 U	0.01 U	0.0087 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.0098 U	0.0097 U	0.01 U	0.0087 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0025 U	0.0024 U	0.0026 U	0.0022 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0098 U	0.0097 U	0.01 U	0.0087 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	500000000	1700	270	63000	0.0098 U	0.0097 U	0.01 U	0.0087 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Ethylene oxide	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0049 U	0.0048 U	0.0052 U	0.0044 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.0098 U	0.0097 U	0.01 U	0.0087 U
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.0098 U	0.0097 U	0.01 U	0.0087 U
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.02 U	0.019 U	0.021 U	0.017 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0049 U	0.0048 U	0.0052 U	0.0044 U
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
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GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft*	*(20-21) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0049 U	0.0048 U	0.0052 U	0.0044 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0025 U	0.0024 U	0.0026 U	0.0022 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	70000000(	560	150	110000	0.0098 U	0.0097 U	0.01 U	0.0087 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	300000000(	550	550	210000	0.0049 U	0.0048 U	0.0052 U	0.0044 U
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.0098 U	0.0097 U	0.01 U	0.0087 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0098 U	0.0097 U	0.01 U	0.0087 U
Semi-volatile Organic Compounds												
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.4 U	0.39 U	0.39 U	0.38 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.4 U	0.39 U	0.39 U	0.38 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.4 U	0.39 U	0.39 U	0.38 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.4 U	0.39 U	0.39 U	0.38 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.4 U	0.39 U	0.39 U	0.38 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.4 U	0.39 U	0.39 U	0.38 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.4 U	0.39 U	0.39 U	0.38 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.4 U	0.39 U	0.39 U	0.38 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.4 U	0.39 U	0.39 U	0.38 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.9 U	1.9 U	1.8 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.4 U	0.39 U	0.39 U	0.38 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.9 U	1.9 U	1.9 U	1.8 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.9 U	1.9 U	1.8 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.9 U	1.9 U	1.9 U	1.8 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.4 U	0.39 U	0.39 U	0.38 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.4 U	0.39 U	0.39 U	0.38 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.9 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.9 U	1.9 U	1.9 U	1.8 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.4 U	0.39 U	0.39 U	0.38 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.4 U	0.39 U	0.39 U	0.38 U
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	-	-	-	-
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.4 U	0.39 U	0.39 U	0.38 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.4 U	0.39 U	0.39 U	0.38 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.06 U	0.06 U	0.059 U	0.057 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U

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GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft*	*(20-21) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.4 U	0.39 U	0.39 U	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.4 U	0.39 U	0.39 U	0.38 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.4 U	0.39 U	0.39 U	0.38 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.4 U	0.39 U	0.39 U	0.38 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.4 U	0.39 U	0.39 U	0.38 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.4 U	0.39 U	0.39 U	0.38 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.4 U	0.39 U	0.39 U	0.38 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.4 U	0.39 U	0.39 U	0.38 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.4 U	0.39 U	0.39 U	0.38 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.4 U	0.39 U	0.39 U	0.38 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.4 U	0.39 U	0.39 U	0.38 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.4 U	0.39 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.4 U	0.39 U	0.39 U	0.38 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.12 U	0.12 U	0.12 U	0.11 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.4 U	0.39 U	0.39 U	0.38 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.4 U	0.39 U	0.39 U	0.38 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.4 U	0.39 U	0.39 U	0.38 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.4 U	0.39 U	0.39 U	0.38 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.4 U	0.39 U	0.39 U	0.38 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.4 U	0.39 U	0.39 U	0.38 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.4 U	0.39 U	0.39 U	0.38 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.4 U	0.39 U	0.39 U	0.38 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.4 U	0.39 U	0.39 U	0.38 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.4 U	0.39 U	0.39 U	0.38 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	14900	15900[e]	15700[e]	12000
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.24 U	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	9.8	11.1	13.1	7.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	81.3	95.7	96.3	80
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.73	0.9	0.87	0.75
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.16	0.12 J	0.1 J	0.15 J

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GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:									*BH-18-1-00*	*BH-18-2-00*	*BH-18-2-00*	*BH-18-2-00*
Sample ID:									*S-12636-053100-DRD-037*	*S-12636-060100-DRD-040*	*S-12636-060100-DRD-041*	*S-12636-060100-DRD-042*
Sample Date:									*5/31/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(2-3) ft*	*(0.66-3) ft*	*(0.66-3) ft*	*(20-21) ft*
											Duplicate	
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Calcium	mg/kg	-	88000	-	-	-	-	-	55700	3590	5040	56700
Chromium	mg/kg	18	19	9200	240	-	30	-	23.2	24	23.2	19.3
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.72	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	10.7	12.3[e]	11.9[e]	10.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	16.2	20.6	22.6	16
Iron	mg/kg	12000	27900	580000	-	-	6	-	28000[e]	32200[e]	33600[e]	24100
Lead	mg/kg	21	21	900	44000	-	700	-	8.8	12.1	13.6	9
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	20300	4430 J	4510 J	24500 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	487	579[e]	574[e]	411
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.02 J	0.033 J	0.043	0.015 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	27.8	27.8	25.6	26.9
Potassium	mg/kg	-	2300	-	-	-	-	-	2080	1730	1700	2510
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.12 J	0.41 J	0.64 J	0.31 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.13	0.1 J	0.087 J	0.092 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	493 J	597 U	366 J	573 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.19	0.25 J	0.25 J	0.23 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	38.6	42.8 J	41.4 J	32.4 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	49.5	82.1	66.2	49.3
Polychlorinated Biphenyls												
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.04 U	0.039 U	0.039 U	0.038 U
Pesticides												
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-
Petroleum Products												
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.599 U	0.597 U	0.594 U	0.573 U
Total solids	%	-	-	-	-	-	-	-	83.4	83.8	84.2	87.3

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*	*MW-3*	*PFW-4*	*SB-6*	*SB-7*
Sample ID:		*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*	*MW-3 (2-4)*	*PFW-4 1.5-3*	*SB-6 (1-3)*	*SB-7 (1-3)*
Sample Date:		*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*	*3/17/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*	*(2-4) ft*	*(1.5-3) ft*	*(1-3) ft*	*(1-3) ft*
Parameters:	***Units***									
Volatile Organic Compounds										
1,1,1-Trichloroethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,1,2,2-Tetrachloroethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,1,2-Trichloroethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,1-Dichloroethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,1-Dichloroethene	mg/kg	0.0048 U	0.001 J	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,2,4-Trichlorobenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,2-Dichloroethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,2-Dichloropropane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,3-Dichlorobenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
1,4-Dichlorobenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U	-	-	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	0.1 U	-	-
2-Hexanone	mg/kg	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U	-	-	-	-
Acetone	mg/kg	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U	-	-	-	-
Benzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Bromodichloromethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Bromoform	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Bromomethane (Methyl bromide)	mg/kg	0.0097 U	0.0091 U	0.0097 U	0.01 U	0.01 U	-	0.01 U	-	-
Carbon disulfide	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.1 U	0.1 U	-	-	-	-
Carbon tetrachloride	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Chlorobenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Chloroethane	mg/kg	0.0097 U	0.0091 U	0.0097 U	0.01 U	0.01 U	-	0.01 U	-	-
Chloroform (Trichloromethane)	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Chloromethane (Methyl chloride)	mg/kg	0.0097 U	0.0091 U	0.0097 U	0.01 U	0.01 U	-	0.01 U	-	-
cis-1,2-Dichloroethene	mg/kg	0.0024 U	0.0023 U	0.0024 U	0.01 U	0.01 U	-	0.01 U	-	-
cis-1,3-Dichloropropene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Cyclohexane	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	-	-	-
Dibromochloromethane	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	0.01 U	-	-
Ethylbenzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Ethylene oxide	mg/kg	-	-	-	1 U	1 U	-	-	-	-
Isopropyl benzene	mg/kg	0.0048 U	0.0046 U	0.0048 U	-	-	-	-	-	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	0.03 U	-	-
Methyl acetate	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	0.019 U	0.018 U	0.019 U	0.1 U	0.1 U	-	-	-	-
Methylene chloride	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.014	0.017	-	0.01 U	-	-
o-Xylene	mg/kg	-	-	-	-	-	-	0.03 U	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*	*MW-3*	*PFW-4*	*SB-6*	*SB-7*
Sample ID:		*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*	*MW-3 (2-4)*	*PFW-4 1.5-3*	*SB-6 (1-3)*	*SB-7 (1-3)*
Sample Date:		*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*	*3/17/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*	*(2-4) ft*	*(1.5-3) ft*	*(1-3) ft*	*(1-3) ft*
Parameters:	***Units***									
Styrene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	-	-	-
Tetrachloroethene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Toluene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
trans-1,2-Dichloroethene	mg/kg	0.0024 U	0.0023 U	0.0024 U	0.01 U	0.01 U	-	0.01 U	-	-
trans-1,3-Dichloropropene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Trichloroethene	mg/kg	0.0048 U	0.0046 U	0.0048 U	0.01 U	0.01 U	-	0.01 U	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	0.0097 U	0.0091 U	0.0097 U	-	-	-	0.01 U	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0048 U	0.0046 U	0.0048 U	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.0097 U	0.0091 U	0.0097 U	0.01 U	0.01 U	-	0.01 U	-	-
Xylene (total)	mg/kg	0.0097 U	0.0091 U	0.0097 U	0.03 U	0.03 U	-	-	-	-
Semi-volatile Organic Compounds										
2,2'-Oxybis(2-chloropropane)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2-Chlorophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2-Methylphenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
2-Nitroaniline	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
2-Nitrophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
3-Nitroaniline	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
4-Chloroaniline	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
4-Methylphenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
4-Nitroaniline	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
4-Nitrophenol	mg/kg	1.9 U	1.8 U	1.8 U	-	-	-	-	-	-
Acenaphthene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Acenaphthylene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Acetonitrile	mg/kg	-	-	-	0.1 U	0.1 U	-	-	-	-
Acetophenone	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Anthracene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Atrazine	mg/kg	0.06 U	0.056 U	0.058 U	-	-	-	-	-	-
Benzaldehyde	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*	*MW-3*	*PFW-4*	*SB-6*	*SB-7*
Sample ID:		*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*	*MW-3 (2-4)*	*PFW-4 1.5-3*	*SB-6 (1-3)*	*SB-7 (1-3)*
Sample Date:		*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*	*3/17/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*	*(2-4) ft*	*(1.5-3) ft*	*(1-3) ft*	*(1-3) ft*
Parameters:	***Units***									
Benzo(a)anthracene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	U	0.33 U	-	-
Benzo(a)pyrene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	U	0.33 U	-	-
Benzo(b)fluoranthene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	U	0.33 U	-	-
Benzo(g,h,i)perylene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Benzo(k)fluoranthene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	U	0.33 U	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Caprolactam	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Carbazole	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Chrysene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Dibenz(a,h)anthracene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Dibenzofuran	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Diethyl phthalate	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Fluoranthene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Fluorene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Hexachlorobenzene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Hexachloroethane	mg/kg	0.12 U	0.11 U	0.12 U	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Isophorone	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Naphthalene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Nitrobenzene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Pentachlorophenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Phenanthrene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Phenol	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	-	-	-
Pyrene	mg/kg	0.4 U	0.37 U	0.38 U	-	-	-	0.33 U	-	-
Metals										
Aluminum	mg/kg	13400	9120	6820	-	-	-	-	-	-
Antimony	mg/kg	0.24 U	1.1 UJ	1.2 UJ	-	-	-	-	-	-
Arsenic	mg/kg	10.5	9.9	9.7	8.5	7	-	8	-	-
Barium	mg/kg	108	64.5	190	10	73	-	51	-	-
Beryllium	mg/kg	0.74	0.48 J	0.43 J	-	-	-	-	-	-
Cadmium	mg/kg	0.16	0.13 J	0.12 J	0.082	0.088	-	0.67	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*BH-18-3-00*	*BH-18-4-00*	*BH-18-4-00*	*GP-3*	*GP-4*	*MW-3*	*PFW-4*	*SB-6*	*SB-7*
Sample ID:		*S-12636-053100-DRD-036*	*S-12636-060100-DRD-038*	*S-12636-060100-DRD-039*	*GP-3*	*GP-4*	*MW-3 (2-4)*	*PFW-4 1.5-3*	*SB-6 (1-3)*	*SB-7 (1-3)*
Sample Date:		*5/31/2000*	*6/1/2000*	*6/1/2000*	*8/30/1996*	*8/30/1996*	*11/6/1996*	*3/17/1997*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(0.5-1.5) ft*	*(0.5-3) ft*	*(5-6) ft*	*(1-4) ft*	*(0-4) ft*	*(2-4) ft*	*(1.5-3) ft*	*(1-3) ft*	*(1-3) ft*
Parameters:	***Units***									
Calcium	mg/kg	59700	69600	60000	-	-	-	-	-	-
Chromium	mg/kg	19.9	15.6	12.7	4.5	13	-	17	-	-
Chromium VI (hexavalent)	mg/kg	0.7 U	0.7 U	0.7 U	-	-	-	-	-	-
Cobalt	mg/kg	12.3[e]	8.4	6.3	-	-	-	-	-	-
Copper	mg/kg	17.8	13.2	10.7	7.6	12	-	13	-	-
Iron	mg/kg	25800	18500	16300	-	-	-	-	-	-
Lead	mg/kg	10.7	8.5	6.5	4.1	10	-	17	-	-
Magnesium	mg/kg	22300	29400 J	29800 J	-	-	-	-	-	-
Manganese	mg/kg	454	421	241	-	-	-	-	-	-
Mercury	mg/kg	0.016 J	0.01 J	0.0068 J	0.1 U	0.1 U	-	0.1 U	-	-
Nickel	mg/kg	30.7	20.6	17.1	-	-	-	-	-	-
Potassium	mg/kg	2260	2020	1600	-	-	-	-	-	-
Selenium	mg/kg	0.12 J	0.23 J	0.23 J	0.94	0.8	-	0.5 U	-	-
Silver	mg/kg	0.077 J	0.081 J	0.074 J	0.5 U	0.5 U	-	0.5 U	-	-
Sodium	mg/kg	322 J	564 U	576 U	-	-	-	-	-	-
Thallium	mg/kg	0.21	0.18 J	0.12 J	-	-	-	-	-	-
Vanadium	mg/kg	33.7	25.3 J	19.6 J	-	-	-	-	-	-
Zinc	mg/kg	54.7	48.5	34.9	25	42	-	38	-	-
Polychlorinated Biphenyls										
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	0.04 U	0.037 U	0.038 U	-	-	-	-	-	-
Pesticides										
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	U	-	U	U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	U	-	U	U
Total PCBs	mg/kg	-	-	-	-	-	U	0.33 U	U	U
Petroleum Products										
Diesel fuel	mg/kg	-	-	-	6.6 U	11	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	396	-	384	556
General Chemistry										
Cyanide (total)	mg/kg	0.604 U	0.564 U	0.576 U	-	-	-	-	-	-
Total solids	%	82.8	88.7	86.8	-	-	-	86.13	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 18***	***AOI 18***
Sample Location:		***SB-8***	***SB-17***
Sample ID:		***SB-8 (1-3)***	***SB-17 (1-3)***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***(1-3) ft***	***(1-3) ft***
Parameters:	***Units***		
Volatile Organic Compounds			
1,1,1-Trichloroethane	mg/kg	-	-
1,1,2,2-Tetrachloroethane	mg/kg	-	-
1,1,2-Trichloroethane	mg/kg	-	-
1,1-Dichloroethane	mg/kg	-	-
1,1-Dichloroethene	mg/kg	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-
1,2-Dichlorobenzene	mg/kg	-	-
1,2-Dichloroethane	mg/kg	-	-
1,2-Dichloropropane	mg/kg	-	-
1,3-Dichlorobenzene	mg/kg	-	-
1,4-Dichlorobenzene	mg/kg	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-
2-Chloroethyl vinyl ether	mg/kg	-	-
2-Hexanone	mg/kg	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-
Acetone	mg/kg	-	-
Benzene	mg/kg	-	-
Bromodichloromethane	mg/kg	-	-
Bromoform	mg/kg	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-
Carbon disulfide	mg/kg	-	-
Carbon tetrachloride	mg/kg	-	-
Chlorobenzene	mg/kg	-	-
Chloroethane	mg/kg	-	-
Chloroform (Trichloromethane)	mg/kg	-	-
Chloromethane (Methyl chloride)	mg/kg	-	-
cis-1,2-Dichloroethene	mg/kg	-	-
cis-1,3-Dichloropropene	mg/kg	-	-
Cyclohexane	mg/kg	-	-
Dibromochloromethane	mg/kg	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-
Ethylbenzene	mg/kg	-	-
Ethylene oxide	mg/kg	-	-
Isopropyl benzene	mg/kg	-	-
m&p-Xylene	mg/kg	-	-
Methyl acetate	mg/kg	-	-
Methyl cyclohexane	mg/kg	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-
Methylene chloride	mg/kg	-	-
o-Xylene	mg/kg	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 18***	***AOI 18***
Sample Location:		***SB-8***	***SB-17***
Sample ID:		***SB-8 (1-3)***	***SB-17 (1-3)***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***(1-3) ft***	***(1-3) ft***
Parameters:	***Units***		
Styrene	mg/kg	-	-
Tetrachloroethene	mg/kg	-	-
Toluene	mg/kg	-	-
trans-1,2-Dichloroethene	mg/kg	-	-
trans-1,3-Dichloropropene	mg/kg	-	-
Trichloroethene	mg/kg	-	-
Trichlorofluoromethane (CFC-11)	mg/kg	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-
Vinyl chloride	mg/kg	-	-
Xylene (total)	mg/kg	-	-
Semi-volatile Organic Compounds			
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-
2,4,5-Trichlorophenol	mg/kg	-	-
2,4,6-Trichlorophenol	mg/kg	-	-
2,4-Dichlorophenol	mg/kg	-	-
2,4-Dimethylphenol	mg/kg	-	-
2,4-Dinitrophenol	mg/kg	-	-
2,4-Dinitrotoluene	mg/kg	-	-
2,6-Dinitrotoluene	mg/kg	-	-
2-Chloronaphthalene	mg/kg	-	-
2-Chlorophenol	mg/kg	-	-
2-Methylnaphthalene	mg/kg	-	-
2-Methylphenol	mg/kg	-	-
2-Nitroaniline	mg/kg	-	-
2-Nitrophenol	mg/kg	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-
3-Nitroaniline	mg/kg	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-
4-Chloro-3-methylphenol	mg/kg	-	-
4-Chloroaniline	mg/kg	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-
4-Methylphenol	mg/kg	-	-
4-Nitroaniline	mg/kg	-	-
4-Nitrophenol	mg/kg	-	-
Acenaphthene	mg/kg	-	-
Acenaphthylene	mg/kg	-	-
Acetonitrile	mg/kg	-	-
Acetophenone	mg/kg	-	-
Anthracene	mg/kg	-	-
Atrazine	mg/kg	-	-
Benzaldehyde	mg/kg	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 18***	***AOI 18***
Sample Location:		***SB-8***	***SB-17***
Sample ID:		***SB-8 (1-3)***	***SB-17 (1-3)***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***(1-3) ft***	***(1-3) ft***
Parameters:	***Units***		
Benzo(a)anthracene	mg/kg	-	-
Benzo(a)pyrene	mg/kg	-	-
Benzo(b)fluoranthene	mg/kg	-	-
Benzo(g,h,i)perylene	mg/kg	-	-
Benzo(k)fluoranthene	mg/kg	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-
Caprolactam	mg/kg	-	-
Carbazole	mg/kg	-	-
Chrysene	mg/kg	-	-
Dibenz(a,h)anthracene	mg/kg	-	-
Dibenzofuran	mg/kg	-	-
Diethyl phthalate	mg/kg	-	-
Dimethyl phthalate	mg/kg	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-
Fluoranthene	mg/kg	-	-
Fluorene	mg/kg	-	-
Hexachlorobenzene	mg/kg	-	-
Hexachlorobutadiene	mg/kg	-	-
Hexachlorocyclopentadiene	mg/kg	-	-
Hexachloroethane	mg/kg	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-
Isophorone	mg/kg	-	-
Naphthalene	mg/kg	-	-
Nitrobenzene	mg/kg	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-
N-Nitrosodiphenylamine	mg/kg	-	-
Pentachlorophenol	mg/kg	-	-
Phenanthrene	mg/kg	-	-
Phenol	mg/kg	-	-
Pyrene	mg/kg	-	-
Metals			
Aluminum	mg/kg	-	-
Antimony	mg/kg	-	-
Arsenic	mg/kg	-	-
Barium	mg/kg	-	-
Beryllium	mg/kg	-	-
Cadmium	mg/kg	-	-

APPENDIX B.1
AOI 18
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 18***	***AOI 18***
Sample Location:		***SB-8***	***SB-17***
Sample ID:		***SB-8 (1-3)***	***SB-17 (1-3)***
Sample Date:		***11/6/1996***	***11/6/1996***
Sample Depth:		***(1-3) ft***	***(1-3) ft***
Parameters:	***Units***		
Calcium	mg/kg	-	-
Chromium	mg/kg	-	-
Chromium VI (hexavalent)	mg/kg	-	-
Cobalt	mg/kg	-	-
Copper	mg/kg	-	-
Iron	mg/kg	-	-
Lead	mg/kg	-	-
Magnesium	mg/kg	-	-
Manganese	mg/kg	-	-
Mercury	mg/kg	-	-
Nickel	mg/kg	-	-
Potassium	mg/kg	-	-
Selenium	mg/kg	-	-
Silver	mg/kg	-	-
Sodium	mg/kg	-	-
Thallium	mg/kg	-	-
Vanadium	mg/kg	-	-
Zinc	mg/kg	-	-
Polychlorinated Biphenyls			
Aroclor-1016 (PCB-1016)	mg/kg	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-
Pesticides			
Aroclor-1254 (PCB-1254)	mg/kg	U	U
Aroclor-1260 (PCB-1260)	mg/kg	U	U
Total PCBs	mg/kg	U	U
Petroleum Products			
Diesel fuel	mg/kg	-	-
Petroleum hydrocarbons	mg/kg	U	308
General Chemistry			
Cyanide (total)	mg/kg	-	-
Total solids	%	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	mg/kg	-	-	440	530000	33	6.4	120	-	-	0.0045 U	-
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.21 U	0.22 U	0.0045 U	0.01 J
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.16 J	0.15 J	0.0045 U	0.0024 J
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.21 U	0.22 U	0.0045 U	0.0013 J
1,2,3-Trichloropropane	mg/kg	-	-	830	-	-	2.4	-	-	-	0.0045 U	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.21 U	0.22 U	-	0.0055 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.42 U	0.43 U	0.009 U	0.011 UJ
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.21 U	0.22 U	0.0045 U	0.0055 UJ
1,4-Dioxane	mg/kg	-	-	2400	710000	-	7	-	-	-	0.45 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.84 U	0.87 U	0.0022 J	0.0037 J
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.84 U	0.87 U	0.018 U	0.022 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.14 J	0.14 J	0.0016 J	0.012 J
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	1.8	1.6	0.018 U	0.022 UJ
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	-	-	0.09 U	-
Acrolein	mg/kg	-	-	12000	590	0.76	6.6	0.37	-	-	0.09 U	-
Acrylonitrile	mg/kg	-	-	74	58000	35	0.22	17	-	-	0.09 U	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-	-	-	0.009 U	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.42 U	0.43 U	0.009 U	0.011 UJ
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.42 U	0.43 U	0.009 U	0.011 UJ
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.42 U	0.43 U	0.009 U	0.011 UJ
Chloroprene	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.11 U	0.11 U	-	0.0027 UJ
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.42 U	0.43 U	-	0.011 UJ
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Dibromomethane	mg/kg	-	-	2000	-	-	4.6	-	-	-	0.0045 U	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	0.42 U	0.43 U	0.009 U	0.011 UJ

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.21 U	0.22 U	0.0045 U	0.0007 J
Iodomethane	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	8900	44000000	8900	130	95000	-	-	0.18 U	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.21 U	0.22 U	-	0.0055 UJ
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.42 U	0.43 U	-	0.011 UJ
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.42 U	0.43 U	-	0.011 UJ
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.84 U	0.87 U	-	0.022 UJ
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-	-	-	0.018 U	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.022 J	0.22 U	0.0045 U	0.0012 J
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.11 U	0.11 U	-	0.0027 UJ
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.21 U	0.22 U	0.0045 U	0.0055 UJ
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-	-	-	0.0045 U	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.21 U	0.22 U	0.0045 U	0.0055 UJ
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	1700000000	560	150	110000	0.42 U	0.43 U	0.009 U	0.011 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	2300000000	550	550	210000	0.21 U	0.22 U	-	0.0055 UJ
Vinyl acetate	mg/kg	-	-	2400	5900000	1500	36	2000	-	-	0.009 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.42 U	0.43 U	0.009 U	0.011 UJ
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.42 U	0.43 U	0.009 U	0.0024 J
Semi-volatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	250000	-	-	1500	-	-	-	0.38 U	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	-	-	0.38 U	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	3.7 U	0.36 U	0.38 U	1.9 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	3.7 U	0.36 U	0.38 U	1.9 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	3.7 U	0.36 U	0.38 U	1.9 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	3.7 U	0.36 U	0.38 U	1.9 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	18 U	1.8 U	1.8 U	9.1 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	3.7 U	0.36 U	0.38 U	1.9 U
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-	-	-	3.8 U	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	18 U	1.8 U	1.8 U	9.1 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	3.7 U	0.36 U	0.38 U	1.9 U
2-Picoline	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	18 U	1.8 U	1.8 U	9.1 U
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
3-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	-	-	0.38 U	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	18 U	1.8 U	1.8 U	9.1 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	18 U	1.8 U	1.8 U	9.1 U
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	3.7 U	0.36 U	0.38 U	1.9 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	3.7 U	0.36 U	0.38 U	1.9 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	18 U	1.8 U	1.8 U	9.1 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	18 U	1.8 U	1.8 U	9.1 U
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-	-	-	3.8 U	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	3.7 U	0.36 U	0.38 U	1.9 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	3.7 U	0.36 U	0.38 U	1.9 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	3.7 U	0.36 U	0.38 U	1.9 U
Aniline	mg/kg	-	-	1500	29000	-	4.4	-	-	-	0.38 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	3.7 U	0.36 U	0.38 U	1.9 U
Aramite	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.55 U	0.055 U	-	0.28 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	-	1.9 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Benzyl alcohol	mg/kg	-	-	5800	150000000	-	580	-	-	-	0.38 U	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	-	1.9 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*				
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	3.7 U	0.36 U	0.38 U	1.9 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	3.7 U	0.36 U	0.38 U	1.9 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	3.7 U	0.36 U	-	1.9 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	3.7 U	0.36 U	-	1.9 U
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Diallate	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	3.7 U	0.36 U	0.38 U	1.9 U
Dimethoate	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	3.7 U	0.36 U	0.38 U	1.9 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	3.7 U	0.36 U	0.38 U	1.9 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	3.7 U	0.36 U	0.38 U	1.9 U
Diphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.45 J	0.36 U	0.38 U	1.9 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.55 J	0.36 U	0.38 U	1.9 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	3.7 U	0.36 U	0.38 U	1.9 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	3.7 U	0.36 U	0.38 U	1.9 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	3.7 U	0.36 U	0.38 U	1.9 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	1.1 U	0.11 U	0.11 U	0.57 U
Hexachloropropene	mg/kg	-	-	-	-	-	-	-	-	-	3.8 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	3.7 U	0.36 U	0.38 U	1.9 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	3.7 U	0.36 U	0.38 U	1.9 U
Isosafrole	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	3.7 U	0.36 U	0.38 U	1.9 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	3.7 U	0.36 U	0.38 U	1.9 U
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	3.7 U	0.36 U	0.38 U	1.9 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	3.7 U	0.36 U	0.38 U	1.9 U
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-	-	-	0.38 U	-
Pentachlorobenzene	mg/kg	-	-	190	-	-	81	-	-	-	0.38 U	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	1.8 U	-
Pentachloronitrobenzene	mg/kg	-	-	5500	150000	220	37	280	-	-	1.8 U	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	3.7 U	0.36 U	0.38 U	1.9 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Phenacetin	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	1.2 J	0.069 J	0.38 U	0.22 J
Phenol	mg/kg	-	-	12000	18000000	-	260	-	3.7 U	0.36 U	0.38 U	1.9 U
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-	-	-	3.8 U	-
Pronamide	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	3.7 U	0.36 U	0.38 U	1.9 U
Pyridine	mg/kg	-	-	37	100000	2	0.42	9.8	-	-	0.75 U	-
Safrole	mg/kg	-	-	-	-	-	-	-	-	-	0.75 U	-
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	7170	7510	-	5590
Antimony	mg/kg	-	-	670	5900	-	4.3	-	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	6.8	5.9	9.6	6.5
Barium	mg/kg	75	118	130000	150000	-	1300	-	67	58.7	38.9 J	39
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.48 J	0.39 J	0.45 J	0.31 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.18 J	0.16 J	0.14 J	0.17 J
Calcium	mg/kg	-	88000	-	-	-	-	-	45300 J	43200 J	-	38200 J
Chromium	mg/kg	18	19	9200	240	-	30	-	14.2	12.1	19	9.7
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	0.989
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	**24.6**[e]	8.1	10	5.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	13.6	11.7	15.9	11.8
Iron	mg/kg	12000	27900	580000	-	-	6	-	14400	15900	-	13300
Lead	mg/kg	21	21	900	44000	-	700	-	8.1	7.5	11.2	6.1
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	15300	16200	-	12700
Manganese	mg/kg	440	513	90000	1500	-	1	-	283	316	-	294
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.014 J	0.012 J	0.011 J	0.089
Nickel	mg/kg	20	26	150000	16000	-	100	-	17.3	14.7	24.4 J	11.2
Potassium	mg/kg	-	2300	-	-	-	-	-	1510	1510	-	1250
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.13 J	0.13 J	0.15 J	0.15 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.05 J	0.04 J	0.055 J	0.037 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	554 U	153 J	-	244 J
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.061 J	0.041 J	0.24 J	0.02 J
Tin	mg/kg	-	-	-	-	-	-	-	-	-	5.7 U	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	21.6	22.5	18.5	18.4
Zinc	mg/kg	47	70	630000	-	-	5000	-	52.6	41.2	55.2	54.2
Polychlorinated Biphenyls												
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:									*BH-19-1-00*	*BH-19-1-00*	*BH-19-2-00*	*BH-19-3-00*
Sample ID:									*S-12636-060500-DRD-059*	*S-12636-060500-DRD-060*	*S-12636-060200-DRD-055*	*S-12636-060500-DRD-061*
Sample Date:									*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*
Sample Depth:									*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.5-2.5) ft*	*(0.42-2.42) ft*
										Duplicate		
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.037 U	0.036 U	0.038 U	0.037 U
Petroleum Products												
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.554 UJ	0.55 UJ	0.568 U	0.566 UJ
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	-	-	57 UJ	-
Total solids	%	-	-	-	-	-	-	-	90.2	90.9	88.0	88.3

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0027 J	0.0073	0.0039 J	0.0057
1,1,2,2-Tetrachloroethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,1,2-Trichloroethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,1-Dichloroethane	mg/kg	0.17 J	0.13 J	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0028 J
1,1-Dichloroethene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,2,3-Trichloropropane	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,2-Dichlorobenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,2-Dichloroethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,3-Dichlorobenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,4-Dichlorobenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
1,4-Dioxane	mg/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	1 U	1.1 U	0.89 U	0.019 U	0.024 U	0.018 U	0.022 U
2-Hexanone	mg/kg	1 U	1.1 U	0.89 U	0.019 U	0.024 U	0.018 U	0.022 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.11 J	1.5	1.3	0.019 U	0.024 U	0.018 U	0.022 U
Acetone	mg/kg	1 U	0.83 J	1.7	0.019 U	0.024 U	0.018 U	0.022 U
Acetonitrile	mg/kg	-	-	-	-	-	-	-
Acrolein	mg/kg	-	-	-	-	-	-	-
Acrylonitrile	mg/kg	-	-	-	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-
Benzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Bromodichloromethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Bromoform	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Bromomethane (Methyl bromide)	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Carbon disulfide	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Carbon tetrachloride	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Chlorobenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Chloroethane	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Chloroform (Trichloromethane)	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Chloromethane (Methyl chloride)	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Chloroprene	mg/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	0.13 U	0.14 U	0.11 U	0.0024 U	0.0029 U	0.0023 U	0.0028 U
cis-1,3-Dichloropropene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Cyclohexane	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Dibromochloromethane	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Dibromomethane	mg/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Iodomethane	mg/kg	-	-	-	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-	-	-	-	-
Isopropyl benzene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Methyl acetate	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	1 U	1.1 U	0.89 U	0.019 U	0.024 U	0.018 U	0.022 U
Methylene chloride	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-
Styrene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Tetrachloroethene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Toluene	mg/kg	0.88	0.2 J	0.22 U	0.0047 U	0.0004 J	0.0046 U	0.0056 U
trans-1,2-Dichloroethene	mg/kg	0.13 U	0.14 U	0.11 U	0.0024 U	0.0029 U	0.0023 U	0.0028 U
trans-1,3-Dichloropropene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-
Trichloroethene	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.25 U	0.29 U	0.22 U	0.0047 U	0.0059 U	0.0046 U	0.0056 U
Vinyl acetate	mg/kg	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	0.5 U	0.57 U	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Xylene (total)	mg/kg	0.034 J	0.04 J	0.45 U	0.0095 U	0.012 U	0.0092 U	0.011 U
Semi-volatile Organic Compounds								
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,4-Dichlorophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,4-Dimethylphenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,4-Dinitrophenol	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
2,4-Dinitrotoluene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
2-Chloronaphthalene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2-Chlorophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2-Methylnaphthalene	mg/kg	3.5 U	85 U	0.14 J	0.38 U	0.38 U	0.39 U	0.36 U
2-Methylphenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
2-Nitrophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
2-Picoline	mg/kg	-	-	-	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-
3-Methylphenol	mg/kg	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
4,6-Dinitro-2-methylphenol	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
4-Chloroaniline	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
4-Nitroaniline	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
4-Nitrophenol	mg/kg	17 U	410 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-
Acenaphthene	mg/kg	3.5 U	85 U	0.12 J	0.38 U	0.38 U	0.39 U	0.36 U
Acenaphthylene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Acetophenone	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Aniline	mg/kg	-	-	-	-	-	-	-
Anthracene	mg/kg	3.5 U	85 U	0.26 J	0.38 U	0.38 U	0.39 U	0.36 U
Aramite	mg/kg	-	-	-	-	-	-	-
Atrazine	mg/kg	0.53 U	13 U	0.056 U	0.057 U	0.058 U	0.058 U	0.054 U
Benzaldehyde	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Benzo(a)anthracene	mg/kg	3.5 U	85 U	0.18 J	0.38 U	0.38 U	0.39 U	0.36 U
Benzo(a)pyrene	mg/kg	0.53 J	85 U	0.14 J	0.38 U	0.38 U	0.39 U	0.36 U
Benzo(b)fluoranthene	mg/kg	3.5 U	85 U	0.19 J	0.38 U	0.38 U	0.39 U	0.36 U
Benzo(g,h,i)perylene	mg/kg	3.5 U	85 U	0.13 J	0.38 U	0.38 U	0.39 U	0.36 U
Benzo(k)fluoranthene	mg/kg	3.5 U	85 U	0.068 J	0.38 U	0.38 U	0.39 U	0.36 U
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	3.5 U	85 U	0.06 J	0.38 U	0.38 U	0.39 U	0.36 U
bis(2-Chloroethoxy)methane	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
bis(2-Chloroethyl)ether	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	3.5 U	85 U	0.78	0.38 U	0.38 U	0.39 U	0.36 U
Butyl benzylphthalate (BBP)	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Caprolactam	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Carbazole	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-
Chrysene	mg/kg	0.62 J	85 U	0.21 J	0.38 U	0.38 U	0.39 U	0.36 U
Diallate	mg/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Dibenzofuran	mg/kg	3.5 U	85 U	0.13 J	0.38 U	0.38 U	0.39 U	0.36 U
Diethyl phthalate	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Dimethoate	mg/kg	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Di-n-butylphthalate (DBP)	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Di-n-octyl phthalate (DnOP)	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Diphenylamine	mg/kg	-	-	-	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Fluoranthene	mg/kg	3.5 U	85 U	0.48	0.38 U	0.38 U	0.049 J	0.36 U
Fluorene	mg/kg	3.5 U	85 U	0.22 J	0.38 U	0.38 U	0.39 U	0.36 U
Hexachlorobenzene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Hexachlorobutadiene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Hexachlorocyclopentadiene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Hexachloroethane	mg/kg	1.1 U	26 U	0.11 U	0.11 U	0.12 U	0.12 U	0.11 U
Hexachloropropene	mg/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	3.5 U	85 U	0.12 J	0.38 U	0.38 U	0.39 U	0.36 U
Isophorone	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
Isosafrole	mg/kg	-	-	-	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-
Naphthalene	mg/kg	3.5 U	85 U	0.068 J	0.38 U	0.38 U	0.39 U	0.36 U
Nitrobenzene	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
N-Nitrosodiphenylamine	mg/kg	0.94 J	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	-	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	3.5 U	85 U	0.37 U	0.38 U	0.38 U	0.39 U	0.36 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
Phenacetin	mg/kg	-	-	-	-	-	-	-
Phenanthrene	mg/kg	0.63 J	85 U	1.2	0.38 U	0.38 U	0.39 U	0.36 U
Phenol	mg/kg	3.5 U	85 U	0.058 J	0.38 U	0.38 U	0.39 U	0.36 U
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-
Pyrene	mg/kg	3.5 U	85 U	0.4	0.38 U	0.38 U	0.39 U	0.36 U
Pyridine	mg/kg	-	-	-	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	2050	2010	8290	8020	6590	9260	4030
Antimony	mg/kg	0.39 J	0.31 J	1.1 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ
Arsenic	mg/kg	3.3	3.8	8.1	7.5	7.4	7.6	5.6
Barium	mg/kg	89.9	102	63.8 J	56.1	75.4	105 J	21.9 J
Beryllium	mg/kg	0.13 J	0.14 J	0.6	0.43 J	0.38 J	0.66	0.26 J
Cadmium	mg/kg	0.37 J	0.15 J	0.16 J	0.16 J	0.15 J	0.18 J	0.13 J
Calcium	mg/kg	32500 J	29300 J	51500	51100 J	48500 J	60900	9690
Chromium	mg/kg	4.1	3.9	14	13.5	12.3	13.3	8.5
Chromium VI (hexavalent)	mg/kg	0.992	0.7 U	0.7 U	1.173	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	2.1	2.1	10	6.9	7.7	10.4	4
Copper	mg/kg	26.4	8.7	14.3	15.5	16.8	13.7	8.6
Iron	mg/kg	6380	6310	18700	17000	15300	19300	11200
Lead	mg/kg	6.1	4.9	9	9.7	8.8	10.4	6.6
Magnesium	mg/kg	12700	8720	19900	20300	19800	22600	4220
Manganese	mg/kg	155	117	336	334	501	620[e]	256
Mercury	mg/kg	0.015 J	0.036 U	0.01 J	0.013 J	0.0069 J	0.0093 J	0.013 J
Nickel	mg/kg	4.2	4.8	19.8 J	17	16.9	23.2 J	10.2 J
Potassium	mg/kg	434	349	1260 J	1870	1440	1500 J	442 J
Selenium	mg/kg	0.11 J	0.24 J	0.25 J	0.16 J	0.12 J	2.9 U	0.19 J
Silver	mg/kg	0.1 J	0.051 J	0.041 J	0.048 J	0.055 J	0.038 J	0.016 J
Sodium	mg/kg	145 J	204 J	557 U	216 J	215 J	584 U	541 U
Thallium	mg/kg	0.53 U	0.54 U	0.16 J	0.066 J	0.061 J	0.21 J	0.073 J
Tin	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	8.9	9.2	23.6	24.3	20.6	25.4	13.8
Zinc	mg/kg	313	64.3	51.8	45.5	47.2	47.7	35.5
Polychlorinated Biphenyls								
Aroclor-1016 (PCB-1016)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*BH-19-4-00*	*BH-19-4-00*	*BH-19-5-00*	*BH-19-6-00*	*BH-19-6-00*	*BH-19-7-00*	*BH-19-8-00*
Sample ID:		*S-12636-060500-DRD-057*	*S-12636-060500-DRD-058*	*S-12636-060200-DRD-054*	*S-12636-060500-DRD-062*	*S-12636-060500-DRD-063*	*S-12636-060200-DRD-056*	*S-12636-060200-DRD-053*
Sample Date:		*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/5/2000*	*6/5/2000*	*6/2/2000*	*6/2/2000*
Sample Depth:		*(1-3) ft*	*(9-10) ft*	*(0.58-3) ft*	*(0.42-2.42) ft*	*(5.5-6.5) ft*	*(0.5-2.5) ft*	*(0.58-3) ft*
Parameters:	***Units***							
Aroclor-1254 (PCB-1254)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Aroclor-1260 (PCB-1260)	mg/kg	0.035 U	0.036 UJ	0.037 U	0.038 U	0.038 U	0.039 U	0.036 U
Petroleum Products								
Diesel fuel	mg/kg	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.529 UJ	0.539 UJ	0.557 U	0.571 UJ	0.577 UJ	0.584 U	0.541 U
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-
Total solids	%	94.5	92.7	89.8	87.5	86.7	85.7	92.5

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 19***	***AOI 19***	***AOI 19***
Sample Location:		***GP-1***	***GP-2***	***Q-12***
Sample ID:		***GP-1***	***GP-2***	***Q-12***
Sample Date:		***8/30/1996***	***8/30/1996***	***11/6/1996***
Sample Depth:		***(4-8) ft***	***(0-2) ft***	***-***
Parameters:	***Units***			
Volatile Organic Compounds				
1,1,1,2-Tetrachloroethane	mg/kg	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-
1,1-Dichloroethane	mg/kg	-	-	U
1,1-Dichloroethene	mg/kg	-	-	U
1,2,3-Trichloropropane	mg/kg	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-
1,2-Dichloroethene (total)	mg/kg	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-
1,4-Dioxane	mg/kg	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-
2-Hexanone	mg/kg	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-
Acetone	mg/kg	-	-	-
Acetonitrile	mg/kg	-	-	-
Acrolein	mg/kg	-	-	-
Acrylonitrile	mg/kg	-	-	-
Allyl chloride	mg/kg	-	-	-
Benzene	mg/kg	-	-	-
Bromodichloromethane	mg/kg	-	-	-
Bromoform	mg/kg	-	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-	-
Carbon disulfide	mg/kg	-	-	-
Carbon tetrachloride	mg/kg	-	-	-
Chlorobenzene	mg/kg	-	-	-
Chloroethane	mg/kg	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	U
Chloromethane (Methyl chloride)	mg/kg	-	-	-
Chloroprene	mg/kg	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-
Cyclohexane	mg/kg	-	-	-
Dibromochloromethane	mg/kg	-	-	-
Dibromomethane	mg/kg	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 19***	***AOI 19***	***AOI 19***
Sample Location:		***GP-1***	***GP-2***	***Q-12***
Sample ID:		***GP-1***	***GP-2***	***Q-12***
Sample Date:		***8/30/1996***	***8/30/1996***	***11/6/1996***
Sample Depth:		***(4-8) ft***	***(0-2) ft***	***-***
Parameters:	***Units***			
Ethyl methacrylate	mg/kg	-	-	-
Ethylbenzene	mg/kg	-	-	U
Iodomethane	mg/kg	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	-
Isopropyl benzene	mg/kg	-	-	-
Methyl acetate	mg/kg	-	-	-
Methyl acrylonitrile	mg/kg	-	-	-
Methyl cyclohexane	mg/kg	-	-	-
Methyl methacrylate	mg/kg	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-
Methylene chloride	mg/kg	-	-	0.0123
Propionitrile (ethyl cyanide)	mg/kg	-	-	-
Styrene	mg/kg	-	-	-
Tetrachloroethene	mg/kg	-	-	0.0008
Toluene	mg/kg	-	-	U
trans-1,2-Dichloroethene	mg/kg	-	-	U
trans-1,3-Dichloropropene	mg/kg	-	-	-
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-
Trichloroethene	mg/kg	-	-	0.0008
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-
Vinyl acetate	mg/kg	-	-	-
Vinyl chloride	mg/kg	-	-	-
Xylene (total)	mg/kg	-	-	U
Semi-volatile Organic Compounds				
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-
1-Naphthylamine	mg/kg	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-
2,6-Dichlorophenol	mg/kg	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-
2-Acetylaminofluorene	mg/kg	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*GP-1*	*GP-2*	*Q-12*
Sample ID:		*GP-1*	*GP-2*	*Q-12*
Sample Date:		*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	***Units***			
2-Chloronaphthalene	mg/kg	-	-	-
2-Chlorophenol	mg/kg	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-
2-Methylphenol	mg/kg	-	-	-
2-Naphthylamine	mg/kg	-	-	-
2-Nitroaniline	mg/kg	-	-	-
2-Nitrophenol	mg/kg	-	-	-
2-Picoline	mg/kg	-	-	-
2-Toluidine	mg/kg	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-
3,3-Dimethylbenzidine	mg/kg	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-
3-Methylphenol	mg/kg	-	-	-
3-Nitroaniline	mg/kg	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-
4-Aminobiphenyl	mg/kg	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-
4-Chloroaniline	mg/kg	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-	-
4-Methylphenol	mg/kg	-	-	-
4-Nitroaniline	mg/kg	-	-	-
4-Nitrophenol	mg/kg	-	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-
Acenaphthene	mg/kg	-	-	-
Acenaphthylene	mg/kg	-	-	-
Acetophenone	mg/kg	-	-	-
Aniline	mg/kg	-	-	-
Anthracene	mg/kg	-	-	-
Aramite	mg/kg	-	-	-
Atrazine	mg/kg	-	-	-
Benzaldehyde	mg/kg	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-
Benzyl alcohol	mg/kg	-	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*GP-1*	*GP-2*	*Q-12*
Sample ID:		*GP-1*	*GP-2*	*Q-12*
Sample Date:		*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	***Units***			
bis(2-Chloroethyl)ether	mg/kg	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-
Caprolactam	mg/kg	-	-	-
Carbazole	mg/kg	-	-	-
Chlorobenzilate	mg/kg	-	-	-
Chrysene	mg/kg	-	-	-
Diallate	mg/kg	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-
Dibenzofuran	mg/kg	-	-	-
Diethyl phthalate	mg/kg	-	-	-
Dimethoate	mg/kg	-	-	-
Dimethyl phthalate	mg/kg	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-
Diphenylamine	mg/kg	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-
Fluoranthene	mg/kg	-	-	-
Fluorene	mg/kg	-	-	-
Hexachlorobenzene	mg/kg	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-
Hexachloroethane	mg/kg	-	-	-
Hexachloropropene	mg/kg	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-
Isophorone	mg/kg	-	-	-
Isosafrole	mg/kg	-	-	-
Methapyrilene	mg/kg	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-
Naphthalene	mg/kg	-	-	-
Nitrobenzene	mg/kg	-	-	-
N-Nitrosodiethylamine	mg/kg	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-
N-Nitrosomethylethylamine	mg/kg	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-
Pentachlorobenzene	mg/kg	-	-	-
Pentachloroethane	mg/kg	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	-
Pentachlorophenol	mg/kg	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*GP-1*	*GP-2*	*Q-12*
Sample ID:		*GP-1*	*GP-2*	*Q-12*
Sample Date:		*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	***Units***			
Phenacetin	mg/kg	-	-	-
Phenanthrene	mg/kg	-	-	-
Phenol	mg/kg	-	-	-
p-Phenylenediamine	mg/kg	-	-	-
Pronamide	mg/kg	-	-	-
Pyrene	mg/kg	-	-	-
Pyridine	mg/kg	-	-	-
Safrole	mg/kg	-	-	-
Metals				
Aluminum	mg/kg	-	-	-
Antimony	mg/kg	-	-	-
Arsenic	mg/kg	8.5	6.6	5.98
Barium	mg/kg	57	73	44.1
Beryllium	mg/kg	-	-	-
Cadmium	mg/kg	0.14	0.13	U
Calcium	mg/kg	-	-	-
Chromium	mg/kg	14	11	11.6
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	-	-	-
Copper	mg/kg	14	13	U
Iron	mg/kg	-	-	-
Lead	mg/kg	8.8	8.1	7.2
Magnesium	mg/kg	-	-	-
Manganese	mg/kg	-	-	-
Mercury	mg/kg	0.1 U	0.1 U	U
Nickel	mg/kg	-	-	-
Potassium	mg/kg	-	-	-
Selenium	mg/kg	0.72	0.66	U
Silver	mg/kg	0.5 U	0.5 U	U
Sodium	mg/kg	-	-	-
Thallium	mg/kg	-	-	-
Tin	mg/kg	-	-	-
Vanadium	mg/kg	-	-	-
Zinc	mg/kg	40	39	U
Polychlorinated Biphenyls				
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-

APPENDIX B.1
AOI 19
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*AOI 19*	*AOI 19*	*AOI 19*
Sample Location:		*GP-1*	*GP-2*	*Q-12*
Sample ID:		*GP-1*	*GP-2*	*Q-12*
Sample Date:		*8/30/1996*	*8/30/1996*	*11/6/1996*
Sample Depth:		*(4-8) ft*	*(0-2) ft*	*-*
Parameters:	***Units***			
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-
Petroleum Products				
Diesel fuel	mg/kg	6.6 U	6.6 U	-
General Chemistry				
Cyanide (total)	mg/kg	-	-	-
Sulfide (acid insoluble)	mg/kg	-	-	-
Total solids	%	-	-	-

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 20*	*AOI 20*	*AOI 20*	*AOI 20*	*AOI 20*
Sample Location:									*BH-20-1-00*	*BH-20-2-00*	*BH-20-2-00*	*BH-20-3-00*	*BH-20-4-00*
Sample ID:									*S-12636-060100-DRD-045*	*S-12636-060100-DRD-046*	*S-12636-060100-DRD-047*	*S-12636-060100-DRD-044*	*S-12636-060100-DRD-043*
Sample Date:									*6/1/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(0.33-2.33) ft*	*(0.42-3) ft*	*(7-8) ft*	*(0.66-3) ft*	*(0.66-3) ft*
Parameters:	*Units*	*Statewide*	*a*	*b*	*c*	*d*	*e*	*f*					
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/kg	-	-	440	530000	33	6.4	120	0.0046 U	-	-	-	-
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.019
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0046 U	0.0044 U	0.00088 J	0.0057 U	0.0049 U
1,2,3-Trichloropropane	mg/kg	-	-	830	-	-	2.4	-	0.0046 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	-	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,2-Dichloroethene (total)	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0046 U	0.0044 U	0.0043 UJ	0.00038 J	0.0049 U
1,4-Dioxane	mg/kg	-	-	2400	710000	-	7	-	0.46 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.018 U	0.017 U	0.017 UJ	0.023 U	0.0012 J
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.018 U	0.017 U	0.017 UJ	0.023 U	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK	mg/kg	-	-	2700	60000000	2700	100	53000	0.018 U	0.017 U	0.017 UJ	0.023 U	0.02 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.018 U	0.017 U	0.017 UJ	0.023 U	0.02 U
Acetonitrile	mg/kg	-	-	14000	1800000	8800	8	1900	0.092 U	-	-	-	-
Acrolein	mg/kg	-	-	12000	590	0.76	6.6	0.37	0.092 U	-	-	-	-
Acrylonitrile	mg/kg	-	-	74	58000	35	0.22	17	0.092 U	-	-	-	-
Allyl chloride	mg/kg	-	-	-	-	-	-	-	0.0092 U	-	-	-	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0046 U	0.0004 J	0.0043 UJ	0.0057 U	0.0049 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Chloroprene	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	-	0.0022 U	0.0022 UJ	0.0028 U	0.0025 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	-	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Dibromomethane	mg/kg	-	-	2000	-	-	4.6	-	0.0046 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	1500000000	1700	270	63000	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***
Sample Location:									***BH-20-1-00***	***BH-20-2-00***	***BH-20-2-00***	***BH-20-3-00***	***BH-20-4-00***
Sample ID:									***S-12636-060100-DRD-045***	***S-12636-060100-DRD-046***	***S-12636-060100-DRD-047***	***S-12636-060100-DRD-044***	***S-12636-060100-DRD-043***
Sample Date:									***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***
Sample Depth:									***(0.33-2.33) ft***	***(0.42-3) ft***	***(7-8) ft***	***(0.66-3) ft***	***(0.66-3) ft***
Ethyl methacrylate	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Iodomethane	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-	8900	44000000	8900	130	95000	0.18 U	-	-	-	-
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	-	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	-	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Methyl acrylonitrile	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	-	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Methyl methacrylate	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	-	0.017 U	0.017 UJ	0.023 U	0.02 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	-	-
Propionitrile (ethyl cyanide)	mg/kg	-	-	-	-	-	-	-	0.018 U	-	-	-	-
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	-	0.0022 U	0.0022 UJ	0.0028 U	0.0025 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0046 U	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-	-	-	-	-	-	0.0046 U	-	-	-	-
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0046 U	0.0044 U	0.0043 UJ	0.0041 J	0.0049 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	170000000(	560	150	110000	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	230000000(	550	550	210000	-	0.0044 U	0.0043 UJ	0.0057 U	0.0049 U
Vinyl acetate	mg/kg	-	-	2400	5900000	1500	36	2000	0.0092 U	-	-	-	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0092 U	0.0087 U	0.0087 UJ	0.011 U	0.0098 U
Semi-volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-	250000	-	-	1500	-	0.38 U	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.38 U	-	-	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
1,3-Dinitrobenzene	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
1,4-Naphthoquinone	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
1-Naphthylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,3,4,6-Tetrachlorophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2,6-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2-Acetylaminofluorene	mg/kg	-	-	-	-	-	-	-	3.8 U	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 20*	*AOI 20*	*AOI 20*	*AOI 20*	*AOI 20*
Sample Location:									*BH-20-1-00*	*BH-20-2-00*	*BH-20-2-00*	*BH-20-3-00*	*BH-20-4-00*
Sample ID:									*S-12636-060100-DRD-045*	*S-12636-060100-DRD-046*	*S-12636-060100-DRD-047*	*S-12636-060100-DRD-044*	*S-12636-060100-DRD-043*
Sample Date:									*6/1/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*	*6/1/2000*
Sample Depth:									*(0.33-2.33) ft*	*(0.42-3) ft*	*(7-8) ft*	*(0.66-3) ft*	*(0.66-3) ft*
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2-Naphthylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
2-Picoline	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
2-Toluidine	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
3,3-Dimethylbenzidine	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
3-Methylcholanthrene	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
3-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4-Aminobiphenyl	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
4-Dimethylaminoazobenzene	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
4-Nitroquinoline-N-oxide	mg/kg	-	-	-	-	-	-	-	3.8 U	-	-	-	-
5-Nitro-2-toluidine	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Aniline	mg/kg	-	-	1500	29000	-	4.4	-	0.38 U	-	-	-	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Aramite	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Atrazine	mg/kg	-	-	330	-	-	0.06	-	-	0.057 U	0.057 U	0.057 U	0.056 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.37 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Benzyl alcohol	mg/kg	-	-	5800	150000000	-	580	-	0.38 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.37 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	-	0.38 U	0.38 U	0.38 U	0.37 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	-	0.38 U	0.38 U	0.38 U	0.37 U
Chlorobenzilate	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***
Sample Location:									***BH-20-1-00***	***BH-20-2-00***	***BH-20-2-00***	***BH-20-3-00***	***BH-20-4-00***
Sample ID:									***S-12636-060100-DRD-045***	***S-12636-060100-DRD-046***	***S-12636-060100-DRD-047***	***S-12636-060100-DRD-044***	***S-12636-060100-DRD-043***
Sample Date:									***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***
Sample Depth:									***(0.33-2.33) ft***	***(0.42-3) ft***	***(7-8) ft***	***(0.66-3) ft***	***(0.66-3) ft***
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Diallate	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Dimethoate	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Diphenylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
Ethyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Hexachloropropene	mg/kg	-	-	-	-	-	-	-	3.8 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Isosafrole	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Methapyrilene	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
Methyl methanesulfonate	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
N-Nitrosodiethylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
N-Nitrosomethylethylamine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosomorpholine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosopiperidine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
N-Nitrosopyrrolidine	mg/kg	-	-	-	-	-	-	-	0.38 U	-	-	-	-
Pentachlorobenzene	mg/kg	-	-	190	-	-	81	-	0.38 U	-	-	-	-
Pentachloroethane	mg/kg	-	-	-	-	-	-	-	1.8 U	-	-	-	-
Pentachloronitrobenzene	mg/kg	-	-	5500	150000	220	37	280	1.8 U	-	-	-	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Phenacetin	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
p-Phenylenediamine	mg/kg	-	-	-	-	-	-	-	3.8 U	-	-	-	-
Pronamide	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38 U	0.38 U	0.38 U	0.38 U	0.37 U
Pyridine	mg/kg	-	-	37	100000	2	0.42	9.8	0.75 U	-	-	-	-
Safrole	mg/kg	-	-	-	-	-	-	-	0.75 U	-	-	-	-

Metals

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***	***AOI 20***
Sample Location:									***BH-20-1-00***	***BH-20-2-00***	***BH-20-2-00***	***BH-20-3-00***	***BH-20-4-00***
Sample ID:									***S-12636-060100-DRD-045***	***S-12636-060100-DRD-046***	***S-12636-060100-DRD-047***	***S-12636-060100-DRD-044***	***S-12636-060100-DRD-043***
Sample Date:									***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***	***6/1/2000***
Sample Depth:									***(0.33-2.33) ft***	***(0.42-3) ft***	***(7-8) ft***	***(0.66-3) ft***	***(0.66-3) ft***
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	-	9590	8720	4340	9930
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.2 J	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	5.3	5.6	6.1	4.3	7.2
Barium	mg/kg	75	118	130000	150000	-	1300	-	44.4	46.6	46.3	21.4	55.8
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.48 J	0.59	0.49 J	0.18 J	0.54 J
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.13 J	0.2 J	0.17 J	0.15 J	0.15 J
Calcium	mg/kg	-	88000	-	-	-	-	-	-	55400	48900	2580	54700
Chromium	mg/kg	18	19	9200	240	-	30	-	13.3	15.9	15.5	6.5	16.2
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	6.96	0.7 U	0.7 U	0.7 U
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	6.7	8.6	8.3	3.6	8
Copper	mg/kg	32	32	73000	59000	-	5800	-	11.2	14.5	14.3	7.3	13.6
Iron	mg/kg	12000	27900	580000	-	-	6	-	-	18400	19000	8580	21200
Lead	mg/kg	21	21	900	44000	-	700	-	7.2	14	8.2	5.5	7.7
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	-	24300 J	22000 J	1540 J	23200 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	-	323	393	160	265
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0099 J	0.012 J	0.011 J	0.017 J	0.012 J
Nickel	mg/kg	20	26	150000	16000	-	100	-	17.4	22.9	21.7	8.4	22.5
Potassium	mg/kg	-	2300	-	-	-	-	-	-	2160	1950	390	2360
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.18 J	0.75 J	0.26 J	0.12 J	0.28 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.14 J	0.081 J	0.086 J	0.039 J	0.091 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	-	574 U	572 U	574 U	565 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.16 J	0.22 J	0.18 J	0.07 J	0.18 J
Tin	mg/kg	-	-	-	-	-	-	-	5.9	-	-	-	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	23.2 J	26.4 J	27 J	12.6 J	28.1 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	37.6	51.7	56.2	32.1	46.8
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.038 U	0.038 U	0.038 U	0.038 U	0.037 U
Pesticides													
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.569 U	0.574 U	0.572 U	0.574 U	0.44 J
Sulfide (acid insoluble)	mg/kg	-	-	-	-	-	-	-	57 U	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	87.8	87.2	87.4	87.1	88.6

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 20***	***AOI 20***
Sample Location:		***PFW-8***	***PFW-8***
Sample ID:		***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:		***3/19/1997***	***3/19/1997***
Sample Depth:		***(0-2) ft***	***(6-7.8) ft***
Parameters:	***Units***		
Volatile Organic Compounds			
1,1,1,2-Tetrachloroethane	mg/kg	-	-
1,1,1-Trichloroethane	mg/kg	-	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	-	0.01 U
1,1,2-Trichloroethane	mg/kg	-	0.01 U
1,1-Dichloroethane	mg/kg	-	0.01 U
1,1-Dichloroethene	mg/kg	-	0.01 U
1,2,3-Trichloropropane	mg/kg	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-
1,2-Dichlorobenzene	mg/kg	-	0.01 U
1,2-Dichloroethane	mg/kg	-	0.01 U
1,2-Dichloroethene (total)	mg/kg	-	-
1,2-Dichloropropane	mg/kg	-	0.01 U
1,3-Dichlorobenzene	mg/kg	-	0.01 U
1,4-Dichlorobenzene	mg/kg	-	0.01 U
1,4-Dioxane	mg/kg	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-
2-Chloroethyl vinyl ether	mg/kg	-	0.1 U
2-Hexanone	mg/kg	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK	mg/kg	-	-
Acetone	mg/kg	-	-
Acetonitrile	mg/kg	-	-
Acrolein	mg/kg	-	-
Acrylonitrile	mg/kg	-	-
Allyl chloride	mg/kg	-	-
Benzene	mg/kg	-	0.01 U
Bromodichloromethane	mg/kg	-	0.01 U
Bromoform	mg/kg	-	0.01 U
Bromomethane (Methyl bromide)	mg/kg	-	0.01 U
Carbon disulfide	mg/kg	-	-
Carbon tetrachloride	mg/kg	-	0.01 U
Chlorobenzene	mg/kg	-	0.01 U
Chloroethane	mg/kg	-	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	0.01 U
Chloromethane (Methyl chloride)	mg/kg	-	0.01 U
Chloroprene	mg/kg	-	-
cis-1,2-Dichloroethene	mg/kg	-	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	0.01 U
Cyclohexane	mg/kg	-	-
Dibromochloromethane	mg/kg	-	0.01 U
Dibromomethane	mg/kg	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	0.01 U

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 20***	***AOI 20***
Sample Location:		***PFW-8***	***PFW-8***
Sample ID:		***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:		***3/19/1997***	***3/19/1997***
Sample Depth:		***(0-2) ft***	***(6-7.8) ft***
Ethyl methacrylate	mg/kg	-	-
Ethylbenzene	mg/kg	-	0.01 U
Iodomethane	mg/kg	-	-
Isobutanol (isobutyl alcohol)	mg/kg	-	-
Isopropyl benzene	mg/kg	-	-
m&p-Xylene	mg/kg	-	0.03 U
Methyl acetate	mg/kg	-	-
Methyl acrylonitrile	mg/kg	-	-
Methyl cyclohexane	mg/kg	-	-
Methyl methacrylate	mg/kg	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-
Methylene chloride	mg/kg	-	0.01 U
o-Xylene	mg/kg	-	0.03 U
Propionitrile (ethyl cyanide)	mg/kg	-	-
Styrene	mg/kg	-	-
Tetrachloroethene	mg/kg	-	0.01 U
Toluene	mg/kg	-	0.01 U
trans-1,2-Dichloroethene	mg/kg	-	0.01 U
trans-1,3-Dichloropropene	mg/kg	-	0.01 U
trans-1,4-Dichloro-2-butene	mg/kg	-	-
Trichloroethene	mg/kg	-	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	0.01 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-
Vinyl acetate	mg/kg	-	-
Vinyl chloride	mg/kg	-	0.01 U
Xylene (total)	mg/kg	-	-
Semi-volatile Organic Compounds			
1,2,4,5-Tetrachlorobenzene	mg/kg	-	-
1,2,4-Trichlorobenzene	mg/kg	-	-
1,3,5-Trinitrobenzene	mg/kg	-	-
1,3-Dinitrobenzene	mg/kg	-	-
1,4-Naphthoquinone	mg/kg	-	-
1-Naphthylamine	mg/kg	-	-
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-
2,3,4,6-Tetrachlorophenol	mg/kg	-	-
2,4,5-Trichlorophenol	mg/kg	-	-
2,4,6-Trichlorophenol	mg/kg	-	-
2,4-Dichlorophenol	mg/kg	-	-
2,4-Dimethylphenol	mg/kg	-	-
2,4-Dinitrophenol	mg/kg	-	-
2,4-Dinitrotoluene	mg/kg	-	-
2,6-Dichlorophenol	mg/kg	-	-
2,6-Dinitrotoluene	mg/kg	-	-
2-Acetylaminofluorene	mg/kg	-	-
2-Chloronaphthalene	mg/kg	-	-
2-Chlorophenol	mg/kg	-	-

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 20***	***AOI 20***
Sample Location:		***PFW-8***	***PFW-8***
Sample ID:		***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:		***3/19/1997***	***3/19/1997***
Sample Depth:		***(0-2) ft***	***(6-7.8) ft***
2-Methylnaphthalene	mg/kg	-	-
2-Methylphenol	mg/kg	-	-
2-Naphthylamine	mg/kg	-	-
2-Nitroaniline	mg/kg	-	-
2-Nitrophenol	mg/kg	-	-
2-Picoline	mg/kg	-	-
2-Toluidine	mg/kg	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-
3,3-Dimethylbenzidine	mg/kg	-	-
3-Methylcholanthrene	mg/kg	-	-
3-Methylphenol	mg/kg	-	-
3-Nitroaniline	mg/kg	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-
4-Aminobiphenyl	mg/kg	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-
4-Chloro-3-methylphenol	mg/kg	-	-
4-Chloroaniline	mg/kg	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-
4-Dimethylaminoazobenzene	mg/kg	-	-
4-Methylphenol	mg/kg	-	-
4-Nitroaniline	mg/kg	-	-
4-Nitrophenol	mg/kg	-	-
4-Nitroquinoline-N-oxide	mg/kg	-	-
5-Nitro-2-toluidine	mg/kg	-	-
7,12-Dimethylbenz(a)anthracene	mg/kg	-	-
a,a-Dimethylphenethylamine	mg/kg	-	-
Acenaphthene	mg/kg	0.33 U	-
Acenaphthylene	mg/kg	0.33 U	-
Acetophenone	mg/kg	-	-
Aniline	mg/kg	-	-
Anthracene	mg/kg	0.33 U	-
Aramite	mg/kg	-	-
Atrazine	mg/kg	-	-
Benzaldehyde	mg/kg	-	-
Benzo(a)anthracene	mg/kg	0.33 U	-
Benzo(a)pyrene	mg/kg	0.33 U	-
Benzo(b)fluoranthene	mg/kg	0.33 U	-
Benzo(g,h,i)perylene	mg/kg	0.33 U	-
Benzo(k)fluoranthene	mg/kg	0.33 U	-
Benzyl alcohol	mg/kg	-	-
Biphenyl (1,1-Biphenyl)	mg/kg	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-
Caprolactam	mg/kg	-	-
Carbazole	mg/kg	-	-
Chlorobenzilate	mg/kg	-	-

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 20***	***AOI 20***
Sample Location:		***PFW-8***	***PFW-8***
Sample ID:		***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:		***3/19/1997***	***3/19/1997***
Sample Depth:		***(0-2) ft***	***(6-7.8) ft***
Chrysene	mg/kg	0.33 U	-
Diallate	mg/kg	-	-
Dibenz(a,h)anthracene	mg/kg	0.33 U	-
Dibenzofuran	mg/kg	-	-
Diethyl phthalate	mg/kg	-	-
Dimethoate	mg/kg	-	-
Dimethyl phthalate	mg/kg	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-
Diphenylamine	mg/kg	-	-
Ethyl methanesulfonate	mg/kg	-	-
Fluoranthene	mg/kg	0.33 U	-
Fluorene	mg/kg	0.33 U	-
Hexachlorobenzene	mg/kg	-	-
Hexachlorobutadiene	mg/kg	-	-
Hexachlorocyclopentadiene	mg/kg	-	-
Hexachloroethane	mg/kg	-	-
Hexachloropropene	mg/kg	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.33 U	-
Isophorone	mg/kg	-	-
Isosafrole	mg/kg	-	-
Methapyrilene	mg/kg	-	-
Methyl methanesulfonate	mg/kg	-	-
Naphthalene	mg/kg	0.33 U	-
Nitrobenzene	mg/kg	-	-
N-Nitrosodiethylamine	mg/kg	-	-
N-Nitrosodimethylamine	mg/kg	-	-
N-Nitrosodi-n-butylamine	mg/kg	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-
N-Nitrosodiphenylamine	mg/kg	-	-
N-Nitrosomethylethylamine	mg/kg	-	-
N-Nitrosomorpholine	mg/kg	-	-
N-Nitrosopiperidine	mg/kg	-	-
N-Nitrosopyrrolidine	mg/kg	-	-
Pentachlorobenzene	mg/kg	-	-
Pentachloroethane	mg/kg	-	-
Pentachloronitrobenzene	mg/kg	-	-
Pentachlorophenol	mg/kg	-	-
Phenacetin	mg/kg	-	-
Phenanthrene	mg/kg	0.33 U	-
Phenol	mg/kg	-	-
p-Phenylenediamine	mg/kg	-	-
Pronamide	mg/kg	-	-
Pyrene	mg/kg	0.33 U	-
Pyridine	mg/kg	-	-
Safrole	mg/kg	-	-
Metals			

APPENDIX B.1
AOI 20
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		***AOI 20***	***AOI 20***
Sample Location:		***PFW-8***	***PFW-8***
Sample ID:		***PFW-8 0-2***	***PFW-8 6-7.8***
Sample Date:		***3/19/1997***	***3/19/1997***
Sample Depth:		***(0-2) ft***	***(6-7.8) ft***
Aluminum	mg/kg	-	-
Antimony	mg/kg	-	-
Arsenic	mg/kg	6	-
Barium	mg/kg	61	-
Beryllium	mg/kg	-	-
Cadmium	mg/kg	0.68	-
Calcium	mg/kg	-	-
Chromium	mg/kg	15	-
Chromium VI (hexavalent)	mg/kg	-	-
Cobalt	mg/kg	-	-
Copper	mg/kg	11	-
Iron	mg/kg	-	-
Lead	mg/kg	15	-
Magnesium	mg/kg	-	-
Manganese	mg/kg	-	-
Mercury	mg/kg	0.1 U	-
Nickel	mg/kg	-	-
Potassium	mg/kg	-	-
Selenium	mg/kg	0.5 U	-
Silver	mg/kg	0.6	-
Sodium	mg/kg	-	-
Thallium	mg/kg	-	-
Tin	mg/kg	-	-
Vanadium	mg/kg	-	-
Zinc	mg/kg	37	-
Polychlorinated Biphenyls			
Aroclor-1016 (PCB-1016)	mg/kg	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-
Pesticides			
Total PCBs	mg/kg	0.33 U	-
General Chemistry			
Cyanide (total)	mg/kg	-	-
Sulfide (acid insoluble)	mg/kg	-	-
Total solids	%	87.90	88.03

APPENDIX B.1
AOI 20-22
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*AOI 20/22*
Sample Location:									*MW-5*	*MW-5*	*MW-6*	*MW-6*	*MW-7*	*MW-8*	*MW-8*	*MW-9*
Sample ID:									*MW-5 (3-5)*	*MW-5 (8-10)*	*MW-6 (3-5)*	*MW-6 (8-10)*	*MW-7 (4-6)*	*MW-8 (4-6)*	*MW-8 (8-10)*	*MW-9 (4-6)*
Sample Date:									*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:									*(3-5) ft*	*(8-10) ft*	*(3-5) ft*	*(8-10) ft*	*(4-6) ft*	*(4-6) ft*	*(8-10) ft*	*(4-6) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***								
Volatile Organic Compounds																
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	U	U	U	U	U	U	U	U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	U	U	U	U	U	U	U	U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	U	U	U	U	U	U	U	U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	U	U	U	U	U	U	0.0058	U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	U	U	U	0.0371	0.0152	0.0541	0.0117	0.0088
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	U	U	U	U	U	0.0044	U	U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	U	U	U	U	0.0009	U	U	U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	U	U	U	U	U	U	U	U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	U	U	U	U	0.0016	U	U	0.0009
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	U	U	U	U	U	U	0.0305	U
Metals																
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	7.12	5.34	5.37	4.65	6.4	4.19	6.33	8.27
Barium	mg/kg	75	118	130000	150000	-	1300	-	52.2	38.4	49.5	41	68	41.7	39.4	54.2
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	U	U	U	U	U	U	U	U
Chromium	mg/kg	18	19	9200	240	-	30	-	11.7	12.9	11.2	12.6	12.9	11.8	12	12
Copper	mg/kg	32	32	73000	59000	-	5800	-	U	U	U	U	U	U	U	U
Lead	mg/kg	21	21	900	44000	-	700	-	3.72	6.92	U	3.8	5.61	103	7.45	8.89
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	U	U	0.03	U	U	U	U	U
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.26	U	U	U	U	0.37	U	U
Silver	mg/kg	1	1	9000	2900	-	13	-	U	U	U	U	U	U	U	U
Zinc	mg/kg	47	70	630000	-	-	5000	-	U	U	U	U	U	U	U	U
Petroleum Products																
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	U	U	U	313	360	419	U	U

APPENDIX B.1
AOI 21
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 21***	***AOI 21***	***AOI 21***	***AOI 21***
Sample Location:									***BH-21-1-00***	***BH-21-1-00***	***BH-21-2-00***	***PFB-21***
Sample ID:									***S-12636-053100-DRD-032***	***S-12636-053100-DRD-033***	***S-12636-053100-DRD-034***	***PFB-21 0-0.9***
Sample Date:									***5/31/2000***	***5/31/2000***	***5/31/2000***	***4/24/1997***
Sample Depth:									***(0-2) ft***	***(18-19) ft***	***(0.58-3) ft***	***(0-0.9) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0054 U	0.0045 U	0.0057 U	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.011 U	0.009 U	0.011 U	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0054 U	0.0045 U	0.0057 U	-
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0054 U	0.0045 U	0.0057 U	0.01 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0054 U	0.0045 U	0.0057 U	0.01 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.022 U	0.018 U	0.023 U	-
2-Chloroethyl vinyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	0.1 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.022 U	0.018 U	0.023 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.022 U	0.018 U	0.023 U	-
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.022 U	0.018 U	0.023 U	-
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0054 U	0.0045 U	0.0057 U	0.01 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0054 U	0.0045 U	0.0057 U	0.01 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0054 U	0.0045 U	0.0057 U	0.01 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.011 U	0.009 U	0.011 U	0.01 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0054 U	0.0045 U	0.0057 U	-
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0054 U	0.0045 U	0.0057 U	0.01 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0054 U	0.0045 U	0.0057 U	0.01 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.011 U	0.009 U	0.011 U	0.01 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0054 U	0.0045 U	0.0057 U	0.01 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.011 U	0.009 U	0.011 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0027 U	0.0023 U	0.0028 U	0.01 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0054 U	0.0045 U	0.0057 U	0.01 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.011 U	0.009 U	0.011 U	-
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0054 U	0.0045 U	0.0057 U	0.01 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	150000000(	1700	270	63000	0.011 U	0.009 U	0.011 U	0.01 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.0054 U	0.0045 U	0.0057 U	0.01 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0054 U	0.0045 U	0.0057 U	-
m&p-Xylene	mg/kg	-	-	-	-	-	-	-	-	-	-	0.095
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.011 U	0.009 U	0.011 U	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.011 U	0.009 U	0.011 U	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.022 U	0.018 U	0.023 U	-
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.0054 U	0.0045 U	0.0057 U	0.01 U

APPENDIX B.1
AOI 21
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 21*	*AOI 21*	*AOI 21*	*AOI 21*
Sample Location:									*BH-21-1-00*	*BH-21-1-00*	*BH-21-2-00*	*PFB-21*
Sample ID:									*S-12636-053100-DRD-032*	*S-12636-053100-DRD-033*	*S-12636-053100-DRD-034*	*PFB-21 0-0.9*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*4/24/1997*
Sample Depth:									*(0-2) ft*	*(18-19) ft*	*(0.58-3) ft*	*(0-0.9) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
o-Xylene	mg/kg	-	-	150	130000000	150	5.6	54000	-	-	-	0.21
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.0054 U	0.0045 U	0.0057 U	-
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0054 U	0.0045 U	0.0057 U	0.01 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.0054 U	0.0045 U	0.0057 U	0.01 U
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0027 U	0.0023 U	0.0028 U	0.01 U
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0054 U	0.0045 U	0.0057 U	0.01 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0054 U	0.0082	0.0057 U	0.01 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	170000000(	560	150	110000	0.011 U	0.009 U	0.011 U	0.01 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	230000000(	550	550	210000	0.0054 U	0.0045 U	0.0057 U	-
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.011 U	0.009 U	0.011 U	0.01 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.011 U	0.009 U	0.011 U	-
Semi-volatile Organic Compounds												
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.35 U	0.38 U	0.37 U	-
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.35 U	0.38 U	0.37 U	-
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.35 U	0.38 U	0.37 U	-
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.35 U	0.38 U	0.37 U	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.8 U	-
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.35 U	0.38 U	0.37 U	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.35 U	0.38 U	0.37 U	-
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.35 U	0.38 U	0.37 U	-
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.35 U	0.38 U	0.37 U	-
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.35 U	0.38 U	0.37 U	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.8 U	-
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.35 U	0.38 U	0.37 U	-
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.7 U	1.9 U	1.8 U	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.8 U	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.7 U	1.9 U	1.8 U	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.35 U	0.38 U	0.37 U	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.35 U	0.38 U	0.37 U	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.8 U	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.8 U	-
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.35 U	0.38 U	0.079 J	0.54 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.35 U	0.38 U	0.37 U	2.2 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.35 U	0.38 U	0.37 U	-
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.35 U	0.38 U	0.17 J	2 U

APPENDIX B.1
AOI 21
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*AOI 21*	*AOI 21*	*AOI 21*	*AOI 21*
Sample Location:									*BH-21-1-00*	*BH-21-1-00*	*BH-21-2-00*	*PFB-21*
Sample ID:									*S-12636-053100-DRD-032*	*S-12636-053100-DRD-033*	*S-12636-053100-DRD-034*	*PFB-21 0-0.9*
Sample Date:									*5/31/2000*	*5/31/2000*	*5/31/2000*	*4/24/1997*
Sample Depth:									*(0-2) ft*	*(18-19) ft*	*(0.58-3) ft*	*(0-0.9) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.053 U	0.058 U	0.057 U	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.33 J	0.85 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.043 J	0.38 U	0.29 J	3.4 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.064 J	0.38 U	0.4	3.6 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.046 J	0.38 U	0.15 J	1.2 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.35 U	0.38 U	0.12 J	1.6 U
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.37 U	-
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.35 U	0.38 U	0.37 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.35 U	0.38 U	0.37 U	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.35 U	0.38 U	0.37 U	-
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.35 U	0.38 U	0.37 U	-
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.35 U	0.38 U	0.1 J	-
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.043 J	0.38 U	0.32 J	23
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.35 U	0.38 U	0.37 U	2.9 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.35 U	0.38 U	0.058 J	-
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.35 U	0.38 U	0.37 U	-
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.35 U	0.38 U	0.37 U	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.35 U	0.38 U	0.37 U	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.35 U	0.38 U	0.37 U	-
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.075 J	0.38 U	0.89	1.4 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.35 U	0.38 U	0.085 J	3.3 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.35 U	0.38 U	0.37 U	-
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.35 U	0.38 U	0.37 U	-
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.35 U	0.38 U	0.37 U	-
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.12 U	0.11 U	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.35 U	0.38 U	0.17 J	3 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.35 U	0.38 U	0.37 U	-
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.35 U	0.38 U	0.37 U	0.93 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.35 U	0.38 U	0.37 U	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.35 U	0.38 U	0.37 U	-
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.35 U	0.38 U	0.37 U	-
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.35 U	0.38 U	0.37 U	-
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.35 U	0.38 U	0.77	1.1 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.35 U	0.38 U	0.37 U	-
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.068 J	0.38 U	0.68	0.87 U
Metals												
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	2910	11000	3830	-
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.21 U	0.23 U	0.23 U	-

APPENDIX B.1
AOI 21
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***AOI 21***	***AOI 21***	***AOI 21***	***AOI 21***
Sample Location:									***BH-21-1-00***	***BH-21-1-00***	***BH-21-2-00***	***PFB-21***
Sample ID:									***S-12636-053100-DRD-032***	***S-12636-053100-DRD-033***	***S-12636-053100-DRD-034***	***PFB-21 0-0.9***
Sample Date:									***5/31/2000***	***5/31/2000***	***5/31/2000***	***4/24/1997***
Sample Depth:									***(0-2) ft***	***(18-19) ft***	***(0.58-3) ft***	***(0-0.9) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***				
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	3.9	7	6.7	-
Barium	mg/kg	75	118	130000	150000	-	1300	-	18.9	66.1	25.2	-
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.14 J	0.6	0.27 J	-
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.098 J	0.14	0.16	-
Calcium	mg/kg	-	88000	-	-	-	-	-	16700	67500	37400	-
Chromium	mg/kg	18	19	9200	240	-	30	-	4.8	18	8.3	-
Chromium VI (hexavalent)	mg/kg	-	0.35	9200	240	-	30	-	0.7 U	0.7 U	0.7 U	-
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	2.5	9.6	4.1	-
Copper	mg/kg	32	32	73000	59000	-	5800	-	6	15.8	12.1	-
Iron	mg/kg	12000	27900	580000	-	-	6	-	8230	23500	9820	-
Lead	mg/kg	21	21	900	44000	-	700	-	4.5	8	10.9	-
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	4170	28900	9150	-
Manganese	mg/kg	440	513	90000	1500	-	1	-	236	294	237	-
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.0092 J	0.01 J	0.011 J	-
Nickel	mg/kg	20	26	150000	16000	-	100	-	5.9	25	10.2	-
Potassium	mg/kg	-	2300	-	-	-	-	-	260 J	2300	537	-
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.079 J	0.58 J	0.21 J	-
Silver	mg/kg	1	1	9000	2900	-	13	-	0.026 J	0.086 J	0.36	-
Sodium	mg/kg	-	580	1000000	-	-	7000	-	527 U	542 J	568 U	-
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.036 J	0.16	0.078 J	-
Vanadium	mg/kg	-	39	5500	-	-	990	-	11.4	30.2	15	-
Zinc	mg/kg	47	70	630000	-	-	5000	-	23.5	48.2	41.8	-
General Chemistry												
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	0.527 U	0.58 U	0.568 U	-
Total solids	%								94.8	86.2	88.1	87.04

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***
Sample Location:									***BH-03***	***BH-06***	***BH-07***	***BH-09***	***BH-012***
Sample ID:									***S-12636-050100-BW-003***	***S-12636-050200-BW-006***	***S-12636-050200-BW-007***	***S-12636-050200-BW-009***	***S-12636-050300-BW-012***
Sample Date:									***5/1/2000***	***5/2/2000***	***5/2/2000***	***5/2/2000***	***5/3/2000***
Sample Depth:									***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	-	-	460	29000000	460	4	4500	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,1,2,2-Tetrachloroethane	mg/kg	-	-	240	68000	23	0.7	34	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,1,2-Trichloroethane	mg/kg	-	-	840	250000	24	0.1	57	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,1-Dichloroethane	mg/kg	-	-	890	15000000	430	50	2500	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,1-Dichloroethene	mg/kg	-	-	570	78000	0.33	0.14	3.7	0.00073 J	0.0015 J	0.0029 J	0.0016 J	0.00033 J
1,2,4-Trichlorobenzene	mg/kg	-	-	1100	11000000	1100	4.2	34000	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	1.2	5900	1.2	0.01	15	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	0.43	18000	3.6	0.02	5.8	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,2-Dichlorobenzene	mg/kg	-	-	210	44000000	210	14	46000	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,2-Dichloroethane	mg/kg	-	-	420	150000	11	0.1	21	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,2-Dichloropropane	mg/kg	-	-	550	120000	7.4	0.1	30	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,3-Dichlorobenzene	mg/kg	-	-	170	-	-	0.48	-	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
1,4-Dichlorobenzene	mg/kg	-	-	1900	570000	100	1.7	260	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	27000	29000000	27000	760	35000	0.02 U	0.019 U	0.02 U	0.019 U	0.018 U
2-Hexanone	mg/kg	-	-	2500	1200000	1800	58	1300	0.02 U	0.019 U	0.02 U	0.019 U	0.018 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	2700	60000000	2700	100	53000	0.00068 J	0.00049 J	0.02 U	0.019 U	0.018 U
Acetone	mg/kg	-	-	73000	170000000	110000	42	160000	0.02 U	0.023 U	0.02 U	0.019 U	0.018 U
Benzene	mg/kg	-	-	400	470000	8.4	0.1	45	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Bromodichloromethane	mg/kg	-	-	490	110000	6.4	1.6	31	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Bromoform	mg/kg	-	-	870	3600000	770	1.6	3100	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Bromomethane (Methyl bromide)	mg/kg	-	-	1000	150000	1.6	0.58	13	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Carbon disulfide	mg/kg	-	-	280	21000000	140	46	1600	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Carbon tetrachloride	mg/kg	-	-	390	170000	0.99	0.1	12	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Chlorobenzene	mg/kg	-	-	260	2100000	220	2	920	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Chloroethane	mg/kg	-	-	950	290000000	950	34	36000	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Chloroform (Trichloromethane)	mg/kg	-	-	1500	1600000	38	1.6	150	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Chloromethane (Methyl chloride)	mg/kg	-	-	1100	2600000	10	22	120	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
cis-1,2-Dichloroethene	mg/kg	-	-	640	1000000	41	1.4	210	0.0026 U	0.0023 U	0.0024 U	0.0024 U	0.0022 U
cis-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Cyclohexane	mg/kg	-	-	-	-	-	-	-	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Dibromochloromethane	mg/kg	-	-	500	160000	21	1.6	80	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	1000	500000000	1700	270	63000	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Ethylbenzene	mg/kg	-	-	140	13000000	140	1.5	2400	0.00029 J	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Isopropyl benzene	mg/kg	-	-	390	2600000	390	260	2000	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Methyl acetate	mg/kg	-	-	-	-	-	-	-	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Methyl tert butyl ether (MTBE)	mg/kg	-	-	5900	88000000	5900	0.8	30000	0.02 U	0.019 U	0.02 U	0.019 U	0.018 U
Methylene chloride	mg/kg	-	-	2300	8300000	240	0.1	700	0.00065 J	0.0046 U	0.0005 J	0.0048 U	0.0044 U
Styrene	mg/kg	-	-	520	6900000	520	2.7	3300	0.00036 J	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Tetrachloroethene	mg/kg	-	-	88	6800000	60	0.1	600	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Toluene	mg/kg	-	-	250	12000000	250	16	3300	0.001 J	0.00043 J	0.00065 J	0.00031 J	0.00044 J
trans-1,2-Dichloroethene	mg/kg	-	-	1400	2100000	43	2	330	0.0026 U	0.0023 U	0.0024 U	0.0024 U	0.0022 U

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									*Off-Site (Van Slyke)*	*Off-Site (Van Slyke)*	*Off-Site (Van Slyke)*	*Off-Site (Van Slyke)*	*Off-Site (Van Slyke)*
Sample Location:									*BH-03*	*BH-06*	*BH-07*	*BH-09*	*BH-012*
Sample ID:									*S-12636-050100-BW-003*	*S-12636-050200-BW-006*	*S-12636-050200-BW-007*	*S-12636-050200-BW-009*	*S-12636-050300-BW-012*
Sample Date:									*5/1/2000*	*5/2/2000*	*5/2/2000*	*5/2/2000*	*5/3/2000*
Sample Depth:									*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*	*(0-2) ft*
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
trans-1,3-Dichloropropene	mg/kg	-	-	-	-	-	-	-	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Trichloroethene	mg/kg	-	-	500	2300000	37	0.1	260	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	560	170000000(	560	150	110000	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	550	230000000(	550	550	210000	0.0051 U	0.0046 U	0.0049 U	0.0048 U	0.0044 U
Vinyl chloride	mg/kg	-	-	34	890000	2.8	0.04	29	0.01 U	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Xylene (total)	mg/kg	-	-	150	130000000	150	5.6	54000	0.0011 J	0.0093 U	0.0098 U	0.0096 U	0.0088 U
Semi-volatile Organic Compounds													
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,4,5-Trichlorophenol	mg/kg	-	-	73000	10000000	-	110	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	-	-	3300	1300000	-	9.4	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,4-Dichlorophenol	mg/kg	-	-	1800	2300000	-	4.2	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,4-Dimethylphenol	mg/kg	-	-	36000	2100000	-	20	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
2,4-Dinitrotoluene	mg/kg	-	-	220	20000	-	0.64	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2-Chloronaphthalene	mg/kg	-	-	180000	-	-	1800	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2-Chlorophenol	mg/kg	-	-	4500	-	-	2.6	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2-Methylnaphthalene	mg/kg	-	-	26000	-	-	170	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
2-Nitrophenol	mg/kg	-	-	2000	-	-	1.2	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	-	-	30	8200	-	2	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
4,6-Dinitro-2-methylphenol	mg/kg	-	-	260	-	-	0.83	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	-	-	15000	-	-	16	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
4-Methylphenol	mg/kg	-	-	36000	2900000	-	20	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	1.7 U	1.9 U	1.9 U	1.9 U	1.7 U
Acenaphthene	mg/kg	-	-	130000	6200000	350000	880	97000	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Acenaphthylene	mg/kg	-	-	5200	1000000	3000	17	2700	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Acetophenone	mg/kg	-	-	1100	14000000	1100	88	52000	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Anthracene	mg/kg	-	-	730000	29000000	1000000	41	1600000	0.043 J	0.38 U	0.4 U	0.38 U	0.36 U
Atrazine	mg/kg	-	-	330	-	-	0.06	-	0.054 U	0.058 U	0.06 U	0.058 U	0.054 U
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Benzo(a)anthracene	mg/kg	-	-	80	-	-	-	-	0.12 J	0.38 U	0.4 U	0.38 U	0.36 U
Benzo(a)pyrene	mg/kg	-	-	8	1900	-	-	-	0.14 J	0.38 U	0.4 U	0.38 U	0.36 U
Benzo(b)fluoranthene	mg/kg	-	-	80	-	-	-	-	0.2 J	0.38 U	0.4 U	0.38 U	0.36 U
Benzo(g,h,i)perylene	mg/kg	-	-	7000	350000	-	-	-	0.11 J	0.38 U	0.4 U	0.38 U	0.36 U
Benzo(k)fluoranthene	mg/kg	-	-	800	-	-	-	-	0.074 J	0.38 U	0.4 U	0.38 U	0.36 U

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***
Sample Location:									***BH-03***	***BH-06***	***BH-07***	***BH-09***	***BH-012***
Sample ID:									***S-12636-050100-BW-003***	***S-12636-050200-BW-006***	***S-12636-050200-BW-007***	***S-12636-050200-BW-009***	***S-12636-050300-BW-012***
Sample Date:									***5/1/2000***	***5/2/2000***	***5/2/2000***	***5/2/2000***	***5/3/2000***
Sample Depth:									***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
bis(2-Chloroethyl)ether	mg/kg	-	-	58	12000	44	0.17	13	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	10000	890000	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Butyl benzylphthalate (BBP)	mg/kg	-	-	310	21000000	-	310	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Caprolactam	mg/kg	-	-	310000	290000	-	340	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Carbazole	mg/kg	-	-	2400	-	-	39	-	0.053 J	0.38 U	0.4 U	0.38 U	0.36 U
Chrysene	mg/kg	-	-	8000	-	-	-	-	0.19 J	0.38 U	0.4 U	0.38 U	0.36 U
Dibenz(a,h)anthracene	mg/kg	-	-	8	-	-	-	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	0.053 J	0.38 U	0.4 U	0.38 U	0.36 U
Diethyl phthalate	mg/kg	-	-	740	1500000	-	320	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Dimethyl phthalate	mg/kg	-	-	790	1500000	-	790	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Di-n-butylphthalate (DBP)	mg/kg	-	-	760	1500000	-	760	-	0.6	0.38 U	0.4 U	0.38 U	0.36 U
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	20000	-	-	140000	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Fluoranthene	mg/kg	-	-	130000	4100000	1000000	730	890000	0.47	0.38 U	0.4 U	0.38 U	0.36 U
Fluorene	mg/kg	-	-	87000	4100000	1000000	890	150000	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Hexachlorobenzene	mg/kg	-	-	37	8500	220	1.8	56	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Hexachlorobutadiene	mg/kg	-	-	350	180000	350	72	460	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Hexachlorocyclopentadiene	mg/kg	-	-	720	5900	56	320	60	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Hexachloroethane	mg/kg	-	-	730	100000	79	1.2	660	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	80	-	-	-	-	0.11 J	0.38 U	0.4 U	0.38 U	0.36 U
Isophorone	mg/kg	-	-	2400	8200000	-	62	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Naphthalene	mg/kg	-	-	52000	88000	470	100	350	0.095 J	0.38 U	0.4 U	0.38 U	0.36 U
Nitrobenzene	mg/kg	-	-	340	21000	170	0.33	64	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
N-Nitrosodi-n-propylamine	mg/kg	-	-	5.4	2000	-	0.33	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
N-Nitrosodiphenylamine	mg/kg	-	-	7800	-	-	22	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Pentachlorophenol	mg/kg	-	-	320	130000	-	0.022	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Phenanthrene	mg/kg	-	-	5200	2900	5100	160	190	0.5	0.38 U	0.4 U	0.38 U	0.36 U
Phenol	mg/kg	-	-	12000	18000000	-	260	-	0.36 U	0.38 U	0.4 U	0.38 U	0.36 U
Pyrene	mg/kg	-	-	84000	2900000	1000000	480	780000	0.38	0.38 U	0.4 U	0.38 U	0.36 U
Metals													
Aluminum	mg/kg	6900	15100	370000	-	-	1	-	3910	8670	7720	9730	7020
Antimony	mg/kg	-	-	670	5900	-	4.3	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Arsenic	mg/kg	5.8	13.5	37	910	-	4.6	-	11.1 J	2.5 J	9.0 J	8.5 J	3.8 J
Barium	mg/kg	75	118	130000	150000	-	1300	-	23.1 J	51.9 J	50.0 J	70.3 J	56.4 J
Beryllium	mg/kg	-	0.726	1600	590	-	51	-	0.14	0.32	0.39	0.47	0.30
Cadmium	mg/kg	1.2	1.2	2100	2200	-	6	-	0.10	0.063 J	0.073 J	0.11	0.092 J
Calcium	mg/kg	-	88000	-	-	-	-	-	68500	39200	2960	25800	63300
Chromium	mg/kg	18	19	9200	240	-	30	-	4.9	10.2	12.3	12.0	9.4
Cobalt	mg/kg	6.8	11.5	9000	5900	-	2	-	2.6	4.5	6.6	6.8	5.3
Copper	mg/kg	32	32	73000	59000	-	5800	-	6.9	7.6	13.6	13.4	9.1
Iron	mg/kg	12000	27900	580000	-	-	6	-	9300	19100	15700	18800	14500

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:									***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***	***Off-Site (Van Slyke)***
Sample Location:									***BH-03***	***BH-06***	***BH-07***	***BH-09***	***BH-012***
Sample ID:									***S-12636-050100-BW-003***	***S-12636-050200-BW-006***	***S-12636-050200-BW-007***	***S-12636-050200-BW-009***	***S-12636-050300-BW-012***
Sample Date:									***5/1/2000***	***5/2/2000***	***5/2/2000***	***5/2/2000***	***5/3/2000***
Sample Depth:									***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***	***(0-2) ft***
Parameters:	***Units***	***Statewide***	***a***	***b***	***c***	***d***	***e***	***f***					
Lead	mg/kg	21	21	900	44000	-	700	-	5.3	5.1	7.9	8.2	5.9
Magnesium	mg/kg	-	35000	1000000	2900000	-	22000	-	7210 J	18500 J	3490 J	17700 J	20400 J
Manganese	mg/kg	440	513	90000	1500	-	1	-	244	269	530[e]	1080[e]	483
Mercury	mg/kg	0.13	0.13	580	8800	89	1.7	62	0.033 U	0.033 U	0.0090 J	0.0088 J	0.033 U
Nickel	mg/kg	20	26	150000	16000	-	100	-	7.9	12.0	18.4	17.0	12.3
Potassium	mg/kg	-	2300	-	-	-	-	-	491 J	1020 J	1210 J	1280 J	1290 J
Selenium	mg/kg	0.41	0.44	9600	59000	-	4	-	0.17 J	0.083 J	0.21 J	0.14 J	0.18 J
Silver	mg/kg	1	1	9000	2900	-	13	-	0.048 J	0.043 J	0.051 J	0.045 J	0.044 J
Sodium	mg/kg	-	580	1000000	-	-	7000	-	603	157 J	171 J	173 J	500 U
Thallium	mg/kg	-	0.204	130	-	-	2.3	-	0.063 J	0.070 J	0.12	0.082 J	0.074 J
Vanadium	mg/kg	-	39	5500	-	-	990	-	12.4 J	24.6 J	19.1 J	24.1 J	17.9 J
Zinc	mg/kg	47	70	630000	-	-	5000	-	26.6	31.5	44.1	40.2	29.8
Polychlorinated Biphenyls													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	0.036 U	0.038 U	0.04 U	0.038 U	0.036 U
Pesticides													
Aroclor-1016 (PCB-1016)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Total PCBs	mg/kg	-	-	16	6500	16000	-	810	-	-	-	-	-
Petroleum Products													
Diesel fuel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	0.39	-	250	250	-	4	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	92.7	86.1	83.1	85.8	92.9

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*
Sample Location:		*GP-7*	*HD-1*	*MW-12*	*MW-12*	*SPL*	*WWB*	*WWB*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample ID:		*GP-7*	*HD-1*	*MW-12 (10-12)*	*MW-12 (10-12)*	*SPL*	*WWB (0.75-2.75)*	*WWB (0.75-2.75)*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample Date:		*8/30/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/5/1996*	*11/5/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(10-12) ft*	*-*	*(10-12) ft*	*(10-12) ft (other)*	*-*	*(0.75-2.75) ft*	*(0.75-2.75) ft (other)*	*-*	*-*	*-*	*-*
Parameters:	***Units***											
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	0.00157
1,1,2,2-Tetrachloroethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	0.036
1,1-Dichloroethene	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	0.00097
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	-	-	-	0.1 U	-	-	-	-	-	-	-
2-Hexanone	mg/kg	-	-	-	0.1 U	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	-	-	-	0.1 U	-	-	-	-	-	-	-
Acetone	mg/kg	-	-	-	0.1 U	-	-	-	-	-	-	-
Benzene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Bromoform	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	-	-	-	0.1 U	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Chloroethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	mg/kg	-	-	U	0.01 U	U	-	-	U	0.0011	U	U
Chloromethane (Methyl chloride)	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Cyclohexane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	U
Isopropyl benzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	mg/kg	-	-	U	0.01 U	0.055	-	-	U	U	U	U
Styrene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	-	-	U	0.01 U	U	-	-	U	0.0035	0.0017	0.0021
Toluene	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	U
trans-1,2-Dichloroethene	mg/kg	-	-	U	0.01 U	U	-	-	U	U	U	U

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*
Sample Location:		*GP-7*	*HD-1*	*MW-12*	*MW-12*	*SPL*	*WWB*	*WWB*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample ID:		*GP-7*	*HD-1*	*MW-12 (10-12)*	*MW-12 (10-12)*	*SPL*	*WWB (0.75-2.75)*	*WWB (0.75-2.75)*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample Date:		*8/30/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/5/1996*	*11/5/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(10-12) ft*	*-*	*(10-12) ft*	*(10-12) ft (other)*	*-*	*(0.75-2.75) ft*	*(0.75-2.75) ft (other)*	*-*	*-*	*-*	*-*
Parameters:	***Units***											
trans-1,3-Dichloropropene	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Trichloroethene	mg/kg	-	-	U	0.01 U	U	-	-	U	U	0.139[e]	U
Trichlorofluoromethane (CFC-11)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	-	-	-	0.01 U	-	-	-	-	-	-	-
Xylene (total)	mg/kg	-	-	U	0.03 U	U	-	-	U	U	U	U
Semi-volatile Organic Compounds												
2,2'-Oxybis(2-chloropropane)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Acenaphthylene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Acetophenone	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Atrazine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*
Sample Location:		*GP-7*	*HD-1*	*MW-12*	*MW-12*	*SPL*	*WWB*	*WWB*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample ID:		*GP-7*	*HD-1*	*MW-12 (10-12)*	*MW-12 (10-12)*	*SPL*	*WWB (0.75-2.75)*	*WWB (0.75-2.75)*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample Date:		*8/30/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/5/1996*	*11/5/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(10-12) ft*	*-*	*(10-12) ft*	*(10-12) ft (other)*	*-*	*(0.75-2.75) ft*	*(0.75-2.75) ft (other)*	*-*	*-*	*-*	*-*
Parameters:	***Units***											
Biphenyl (1,1-Biphenyl)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Carbazole	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Fluorene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Isophorone	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Phenol	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Metals												
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	7.8	3.63	6.88	5.7	6.03	-	-	5.37	6.16	6.53	6.95
Barium	mg/kg	86	20.1	54.9	58	60.6	-	-	66.6	45.2	56	44.4
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	0.16	U	U	0.092	U	-	-	U	U	U	U
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	9.5	25.2	11.3	8.3	13.9	-	-	19.8	20.9	14.5	13.4
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	13	U	U	22	U	-	-	U	U	U	U
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-

APPENDIX B.1
OTHER LOCATIONS
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

AOI:		*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*Peregrine Transfer*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*	*WWTP*
Sample Location:		*GP-7*	*HD-1*	*MW-12*	*MW-12*	*SPL*	*WWB*	*WWB*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample ID:		*GP-7*	*HD-1*	*MW-12 (10-12)*	*MW-12 (10-12)*	*SPL*	*WWB (0.75-2.75)*	*WWB (0.75-2.75)*	*WWT-1*	*WWT-2*	*WWT-3*	*WWT-4*
Sample Date:		*8/30/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/5/1996*	*11/5/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*	*11/6/1996*
Sample Depth:		*(10-12) ft*	*-*	*(10-12) ft*	*(10-12) ft (other)*	*-*	*(0.75-2.75) ft*	*(0.75-2.75) ft (other)*	*-*	*-*	*-*	*-*
Parameters:	***Units***											
Lead	mg/kg	7.5	175	6.38	13	6.04	-	-	6.4	U	4.1	U
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	0.1 U	U	U	0.1 U	U	-	-	U	U	U	U
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.68	U	0.3	0.59	U	-	-	U	U	U	U
Silver	mg/kg	0.5 U	U	U	0.5 U	U	-	-	U	U	U	U
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	39	U	U	26	U	-	-	U	U	U	U
Polychlorinated Biphenyls												
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
Aroclor-1016 (PCB-1016)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1221 (PCB-1221)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1232 (PCB-1232)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1242 (PCB-1242)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1248 (PCB-1248)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1254 (PCB-1254)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Aroclor-1260 (PCB-1260)	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Total PCBs	mg/kg	-	-	-	-	-	-	0.33 U	-	-	-	-
Petroleum Products												
Diesel fuel	mg/kg	6.6 U	-	-	-	-	-	-	-	-	-	-
Petroleum hydrocarbons	mg/kg	-	978	U	40 U	-	U	-	-	-	-	-
General Chemistry												
Cyanide (total)	mg/kg	-	-	88.3[e]	-	-	-	-	U	U	U	U
Total solids	%	-	-	-	89.0	-	-	87.1	-	-	-	-

APPENDIX B.1
NOTES
ANALYTICAL RESULTS SUMMARY
FORMER PEREGRINE (US) INC. COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
UJ - Estimated reporting limit.
B - For organics Method blank contamination / For Inorganics = Estimated Value
a - Background Levels (Background[A])
b - Industrial Direct Contact Criteria (IDCC[B])
c - Particulate Soil Inhalation Criteria (PSIC[C])
d - Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC[D])
e - Industrial Drinking Water Protection Criteria (IDWPC[E])
f - Infinite Source Soil Inhalation Criteria (ISSIC[F])
Value exceeds criteria identified in superscript

APPENDIX B-2

GROUNDWATER ANALYTICAL RESULTS

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:					*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 2*	*AOI 2*	*AOI 2*
Sample Location:					*DSA_MW-01*	*DSA_MW-01*	*MW-14*	*MW-14*	*PFW-6*	*MW-13*	*MW-13*	*MW-13*
Sample ID:					*UNKNOWN*	*UNKNOWN*	*MW-14*	*W-8692-111496-BM-006*	*PFW-6*	*MW-13*	*W-111496-BM-009*	*W-12636-060700-KMV-504*
Sample Date:					*7/23/2002*	*7/23/2002*	*11/14/1996*	*11/14/1996*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*
Well Status:					*Excavated*	*Excavated (Duplicate)*	*Excavated*	*Excavated (other)*	*Excavated*	*Abandoned*	*Abandoned (other)*	*Abandoned*
			Criteria									
Parameters:	*Units*	*a*	*b*	*c*								
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	mg/L	30	0.32	96	0.001 U	0.001 U	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	1300	0.2	1300	0.001 U	0.001 U	U	0.001 U	0.009	0.0007	-	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	4.7	0.035	77	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	21	0.005	110	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,1-Dichloroethane	mg/L	2400	2.5	2300	0.013	0.013	U	0.001 U	0.004	U	-	0.00078 J
1,1-Dichloroethene	mg/L	11	0.007	1.3	0.003	0.003	-	0.001 U	0.001 U	-	-	0.001 U
1,1-Dichloropropene	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	84	0.12	-	0.001 U	0.001 U	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	0.001 U	0.001 U	-	-	-	-	-	0.001 U
1,2,4-Trimethylbenzene	mg/L	56	0.063	56	0.001 U	0.001 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.39	0.0002	1.2	0.001 U	0.001 U	-	-	-	-	-	0.001 U
1,2-Dibromoethane (Ethylene dibromide)	mg/L	0.025	0.00005	15	0.001 U	0.001 U	-	-	-	-	-	0.001 U
1,2-Dichlorobenzene	mg/L	160	0.6	160	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,2-Dichloroethane	mg/L	19	0.005	59	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,2-Dichloropropane	mg/L	16	0.005	36	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,3,5-Trimethylbenzene	mg/L	61	0.072	61	0.001 U	0.001 U	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	2	0.019	-	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
1,4-Dichlorobenzene	mg/L	6.4	0.075	74	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
2,2-Dichloropropane	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	240000	38	240000	0.05 U	0.05 U	-	0.05 U	-	-	-	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	-	-	-	-	0.01 U	-	-	-
2-Chlorotoluene	mg/L	44	0.42	370	0.001 U	0.001 U	-	-	-	-	-	-
2-Hexanone	mg/L	5200	2.9	8700	-	-	-	0.05 U	-	-	-	0.01 U
2-Phenylbutane (sec-Butylbenzene)	mg/L	4.4	0.23	-	0.001 U	0.001 U	-	-	-	-	-	-
4-Chlorotoluene	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	13000	5.2	20000	-	-	-	0.05 U	-	-	-	0.01 U
Acetone	mg/L	31000	2.1	1000000	-	-	-	0.1 U	-	-	-	0.01 U
Benzene	mg/L	11	0.005	35	0.001 U	0.001 U	-	0.005 U	0.005 U	-	-	0.000076 J
Bromobenzene	mg/L	12	0.05	390	0.001 U	0.001 U	-	-	-	-	-	-
Bromodichloromethane	mg/L	14	0.08	37	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Bromoform	mg/L	140	0.08	3100	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Bromomethane (Methyl bromide)	mg/L	70	0.029	9	0.001 U	0.001 U	U	0.001 U	0.001 U	0.0067	-	0.001 U
Carbon disulfide	mg/L	1200	2.3	550	-	-	-	0.05 U	-	-	-	0.001 U
Carbon tetrachloride	mg/L	4.6	0.005	2.4	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Chlorobenzene	mg/L	86	0.1	470	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Chlorobromomethane	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
Chloroethane	mg/L	440	1.7	5700	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.002 U
Chloroform (Trichloromethane)	mg/L	150	0.08	180	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Chloromethane (Methyl chloride)	mg/L	490	1.1	45	0.001 U	0.001 U	U	0.001 U	0.001 U	U	-	0.002 U
cis-1,2-Dichloroethene	mg/L	200	0.07	210	0.65[b]	0.8[b]	-	0.004	0.001 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
Cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:					*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 2*	*AOI 2*	*AOI 2*
Sample Location:					*DSA_MW-01*	*DSA_MW-01*	*MW-14*	*MW-14*	*PFW-6*	*MW-13*	*MW-13*	*MW-13*
Sample ID:					*UNKNOWN*	*UNKNOWN*	*MW-14*	*W-8692-111496-BM-006*	*PFW-6*	*MW-13*	*W-111496-BM-009*	*W-12636-060700-KMV-504*
Sample Date:					*7/23/2002*	*7/23/2002*	*11/14/1996*	*11/14/1996*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*
Well Status:					*Excavated*	*Excavated*	*Excavated*	*Excavated*	*Excavated*	*Abandoned*	*Abandoned*	*Abandoned*
			Criteria			*(Duplicate)*		*(other)*			*(other)*	
Parameters:	*Units*	*a*	*b*	*c*								
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	0.001 U	0.001 U	-	-	-	-	-	-
Dibromochloromethane	mg/L	18	0.08	110	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Dibromomethane	mg/L	530	0.23	-	0.001 U	0.001 U	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	300	4.8	300	0.001 U	0.001 U	-	-	0.001 U	-	-	0.001 U
Ethylbenzene	mg/L	170	0.074	170	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Isopropyl benzene	mg/L	56	2.3	56	0.001 U	0.001 U	-	-	-	-	-	0.001 U
m&p-Xylene	mg/L	-	-	-	0.001 U	0.001 U	-	-	0.003 U	-	-	-
Methyl acetate	mg/L	-	-	-	-	-	-	-	-	-	-	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-	-	-	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	610	0.04	47000	-	-	-	-	-	-	-	0.005 U
Methylene chloride	mg/L	220	0.005	1400	0.005 U	0.005 U	-	0.005 U	0.005 U	-	-	0.001 U
Naphthalene	mg/L	31	1.5	31	0.001 U	0.001 U	-	-	-	-	-	-
N-Butylbenzene	mg/L	5.9	0.23	-	0.001 U	0.001 U	-	-	-	-	-	-
N-Propylbenzene	mg/L	15	0.23	-	0.001 U	0.001 U	-	-	-	-	-	-
o-Xylene	mg/L	190	0.28	190	0.001 U	0.001 U	-	-	0.003 U	-	-	-
Styrene	mg/L	9.7	0.1	310	0.001 U	0.001 U	-	0.001 U	-	-	-	0.001 U
tert-Butylbenzene	mg/L	8.9	0.23	-	0.001 U	0.001 U	-	-	-	-	-	-
Tetrachloroethene	mg/L	12	0.005	170	0.001 U	0.001 U	0.0011	0.001 U	0.001 U	U	-	0.001 U
Toluene	mg/L	530	0.79	530	0.001 U	0.001 U	0.0013	0.001 U	0.001 U	0.0011	-	0.00006 J
trans-1,2-Dichloroethene	mg/L	220	0.1	200	0.018	0.019	U	0.001 U	0.001 U	U	-	0.0005 U
trans-1,3-Dichloropropene	mg/L	-	-	-	-	-	-	0.001 U	0.001 U	-	-	0.001 U
Trichloroethene	mg/L	22	0.005	97	**1.42 J[b]**	**1.83[b]**	**0.0213[b]**	**0.006[b]**	0.001 U	**0.0084[b]**	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	1100	7.3	1100	0.001 U	0.001 U	-	-	0.001 U	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	170	170	170	-	-	-	-	-	-	-	0.001 U
Vinyl chloride	mg/L	1	0.002	13	0.001 U	0.001 U	-	0.001 U	0.001 U	-	-	0.001 U
Xylene (total)	mg/L	190	0.28	190	-	-	-	0.003 U	-	-	-	0.001 U
Semi-volatile Organic Compounds												
1,2,4-Trichlorobenzene	mg/L	19	0.07	300	-	-	-	-	-	-	-	-
2,2'-Oxybis(2-chloropropane)	mg/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/L	170	2.1	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/L	10	0.47	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/L	48	0.21	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/L	520	1	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/L	8.6	0.032	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/L	6.7	5.2	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/L	94	0.13	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/L	25	0.75	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/L	810	1	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	79	0.058	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	0.18	0.0043	-	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:					*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 2*	*AOI 2*	*AOI 2*
Sample Location:					*DSA_MW-01*	*DSA_MW-01*	*MW-14*	*MW-14*	*PFW-6*	*MW-13*	*MW-13*	*MW-13*
Sample ID:					*UNKNOWN*	*UNKNOWN*	*MW-14*	*W-8692-111496-BM-006*	*PFW-6*	*MW-13*	*W-111496-BM-009*	*W-12636-060700-KMV-504*
Sample Date:					*7/23/2002*	*7/23/2002*	*11/14/1996*	*11/14/1996*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*
Well Status:					*Excavated*	*Excavated*	*Excavated*	*Excavated*	*Excavated*	*Abandoned*	*Abandoned*	*Abandoned*
			Criteria			*(Duplicate)*		*(other)*			*(other)*	
Parameters:	*Units*	*a*	*b*	*c*								
3-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/L	9.5	0.02	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/L	79	0.42	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/L	810	1	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/L	4.2	3.8	4.2	-	-	-	-	-	-	-	-
Acenaphthylene	mg/L	3.9	0.15	3.9	-	-	-	-	-	-	-	-
Anthracene	mg/L	0.043	0.043	0.043	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/L	0.0094	0.0085	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/L	0.001	0.005	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/L	0.0015	0.0015	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/L	0.001	0.001	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/L	0.001	0.001	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/L	5.7	0.0083	210	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.32	0.006	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/L	2.7	2.7	-	-	-	-	-	-	-	-	-
Carbazole	mg/L	7.4	0.35	-	-	-	-	-	-	-	-	-
Chrysene	mg/L	0.0016	0.0016	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/L	0.002	0.002	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/L	1100	16	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/L	4200	210	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/L	11	2.5	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	0.4	0.38	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	0.21	0.21	0.21	-	-	-	-	-	-	-	-
Fluorene	mg/L	2	2	2	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/L	0.0046	0.001	3	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/L	0.4	0.042	3.2	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/L	1.6	0.05	0.42	-	-	-	-	-	-	-	-
Hexachloroethane	mg/L	1.9	0.021	50	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/L	0.002	0.002	-	-	-	-	-	-	-	-	-
Isophorone	mg/L	990	3.1	-	-	-	-	-	-	-	-	-
Naphthalene	mg/L	31	1.5	31	-	-	-	-	-	-	-	-
Nitrobenzene	mg/L	11	0.0096	550	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	0.36	0.005	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	35	1.1	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	0.2	0.001	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	1	0.15	1	-	-	-	-	-	-	-	-
Phenol	mg/L	29000	13	-	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:					*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 1*	*AOI 2*	*AOI 2*	*AOI 2*
Sample Location:					*DSA_MW-01*	*DSA_MW-01*	*MW-14*	*MW-14*	*PFW-6*	*MW-13*	*MW-13*	*MW-13*
Sample ID:					*UNKNOWN*	*UNKNOWN*	*MW-14*	*W-8692-111496-BM-006*	*PFW-6*	*MW-13*	*W-111496-BM-009*	*W-12636-060700-KMV-504*
Sample Date:					*7/23/2002*	*7/23/2002*	*11/14/1996*	*11/14/1996*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*
Well Status:					*Excavated*	*Excavated (Duplicate)*	*Excavated*	*Excavated (other)*	*Excavated*	*Abandoned*	*Abandoned (other)*	*Abandoned*
Parameters:	*Units*	*Criteria a*	*Criteria b*	*Criteria c*								
Pyrene	mg/L	0.14	0.14	0.14	-	-	-	-	-	-	-	-
Metals												
Arsenic	mg/L	4.3	0.01	-	-	-	-	-	0.005 U	-	-	-
Arsenic (dissolved)	mg/L	4.3	0.01	-	-	-	-	-	-	-	-	-
Barium	mg/L	14000	2	-	-	-	-	-	1.3	-	-	-
Barium (dissolved)	mg/L	14000	2	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	190	0.005	-	-	-	-	-	0.0005 U	-	-	-
Cadmium (dissolved)	mg/L	190	0.005	-	-	-	-	-	-	-	-	-
Chromium	mg/L	460	0.1	-	-	-	-	-	0.05 U	-	-	-
Chromium Total (dissolved)	mg/L	460	0.1	-	-	-	-	-	-	-	-	-
Copper	mg/L	7400	1	-	-	-	-	-	0.025 U	-	-	-
Copper (dissolved)	mg/L	7400	1	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	0.004	-	-	-	-	-	0.003 U	-	-	-
Lead (dissolved)	mg/L	-	0.004	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.056	0.002	0.056	-	-	-	-	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	0.056	0.002	0.056	-	-	-	-	-	-	-	-
Selenium	mg/L	970	0.05	-	-	-	-	-	0.005 U	-	-	-
Selenium (dissolved)	mg/L	970	0.05	-	-	-	-	-	-	-	-	-
Silver	mg/L	1500	0.098	-	-	-	-	-	0.0005 U	-	-	-
Silver (dissolved)	mg/L	1500	0.098	-	-	-	-	-	-	-	-	-
Zinc	mg/L	110000	5	-	-	-	-	-	0.02 U	-	-	-
Zinc (dissolved)	mg/L	110000	5	-	-	-	-	-	-	-	-	-
Pesticides												
Aroclor-1016 (PCB-1016)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Aroclor-1221 (PCB-1221)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Aroclor-1232 (PCB-1232)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0004 U	-
Aroclor-1242 (PCB-1242)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Aroclor-1248 (PCB-1248)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Aroclor-1254 (PCB-1254)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Aroclor-1260 (PCB-1260)	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	-	0.0002 U	-
Total PCBs	mg/L	0.0033	0.0005	0.045	-	-	-	-	-	U	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 2*	*AOI 3*	*AOI 7*	*AOI 7*	*AOI 9*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:		*MW-13*	*PFW-11*	*PFW-10*	*PFW-10*	*PFW-12*	*MW-1*	*MW-1*	*MW-2*	*MW-2*	*PFW-2*
Sample ID:		*W-12636-060700-KMV-505*	*PFW-11*	*PFW-10*	*GW-12636-101702-DD-006*	*PFW-12*	*MW-1*	*W-111496-BM-008*	*MW-2*	*W-8692-111496-SF-011*	*PFW-2*
Sample Date:		*6/7/2000*	*4/1/1997*	*3/31/1997*	*10/17/2002*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*4/1/1997*
Well Status:		*Abandoned (Duplicate)*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing (other)*	*Existing*	*Existing (other)*	*Existing*
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	U	0.001 U	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	0.00097 J	0.001 U	0.001 U	-	0.001 U	0.001	0.001 U	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
1,1-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	0.001 U	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	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	-	-	-	-	-	-	-	-	-	-
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
2,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	0.01 U	-	-	-	-	-	0.05 U	-	0.05 U	-
2-Chloroethyl vinyl ether	mg/L	-	0.01 U	0.01 U	-	0.01 U	-	-	-	-	0.01 U
2-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	0.01 U	-	-	-	-	-	0.05 U	-	0.05 U	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	0.01 U	-	-	-	-	-	0.05 U	-	0.05 U	-
Acetone	mg/L	0.01 U	-	-	-	-	-	0.1 U	-	0.1 U	-
Benzene	mg/L	0.000089 J	0.005 U	0.005 U	-	0.005 U	-	0.005 U	-	0.005 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 U	0.001 U	-	0.001 U	U	0.001 U	U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.001 U	-	-	-	-	-	0.05 U	-	0.05 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	0.002 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	0.002 U	0.001 U	0.001 U	-	0.001 U	U	0.001 U	U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.0005 U	0.001 U	0.001 U	-	0.001 U	-	0.005	-	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	-	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 2*	*AOI 3*	*AOI 7*	*AOI 7*	*AOI 9*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:		*MW-13*	*PFW-11*	*PFW-10*	*PFW-10*	*PFW-12*	*MW-1*	*MW-1*	*MW-2*	*MW-2*	*PFW-2*
Sample ID:		*W-12636-060700-KMV-505*	*PFW-11*	*PFW-10*	*GW-12636-101702-DD-006*	*PFW-12*	*MW-1*	*W-111496-BM-008*	*MW-2*	*W-8692-111496-SF-011*	*PFW-2*
Sample Date:		*6/7/2000*	*4/1/1997*	*3/31/1997*	*10/17/2002*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*4/1/1997*
Well Status:		*Abandoned (Duplicate)*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing (other)*	*Existing*	*Existing (other)*	*Existing*
Parameters:	***Units***										
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	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	-	-	-	-	0.001 U
Ethylbenzene	mg/L	0.001 U	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	-	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	0.003 U	0.003 U	-	0.003 U	-	-	-	-	0.003 U
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	0.001 U	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	-	0.003 U	-	-	-	-	0.003 U
Styrene	mg/L	0.001 U	-	-	-	-	-	0.001 U	-	0.001 U	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	U	0.001 U	0.0005	0.001 U	0.001 U
Toluene	mg/L	0.00006 J	0.001 U	0.001 U	-	0.001 U	0.0006	0.001 U	0.0007	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.0005 U	0.001 U	0.001 U	-	0.001 U	0.0017	0.001 U	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
Trichloroethene	mg/L	0.001 U	0.001 U	0.001 U	-	0.001 U	0.0048	0.001 U	0.0044	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
Trifluorotrichloroethane (Freon 113)	mg/L	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
Xylene (total)	mg/L	0.001 U	-	-	-	-	-	0.003 U	-	0.003 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	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	0.02 U	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	0.0018	0.005 U	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-	0.02 U	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 2*	*AOI 3*	*AOI 7*	*AOI 7*	*AOI 9*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:		*MW-13*	*PFW-11*	*PFW-10*	*PFW-10*	*PFW-12*	*MW-1*	*MW-1*	*MW-2*	*MW-2*	*PFW-2*
Sample ID:		*W-12636-060700-KMV-505*	*PFW-11*	*PFW-10*	*GW-12636-101702-DD-006*	*PFW-12*	*MW-1*	*W-111496-BM-008*	*MW-2*	*W-8692-111496-SF-011*	*PFW-2*
Sample Date:		*6/7/2000*	*4/1/1997*	*3/31/1997*	*10/17/2002*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*4/1/1997*
Well Status:		*Abandoned (Duplicate)*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing (other)*	*Existing*	*Existing (other)*	*Existing*
Parameters:	*Units*										
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	0.005 U
Acenaphthylene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Anthracene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Benzo(a)anthracene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Benzo(a)pyrene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Benzo(b)fluoranthene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Benzo(g,h,i)perylene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Benzo(k)fluoranthene	mg/L	-	-	-	-	-	-	-	-	0.005 U	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	0.005 U
Dibenz(a,h)anthracene	mg/L	-	-	-	-	-	-	-	-	0.005 U	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	0.005 U
Fluorene	mg/L	-	-	-	-	-	-	-	0.00014	0.005 U	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	0.005 U
Isophorone	mg/L	-	-	-	-	-	-	-	-	0.005 U	-
Naphthalene	mg/L	-	-	-	-	-	-	-	0.00017	0.005 U	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	0.005 U
Phenol	mg/L	-	-	-	-	-	-	-	-	0.005 U	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 2*	*AOI 3*	*AOI 7*	*AOI 7*	*AOI 9*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*
Sample Location:		*MW-13*	*PFW-11*	*PFW-10*	*PFW-10*	*PFW-12*	*MW-1*	*MW-1*	*MW-2*	*MW-2*	*PFW-2*
Sample ID:		*W-12636-060700-KMV-505*	*PFW-11*	*PFW-10*	*GW-12636-101702-DD-006*	*PFW-12*	*MW-1*	*W-111496-BM-008*	*MW-2*	*W-8692-111496-SF-011*	*PFW-2*
Sample Date:		*6/7/2000*	*4/1/1997*	*3/31/1997*	*10/17/2002*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*11/14/1996*	*4/1/1997*
Well Status:		*Abandoned (Duplicate)*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing*	*Existing (other)*	*Existing*	*Existing (other)*	*Existing*
Parameters:	***Units***										
Pyrene	mg/L	-	-	-	-	-	-	-	-	0.005 U	0.005 U
Metals											
Arsenic	mg/L	-	0.005 U	0.005 U	-	0.005 U	U	-	U	-	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.005 U	-
Barium	mg/L	-	1.1	2.6[e]	-	1.2	U	-	0.54	-	0.61
Barium (dissolved)	mg/L	-	-	-	0.0565	-	-	-	-	0.2 U	-
Cadmium	mg/L	-	0.0006	0.0005 U	-	0.0005 U	-	-	-	-	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0005 U	-
Chromium	mg/L	-	0.05 U	0.05 U	-	0.05 U	-	-	-	-	0.05 U
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.05 U	-
Copper	mg/L	-	0.025 U	0.025 U	-	0.025 U	U	-	U	-	0.025 U
Copper (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.025 U	-
Lead	mg/L	-	0.003 U	0.004	-	0.003 U	U	-	U	-	0.003 U
Lead (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.003 U	-
Mercury	mg/L	-	0.0002 U	0.0002 U	-	0.0002 U	-	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0002 U	-
Selenium	mg/L	-	0.005 U	0.005 U	-	0.005 U	U	-	U	-	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0095	-
Silver	mg/L	-	0.0005 U	0.0005 U	-	0.0005 U	-	-	-	-	0.0005 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0005 U	-
Zinc	mg/L	-	0.02 U	0.05	-	0.02 U	U	-	U	-	0.02 U
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.02 U	-
Pesticides											
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	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:		*PFW-2*	*PFW-9*	*PFW-9*	*PFW-9*	*MW-4*	*MW-4*	*MW-4*	*MW-10*	*MW-10*	*MW-10*
Sample ID:		*PFW-2D*	*PFW-9*	*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*MW-4*	*MW-4*	*W-12636-060700-KMV-502*	*MW-10*	*MW-10*	*MW-10*
Sample Date:		*4/1/1997*	*4/1/1997*	*6/7/2000*	*10/17/2002*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*11/13/1996*	*11/13/1996*	*4/1/1997*
Well Status:		*Existing (Duplicate)*	*Existing*	*Existing*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*
Parameters:	*Units*										
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	-	-	U	0.001 U	0.001 U	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	-	-	U	0.001 U	0.001 U	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
1,1-Dichloropropene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	-	-	0.001 U	-	-	-
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	-	-	-	-	-	-	0.001 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	mg/L	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-
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
2,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	-	-	0.05 U	0.01 U	-	0.05 U	-
2-Chloroethyl vinyl ether	mg/L	0.01 U	0.01 U	-	-	-	-	-	-	-	0.01 U
2-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	-	-	0.05 U	0.01 U	-	0.05 U	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	-	-	0.05 U	0.01 U	-	0.05 U	-
Acetone	mg/L	-	-	-	-	-	0.1 U	0.01 U	-	0.1 U	-
Benzene	mg/L	0.005 U	0.005 U	-	-	-	0.005 U	0.001 U	-	0.005 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
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	-	-	U	0.001 U	0.001 U	U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	-	-	-	-	0.05 U	0.001 U	-	0.05 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	0.002 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	-	-	U	0.001 U	0.002 U	U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	-	-	-	0.001 U	0.0005 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	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:		*PFW-2*	*PFW-9*	*PFW-9*	*PFW-9*	*MW-4*	*MW-4*	*MW-4*	*MW-10*	*MW-10*	*MW-10*
Sample ID:		*PFW-2D*	*PFW-9*	*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*MW-4*	*MW-4*	*W-12636-060700-KMV-502*	*MW-10*	*MW-10*	*MW-10*
Sample Date:		*4/1/1997*	*4/1/1997*	*6/7/2000*	*10/17/2002*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*11/13/1996*	*11/13/1996*	*4/1/1997*
Well Status:		*Existing (Duplicate)*	*Existing*	*Existing*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*
Parameters:	*Units*										
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	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 U	0.001 U	-	-	-	-	0.001 U	-	-	0.001 U
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	-	-	-
m&p-Xylene	mg/L	0.003 U	0.003 U	-	-	-	-	-	-	-	0.003 U
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	0.005 U	-	-	-	0.005 U	0.001 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	-	-	-	-	-	-	-	0.003 U
Styrene	mg/L	-	-	-	-	-	0.001 U	0.001 U	-	0.001 U	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.001 U	0.001 U	-	-	0.0007	0.001 U	0.001 U	0.0006	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	-	-	0.0008	0.001 U	0.000063 J	0.0007	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	-	-	U	0.001 U	0.0005 U	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	-	-	0.0053[a]	0.001 U	0.001 U	0.0046	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 U	-	-	-	-	0.001 U	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	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
Xylene (total)	mg/L	-	-	-	-	-	0.003 U	0.001 U	-	0.003 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	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	U	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:		*PFW-2*	*PFW-9*	*PFW-9*	*PFW-9*	*MW-4*	*MW-4*	*MW-4*	*MW-10*	*MW-10*	*MW-10*
Sample ID:		*PFW-2D*	*PFW-9*	*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*MW-4*	*MW-4*	*W-12636-060700-KMV-502*	*MW-10*	*MW-10*	*MW-10*
Sample Date:		*4/1/1997*	*4/1/1997*	*6/7/2000*	*10/17/2002*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*11/13/1996*	*11/13/1996*	*4/1/1997*
Well Status:		*Existing (Duplicate)*	*Existing*	*Existing*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*
Parameters:	*Units*										
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	-	-	-	-	-	-	-	U	-	-
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	-	-	-	-	-	-	-	U	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	mg/L	-	-	-	-	-	-	-	U	-	-
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	-	-	-	-	-	-	-	U	-	-
Nitrobenzene	mg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/L	-	-	-	-	-	-	-	U	-	-
Phenol	mg/L	-	-	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 14*	*AOI 14*	*AOI 14*	*AOI 14*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*	*AOI 15*
Sample Location:		*PFW-2*	*PFW-9*	*PFW-9*	*PFW-9*	*MW-4*	*MW-4*	*MW-4*	*MW-10*	*MW-10*	*MW-10*
Sample ID:		*PFW-2D*	*PFW-9*	*W-12636-060700-KMV-506*	*GW-12636-101702-DD-007*	*MW-4*	*MW-4*	*W-12636-060700-KMV-502*	*MW-10*	*MW-10*	*MW-10*
Sample Date:		*4/1/1997*	*4/1/1997*	*6/7/2000*	*10/17/2002*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*11/13/1996*	*11/13/1996*	*4/1/1997*
Well Status:		*Existing (Duplicate)*	*Existing*	*Existing*	*Existing*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*
Parameters:	***Units***										
Pyrene	mg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Arsenic	mg/L	0.005 U	0.005 U	-	-	U	0.016[b]	-	U	-	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.005 U	-
Barium	mg/L	0.61	0.97	-	-	0.39	0.24	-	0.26	-	1.6
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.2 U	-
Cadmium	mg/L	0.0005 U	0.0005 U	-	-	-	0.0005 U	-	-	-	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0005 U	-
Chromium	mg/L	0.05 U	0.05 U	-	-	-	0.05 U	-	-	-	0.05 U
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.05 U	-
Copper	mg/L	0.025 U	0.025 U	-	-	U	0.027	-	U	-	0.025 U
Copper (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.025 U	-
Lead	mg/L	0.003 U	0.009[b]	-	-	U	0.026[b]	-	0.014[b]	-	0.003 U
Lead (dissolved)	mg/L	-	-	0.003 U	0.003 U	-	-	0.003 U	-	0.003 U	-
Mercury	mg/L	0.0002 U	0.0002 U	-	-	-	0.0002 U	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0002 U	-
Selenium	mg/L	0.005 U	0.005 U	-	-	U	0.012	-	U	-	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0054	-
Silver	mg/L	0.0005 U	0.0005 U	-	-	-	0.0005 U	-	-	-	0.0005 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.0005 U	-
Zinc	mg/L	0.02 U	0.02 U	-	-	U	0.02	-	U	-	0.02 U
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-	-	0.02 U	-
Pesticides											
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	-	-	-	-	-	-	-	U	0.0002 U	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 15*	*AOI 15*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*MW-10*	*PFW-5*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*PFW-4*
Sample ID:		*W-12636-060700-KMV-501*	*PFW-5*	*MW-3*	*W-8692-111496-SF-010*	*W-12636-060700-KMV-503*	*GW-12636-101702-DD-004*	*GW-12636-101702-DD-005*	*PFW-4*
Sample Date:		*6/7/2000*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*10/17/2002*	*10/17/2002*	*4/1/1997*
Well Status:		*Abandoned*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (Duplicate)*	*Existing*
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
1,1,2,2-Tetrachloroethane	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
1,1,2-Trichloroethane	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
1,1-Dichloroethane	mg/L	-	0.001 U	U	0.001 U	-	-	-	0.001 U
1,1-Dichloroethene	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
1,1-Dichloropropene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	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	-	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	-	-	-	-	-	-	-	-
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
2,2-Dichloropropane	mg/L	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	-	-	0.05 U	-	-	-	-
2-Chloroethyl vinyl ether	mg/L	-	0.01 U	-	-	-	-	-	0.01 U
2-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	-	-	0.05 U	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/L	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	-	-	0.05 U	-	-	-	-
Acetone	mg/L	-	-	-	0.1 U	-	-	-	-
Benzene	mg/L	-	0.005 U	-	0.005 U	-	-	-	0.005 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	0.0088	0.001 U	-	-	-	0.001 U
Carbon disulfide	mg/L	-	-	-	0.05 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	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	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 15*	*AOI 15*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*MW-10*	*PFW-5*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*PFW-4*
Sample ID:		*W-12636-060700-KMV-501*	*PFW-5*	*MW-3*	*W-8692-111496-SF-010*	*W-12636-060700-KMV-503*	*GW-12636-101702-DD-004*	*GW-12636-101702-DD-005*	*PFW-4*
Sample Date:		*6/7/2000*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*10/17/2002*	*10/17/2002*	*4/1/1997*
Well Status:		*Abandoned*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (Duplicate)*	*Existing*
Parameters:	*Units*								
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	0.001 U	-	-	-	-	-	0.001 U
Ethylbenzene	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
Isopropyl benzene	mg/L	-	-	-	-	-	-	-	-
m&p-Xylene	mg/L	-	0.003 U	-	-	-	-	-	0.003 U
Methyl acetate	mg/L	-	-	-	-	-	-	-	-
Methyl cyclohexane	mg/L	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	-	-	-	-
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	-	0.003 U	-	-	-	-	-	0.003 U
Styrene	mg/L	-	-	-	0.001 U	-	-	-	-
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	-	0.001 U	U	0.001 U	-	-	-	0.001 U
Toluene	mg/L	-	0.001 U	0.0005	0.001 U	-	-	-	0.001 U
trans-1,2-Dichloroethene	mg/L	-	0.001 U	U	0.001 U	-	-	-	0.001 U
trans-1,3-Dichloropropene	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
Trichloroethene	mg/L	-	0.001 U	0.0038	0.001 U	-	-	-	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	-	0.001 U	-	-	-	-	-	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	-	-	-	-	-	-	-	-
Vinyl chloride	mg/L	-	0.001 U	-	0.001 U	-	-	-	0.001 U
Xylene (total)	mg/L	-	-	-	0.003 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	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/L	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/L	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 15*	*AOI 15*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*MW-10*	*PFW-5*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*PFW-4*
Sample ID:		*W-12636-060700-KMV-501*	*PFW-5*	*MW-3*	*W-8692-111496-SF-010*	*W-12636-060700-KMV-503*	*GW-12636-101702-DD-004*	*GW-12636-101702-DD-005*	*PFW-4*
Sample Date:		*6/7/2000*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*10/17/2002*	*10/17/2002*	*4/1/1997*
Well Status:		*Abandoned*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (Duplicate)*	*Existing*
Parameters:	*Units*								
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	-	-	-	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 15*	*AOI 15*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*	*AOI 18*
Sample Location:		*MW-10*	*PFW-5*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*MW-3*	*PFW-4*
Sample ID:		*W-12636-060700-KMV-501*	*PFW-5*	*MW-3*	*W-8692-111496-SF-010*	*W-12636-060700-KMV-503*	*GW-12636-101702-DD-004*	*GW-12636-101702-DD-005*	*PFW-4*
Sample Date:		*6/7/2000*	*3/31/1997*	*11/14/1996*	*11/14/1996*	*6/7/2000*	*10/17/2002*	*10/17/2002*	*4/1/1997*
Well Status:		*Abandoned*	*Abandoned*	*Abandoned*	*Abandoned (other)*	*Abandoned*	*Abandoned*	*Abandoned (Duplicate)*	*Existing*
Parameters:	***Units***								
Pyrene	mg/L	-	-	-	-	-	-	-	-
Metals									
Arsenic	mg/L	-	0.005 U	U	0.013	-	-	-	0.005 U
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-	-
Barium	mg/L	-	0.45	0.27	0.2 U	-	-	-	1.6
Barium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	0.0014	-	0.0005 U	-	-	-	0.0005 U
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Chromium	mg/L	-	0.05 U	-	0.05 U	-	-	-	0.05 U
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-	-
Copper	mg/L	-	0.025 U	U	0.032	-	-	-	0.025 U
Copper (dissolved)	mg/L	-	-	-	-	-	-	-	-
Lead	mg/L	-	0.003 U	U	0.012	-	-	-	0.003 U
Lead (dissolved)	mg/L	0.003 U	-	-	-	0.003 U	0.003 U	0.003 U	-
Mercury	mg/L	-	0.0002 U	-	0.0002 U	-	-	-	0.0002 U
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-	-
Selenium	mg/L	-	0.005 U	U	0.01	-	-	-	0.005 U
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-	-
Silver	mg/L	-	0.0005 U	-	0.0005 U	-	-	-	0.0005 U
Silver (dissolved)	mg/L	-	-	-	-	-	-	-	-
Zinc	mg/L	-	0.02 U	U	0.11	-	-	-	0.02
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-	-
Pesticides									
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	-	-	U	0.0002 U	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*Drift*	*Drift*	*Drift*	*Drift*
Sample Location:		*MW-6*	*MW-6*	*MW-8*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*MW-6*	*W-111396-BM-003*	*MW-8*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*11/13/1996*	*11/13/1996*	*11/13/1996*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
Well Status:		*Abandoned*	*Abandoned (other)*	*Abandoned*	*Existing*	*Existing*	*Existing*	*Existing*
Parameters:	*Units*							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	mg/L	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/L	U	0.001 U	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
1,1,2-Trichloroethane	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	U	0.001 U	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
1,1-Dichloropropene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/L	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U
1,2,4-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
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	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
1,2-Dichloropropane	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/L	-	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
2,2-Dichloropropane	mg/L	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	mg/L	-	0.05 U	-	-	0.01 U	0.01 U	0.01 U
2-Chloroethyl vinyl ether	mg/L	-	-	-	0.01 U	-	-	-
2-Chlorotoluene	mg/L	-	-	-	-	-	-	-
2-Hexanone	mg/L	-	0.05 U	-	-	0.01 U	0.01 U	0.01 U
2-Phenylbutane (sec-Butylbenzene)	mg/L	-	-	-	-	-	-	-
4-Chlorotoluene	mg/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone)	mg/L	-	0.05 U	-	-	0.01 U	0.01 U	0.01 U
Acetone	mg/L	-	0.1 U	-	-	0.01 U	0.01 U	0.01 U
Benzene	mg/L	-	0.005 U	-	0.005 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
Bromoform	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl bromide)	mg/L	U	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	-	0.05 U	-	-	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
Chlorobenzene	mg/L	-	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	0.002 U	0.002 U	0.002 U
Chloroform (Trichloromethane)	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl chloride)	mg/L	U	0.001 U	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	0.0005 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
Cyclohexane	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*Drift*	*Drift*	*Drift*	*Drift*
Sample Location:		*MW-6*	*MW-6*	*MW-8*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*MW-6*	*W-111396-BM-003*	*MW-8*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*11/13/1996*	*11/13/1996*	*11/13/1996*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
Well Status:		*Abandoned*	*Abandoned (other)*	*Abandoned*	*Existing*	*Existing*	*Existing*	*Existing*
Parameters:	*Units*							
Cymene (p-Isopropyltoluene)	mg/L	-	-	-	-	-	-	-
Dibromochloromethane	mg/L	-	0.001 U	-	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	mg/L	-	-	-	0.001 U	0.001 U	0.001 U	0.001 U
Ethylbenzene	mg/L	-	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
m&p-Xylene	mg/L	-	-	-	0.003 U	-	-	-
Methyl acetate	mg/L	-	-	-	-	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	-	-	-	-	0.001 U	0.001 U	0.001 U
Methyl tert butyl ether (MTBE)	mg/L	-	-	-	-	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	-	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
tert-Butylbenzene	mg/L	-	-	-	-	-	-	-
Tetrachloroethene	mg/L	0.0006	0.001 U	U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.0007	0.001 U	0.0014	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	U	0.001 U	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
Trichloroethene	mg/L	0.0049	0.001 U	0.0047	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
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	0.001 U	0.001 U
Xylene (total)	mg/L	-	0.003 U	-	-	0.001 U	0.001 U	0.001 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	-	-	-	-	-
2-Nitroaniline	mg/L	-	0.02 U	-	-	-	-	-
2-Nitrophenol	mg/L	U	0.005 U	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/L	-	0.02 U	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*Drift*	*Drift*	*Drift*	*Drift*
Sample Location:		*MW-6*	*MW-6*	*MW-8*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*MW-6*	*W-111396-BM-003*	*MW-8*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*11/13/1996*	*11/13/1996*	*11/13/1996*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
Well Status:		*Abandoned*	*Abandoned (other)*	*Abandoned*	*Existing*	*Existing*	*Existing*	*Existing*
Parameters:	*Units*							
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	U	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	U	0.005 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/L	-	0.005 U	-	-	-	-	-
Fluoranthene	mg/L	-	0.005 U	-	-	-	-	-
Fluorene	mg/L	U	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	U	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	U	0.005 U	-	-	-	-	-
Phenol	mg/L	-	0.005 U	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Area of Interest:		*AOI 20/22*	*AOI 20/22*	*AOI 20/22*	*Drift*	*Drift*	*Drift*	*Drift*
Sample Location:		*MW-6*	*MW-6*	*MW-8*	*PFW-1*	*PFW-1*	*PFW-1*	*PFW-1*
Sample ID:		*MW-6*	*W-111396-BM-003*	*MW-8*	*PFW-1*	*GW-12636-100802-DD-001*	*GW-12636-100802-DD-002*	*GW-12636-100902-DD-003*
Sample Date:		*11/13/1996*	*11/13/1996*	*11/13/1996*	*4/1/1997*	*10/8/2002*	*10/8/2002*	*10/9/2002*
Well Status:		*Abandoned*	*Abandoned (other)*	*Abandoned*	*Existing*	*Existing*	*Existing*	*Existing*
Parameters:	***Units***							
Pyrene	mg/L	-	0.005 U	-	-	-	-	-
Metals								
Arsenic	mg/L	U	-	-	0.04 [a]	-	-	-
Arsenic (dissolved)	mg/L	-	-	-	-	-	-	-
Barium	mg/L	0.34	-	-	0.55	-	-	-
Barium (dissolved)	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	0.0005 U	-	-	-
Cadmium (dissolved)	mg/L	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	0.05 U	-	-	-
Chromium Total (dissolved)	mg/L	-	-	-	-	-	-	-
Copper	mg/L	U	-	-	0.025 U	-	-	-
Copper (dissolved)	mg/L	-	-	-	-	-	-	-
Lead	mg/L	U	-	-	0.003 U	-	-	-
Lead (dissolved)	mg/L	-	-	-	-	0.003 U	0.003 U	0.003 U
Mercury	mg/L	-	-	-	0.0002 U	-	-	-
Mercury (dissolved)	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	U	-	-	0.005 U	-	-	-
Selenium (dissolved)	mg/L	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	0.0005 U	-	-	-
Silver (dissolved)	mg/L	-	-	-	-	-	-	-
Zinc	mg/L	U	-	-	0.02 U	-	-	-
Zinc (dissolved)	mg/L	-	-	-	-	-	-	-
Pesticides								
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	U	0.0002 U	-	-	-	-	-

APPENDIX B-2
WATER ANALYTICAL RESULTS
FORMER PEREGRINE (US), INC., COLDWATER ROAD FACILITY
GENESEE TOWNSHIP, MICHIGAN

Notes:

J - Estimated concentration.
U - Not present at or above the associated value.
- - Not analyzed.
a - Groundwater Contact Criteria (GCC[A])
b - Ind. Drinking Water Criteria (IDWC[B])
c - Ind. Groundwater Volatilization to Indoor Air Inhalation Criteria (IGVIAIC[C])

APPENDIX C

GENESEE TOWNSHIP ZONING ORDINANCE