



**Quarterly Report of Progress (November 2011-January 2012)
Operations and Maintenance
Remediation Systems for Gasoline Alley and Army Air Force
Exchange Service Station
Fort Drum, New York**



United States Army Environmental Command



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Prepared for

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LIST OF ACRONYMS & ABBREVIATIONS

AAFES	Army Air Force Exchange Service
AAS	Aquifer Air Sparging
bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
cfm	cubic feet per minute
DO	Dissolved Oxygen
DPE	Dual-phase extraction
ft	Feet
gpm	gallons per minute
ISCO	In-Situ Chemical Oxidation
LIF	Laser-Induced Fluorescence
LNAPL	Light Non-Aqueous Phase Liquid
MIP	Membrane Interface Probe
µg/l	Micrograms per liter
MPE	Multi-phase extraction
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and maintenance
ORP	Oxidation-Reduction Potential
PID	Photoionization Detector
Plexus	Plexus Scientific Corporation
POTW	Publicly-Owned Treatment Works
ppm	parts per million
psi	pounds per square inch
SVE	Soil Vapor Extraction
USEPA	United States Environmental Protection Agency
UVOST	Ultra-Violet Optical Screening Tool
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

Gasoline Alley is located in the southwest corner of the Fort Drum Military Installation, within the developed portion of the installation known as the Cantonment Area (**Figure 1-1**). The 2-mile-long thoroughfare consists of two parallel one-way streets (Oneida and Ontario Avenues) and the associated unpaved median located between the two avenues.

Nine former fuel dispensing areas were located in or near the Gasoline Alley median. The former dispensing areas are referred to as Areas 1195, 1295, 1395, 1495, 1595, 1795, 1895, 1995, and 3805; however, only five of those areas (Areas 1295, 1595, 1795, 1995, and 3805) and the Army Air Force Exchange Services (AAFES) Service Station (Building P-2140) are discussed in this report. Under Delivery Order 0004, Plexus Scientific Corporation (Plexus) provided operation and maintenance (O&M) services at the previously mentioned Gasoline Alley sites through 31 January 2012. The sections below (2.0 and 3.0) present an overview of the technologies being employed at the sites followed by descriptions of each site including a brief remediation history.

2.0 TECHNOLOGY OVERVIEW

Currently, contaminant concentrations at the Fort Drum Military Installation are being addressed by monitored natural attenuation and a variety of active remedial technologies briefly explained in this section. As contaminant concentrations are at varying degrees at the different locations, the technologies for treatment vary.

2.1 In-situ Chemical Oxidation with Ozone

In-situ Chemical Oxidation (ISCO) is the injection of liquid or gas into the subsurface that causes oxidation and can result in the direct destruction of petroleum contamination. This process can also result in the indirect decrease of petroleum contamination by increasing the dissolved oxygen content in groundwater, which enhances biodegradation. Currently, Plexus is applying the ISCO technology in the form of gas ozone (O₃) injection. Ozone is an allotrope of oxygen, consisting of three oxygen atoms that are less stable than diatomic oxygen (O₂). Ozone is more soluble than oxygen in water and has been used for decades in municipal water treatment applications for disinfectant purposes. However, the use of ozone as an ISCO compound for soil and groundwater remediation projects has increased over the last several years as an alternative remedial method. There are two distinct forms of in-situ ozone application: vadose zone injection of ozone gas and ozone sparging below the water table. In general, ozone based processes for site remediation are similar to other chemical oxidation techniques in that the oxidant of choice is injected into the desired treatment area. However, the use of ozone is different from most oxidation processes as the ozone can be injected as a gas or liquid (as ozonated water). This approach provides the opportunity to deliver more continuous oxidation as opposed to batch applications typically associated with other techniques. When an ozone molecule comes in contact with a volatile organic compound (VOC) molecule, the ozone reacts with the contaminant producing innocuous substances such as carbon dioxide (CO₂) and water (H₂O).

2.2 Dual-phase Extraction / Multi-phase Extraction

Dual-phase extraction (DPE), also known as multi-phase extraction, vacuum-enhanced extraction, or sometimes bioslurping, is an *in-situ* technology that uses pumps to remove various combinations of contaminated groundwater, separate-phase petroleum product, and hydrocarbon vapor from the subsurface. Extracted liquids and vapor are treated and collected for disposal, or re-injected to the subsurface (where permissible under applicable state laws). DPE systems can be effective in removing separate-phase product (free product) from the subsurface, thereby reducing concentrations of petroleum hydrocarbons in both the saturated and unsaturated zones of the subsurface. DPE systems are typically designed to maximize extraction rates; however, the technology also stimulates biodegradation of petroleum constituents in the unsaturated zone by increasing the supply of oxygen, in a manner similar to that of bioventing. DPE is often selected because it enhances groundwater and/or product recovery rates, especially in layered, fine-grained soils. The application of DPE also maximizes the effectiveness of soil vapor extraction (SVE) by lowering the water table and therefore increasing air-phase permeabilities in the vadose zone. The vacuum applied to the subsurface with DPE systems creates vapor-phase pressure gradients toward the vacuum well. These vapor-phase pressure gradients are also transmitted directly to the subsurface liquids present, and those liquids existing in a continuous phase (*e.g.*, water and "free" petroleum product) will flow toward the vacuum well in response to the imposed gradients (the term "free" product is a commonly used, though imprecise term because a greater fraction of resident petroleum product may be recovered using vacuum-

enhanced DPE compared to the fraction of product recoverable using gravity drainage alone). The higher the applied vacuum, the larger the hydraulic gradients that can be achieved in both vapor and liquid phases, and thus the greater the vapor and liquid recovery rates.

2.3 Aquifer Air Sparging System

Air sparging is an *in-situ* remedial technology that reduces concentrations of volatile constituents in petroleum products that are adsorbed to soils and dissolved in groundwater. This technology, which is also known as "*in-situ* air stripping" and "*in-situ* volatilization," involves the injection of contaminant-free air into the subsurface saturated zone, enabling a phase transfer of hydrocarbons from a dissolved state to a vapor phase. The air is then vented through the unsaturated zone. Air sparging is most often used together with soil vapor extraction (SVE), but it can also be used with other remedial technologies. When air sparging (AS) is combined with SVE, the SVE system creates a negative pressure in the unsaturated zone through a series of extraction wells to control the vapor plume migration. This combined system is called AS/SVE.

2.4 Soil Vapor Extraction

Soil vapor extraction (SVE), also known as "soil venting" or "vacuum extraction", is an *in-situ* remedial technology that reduces concentrations of volatile constituents in petroleum products adsorbed to soils in the unsaturated (vadose) zone. In this technology, a vacuum is applied through wells near the source of contamination in the soil. Volatile constituents of the contaminant mass "evaporate" and the vapors are drawn toward the extraction wells. Extracted vapor is then treated as necessary (commonly with carbon adsorption) before being released to the atmosphere. The increased air flow through the subsurface can also stimulate biodegradation of some of the contaminants, especially those that are less volatile. Wells may be either vertical or horizontal. In areas of high groundwater levels, water table depression pumps may be required to offset the effect of upwelling induced by the vacuum.

3.0 GASOLINE ALLEY SITE DESCRIPTIONS

3.1 Area 1295

Three areas of soil and groundwater contamination have been identified during the installation of monitoring wells, as well as through direct push sampling. A remediation system wasn't installed at this site due to logistical site constraints, including an active rail line. Alternatively, ISCO injections, using a hydrogen peroxide-based chemical oxidant mixture with Fenton's Reaction chemistry, were conducted in 2006 and 2007. Five full-scale injections were conducted at each of three source treatment areas. Results indicated that the ISCO injections were not effective at sufficiently reducing the benzene, toluene, ethylbenzene and total xylenes (BTEX) concentrations in the groundwater at Area 1295. The results of the Membrane Interface Probe (MIP) and Laser Induced Fluorescence (LIF) Ultraviolet Optical Screening Tool (UVOST) Investigations conducted in April 2009 indicated, an area of impacted soil potentially contributing to the groundwater impact at Area 1295. The horizontal distribution of this zone has been delineated and consists of an approximately 20-foot (ft) wide north south trending area of impacted soils and groundwater extending between eight and 12-ft below grade surface (bgs).

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus installed 12 injection points to a depth of approximately 11 to 13-ft bgs. The injection points were constructed of two inch schedule 80 PVC consisting of two-feet of 40-micron Schuma Screen diffuser and approximately 10-ft of solid riser to be finished at grade with a flushmount well cover. The intent of the injection duration was to be one month followed by an evaluation and determination of future application. Based on the response to treatment from other area applications and for flexibility in treatment technology, Plexus installed 12 points to depths ranging from 11 to 13-ft bgs with a standard 2-inch monitoring well construction. Injection stingers were constructed as detailed in the work plan. In addition to the use of a monitoring well construction, Plexus learned from previous applications that though the fluctuations in dissolved oxygen (DO) and oxidation-reduction potential (ORP) were indications of gas delivery, application durations longer than two months were necessary for observable reductions in contaminant concentrations. The ozone treatment unit was mobilized from Area 1795 and began operation on 22 July 2010, and continued to 6 December 2010. The unit was shut down due to weather conditions and resumed operation in April 2011. On 13 December 2011, Plexus began a five month nutrient application trial in conjunction with normal system operations, but the injection system was deactivated on 29 December 2011, due to freezing weather. At the time of this report, a continuous power source had been installed to facilitate year round operation. Results and recommendations for this site are presented in Sections 4.1 and 5.1 of this document.

3.2 Area 1595

An Interim Remedial Action was implemented at Area 1595 in 1991. The Interim Remedial Action consisted of installing a treatment facility (Building 1599) that treated groundwater extracted from four recovery wells (1595-RW1, 1595-RW3, 1595-RW4, and 1595-RW5) using an air stripper. On 23 June 2005, the groundwater treatment system was shut off and decommissioned in preparation for the SVE and AAS system installation. Construction of the SVE/AAS system was completed between July and November 2005. The SVE/AAS system was started in December 2005. The SVE/AAS treatment system is designed to address constituents

of concern in subsurface soil, groundwater, and surface water at Area 1595. The system was shut down on 21 December 2009 in preparation of ozone injection activities, as outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009.

Based on the results of the MIP and LIF UVOST Investigations conducted in April 2009, an area of impacted soil potentially contributing to the groundwater impact at Area 1595 was identified in the area of 1595-PZ9. The ozone treatment unit was mobilized from Area 1395 and began operation on 22 December 2009, running through 22 February 2010. Although fluctuations in DO and ORP were observed during the application at Area 1395, a two-month application duration was applied at Area 1595 to determine if contaminant reduction could be observed. Ozone was applied to the subsurface in the area via 10 injection points as a “hot-spot” treatment application in the area of monitoring point, 1595-PZ9. Following the ozone application, the AAS system was re-activated primarily to supply air to the subsurface to augment biodegradation activities.

Additionally, based on the general chemistry data that Plexus has been collecting during groundwater sampling events, a work plan for nutrient application at Area 1595 was submitted in August 2010. The work plan identified a nutrient mixture of nitrogen: phosphorous: potassium being applied to the subsurface via the air sparge system injection points for three consecutive months. Upon receipt of the required approvals, NYSDEC and USEPA Region II, Plexus began the application in January 2011 and completed it in March 2011. Sampling was completed in April 2011, validated groundwater results were received in June 2011, and the results and recommendations were presented under another cover as *the Draft Pilot Test Results for Nutrient Application at Building T-91 and Areas 1595, 1245, 1395, and 1495 Fort Drum, New York*, dated August 2011. Following the nutrient application, the AAS system was re-activated to continue to supply air to the subsurface to augment biodegradation activities.

Finally, September 2011 extraction system well gauging data indicated that the exposed screen interval on the extraction wells ranged from two feet to four feet. Following system checks and general maintenance, the extraction system was reactivated on 7 October 2011. The system operated until 13 December 2011, at which time, the five month nutrient application trial was implemented to evaluate the sole affects of nutrient amendments on contaminant remediation. Operating system results and recommendations for this site are presented in Sections 4.2 and 5.2 of this document.

3.3 Area 1795

The bio-slurping pilot treatment system was shut down in September 2000. Select site wells were subsequently gauged on a monthly basis between September 2000 and July 2006 to monitor the water table elevation and light non-aqueous phase liquids (LNAPL). LNAPL were recovered from site wells when present. MPE and AAS technologies were selected to address the source area vadose zone soil and saturated smear zone soil at Area 1795. Site work for the installation of three new SVE/AAS remediation systems was completed between Spring and Winter 2007. Start up and prove out of the SVE/AAS systems began in January 2008. The remedial systems included in this report were installed at the locations described below:

- Area 1795 Zone 1, south of the railroad tracks including the median between Oneida and Ontario Avenues (System A)
- Area 1795 Zone 2, north of the railroad tracks and east of the WWII Landfill (System B)

- Area 1795 Zone 3, north of the WWII Landfill (System C)

The system was shut down on 22 April 2010 in preparation for ozone injection activities. The ozone treatment unit was mobilized from Area 1595 and began operation on 22 April 2010, running through 26 April 2010, when it was shut down to allow the SVE system to extract elevated petroleum vapors detected within area monitoring wells. Ozone was applied to the subsurface in the area via six injection points. The SVE/AAS systems continue to run and isolation of the various system extraction legs has enhanced the contaminant recovery. On 13 December 2011, Plexus began a five month nutrient application trial in conjunction with the targeted SVE/AAS system operations. Results and recommendations for this site are presented in Sections 4.3 and 5.3 of this document.

3.4 Areas 3805 and 1995

MPE and AAS technologies were selected to address the source area vadose zone soil, LNAPL, and saturated smear zone soil at Areas 3805 and 1995. The remedial systems included in this report were installed at the locations described below:

- Area 3805 north, directly south of New York State Route 26 (System A)
- Area 3805 south, remaining portion of Area 3805 (System B)
- Area 3805, north of New York State Route 26 (System C)
- Area 1995 (System D)

The Area 3805 MPE/AAS systems were started in November 2003 (Systems A and B) and October 2003 (System C). The Area 1995 MPE/AAS system (System D) was started in May 2004.

The AAS system was expanded in 2007 to enhance remediation of the dissolved plume in the downgradient area of the site and improve the performance of System C. Field activities associated with the AAS system expansion were completed between May and August 2007, which consisted of the installation of 18 AAS wells and associated underground piping, and retrofitting the existing trailer.

Plexus proposed to modify selected existing vertical extraction wells into horizontal extraction wells at Gasoline Alley Area 3805, Fort Drum, New York in April 2011. A revised copy was submitted in October 2011. The results from the Fall 2010 Groundwater Sampling event, combined with the soil gas screening conducted during a Fall 2010 intrusive investigation, indicate a vadose zone soil impact which is shallower than the existing, active treatment system. Additionally, a MIP investigation in the area of Leg 9 indicated a shallow impacted soil zone. **(Figure 2-1)** illustrates the organic vapor concentrations reported on the field screening equipment. These results suggest that the modification of select vertical extraction wells into horizontal extraction wells would provide a recovery and treatment solution for the shallower impacted soils. Additionally, on 13 December 2011, Plexus implemented a five month nutrient application trial in conjunction with AAS system operations. Results and recommendations for this site are presented in Sections 4.4 and 5.4 of this document.

3.5 Army Air Force Exchange Service Station Site Description

The Army Air Force Exchange Service (AAFES) Station (Building P-2140), which is an active retail gasoline facility, is located at the southwest corner of Fort Drum **(Figure 1-1)**.

3.5.1 Dual-Phase Extraction System – Source Area Treatment

A DPE treatment system began operation on 30 January 2002 in the area of the former USTs. The objective of the DPE system is to address separate-phase product and residual soil contamination in the source area of the AAFES Station (Building P-2140) site. In order to improve the performance of the DPE system, an AAS system was installed in the source area in 2006 to enhance remediation of the dissolved plume by addressing residual soil contamination below the water table. Field activities associated with the DPE system enhancements were completed between November 2005 and February 2006, which included the installation of 16 AAS wells and associated underground piping, and retrofitting an existing trailer with AAS equipment.

As outlined in the Workplan for Mobile Ozone Aquifer Air Sparging System, dated August 2009, Plexus installed seven injection points ranging between 25 to 30-ft bgs in the area of monitoring well MW02 and downgradient. The DPE/AAS system was shut down on 22 December 2009 in preparation of ozone injection activities. The ozone treatment unit began operation on 22 December 2009, running through 12 May 2010 when the ozone generator circuit board failed and the system was switched to air sparge only. The ozone system was taken completely off line on 24 June 2010 for system repairs and upgrades. In an effort to continue active treatment of the contaminants during the ozone system's downtime, the existing DPE/AAS system was reactivated. On 24 September 2010, the ozone injection system was mobilized back to the site and reactivated. The contaminant depth and concentrations at AAFES Station (Building P-2140) indicated that a continuous application coupled with the scheduled sampling events would be necessary to monitor contaminant reduction and determine effectiveness. Since the observed impact appears to be at a depth greater than the existing DPE infrastructure, ozone was being applied to the subsurface of the service station via seven newly installed injection points. As a result of mechanical system failures and electrical issues, the mobile ozone system was removed from the site in September 2011 and at the time of this report, Plexus intends to receive a newer unit at the site. Additionally, on 13 December 2011, Plexus implemented a five month nutrient application in conjunction with DPE/AAS system operations. Results and recommendations for this site are presented in Sections 4.5 and 5.5 of this document.

3.5.2 Aquifer Air Sparging with Ozone System – Off-site Wetland Protection

An AAS with ozone treatment system was installed in Fall 2000 outside the Fort Drum property boundary, and began operation on 14 December 2000. The purpose of the AAS with ozone treatment system was to treat the dissolved-phase benzene, toluene, ethylbenzene, and total xylenes and methyl tertiary-butyl ether plume downgradient of the source area prior to discharging into a downgradient wetlands area. Analytical results from the groundwater samples in this area indicated that total BTEX concentrations in groundwater had been reduced below NYSDEC standards. Therefore, the AAS with ozone treatment system was deactivated on 23 March 2009 following NYSDEC concurrence and approval. The area remains in a post-remedial monitoring phase. Results and recommendations for this site are presented in Sections 4.5 and 5.5 of this document.

4.0 SYSTEM OPERATION AND PERFORMANCE MONITORING ACTIVITIES

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (November 2011 to January 2012). Plexus took over the operation and monitoring activities from EA effective 1 May 2008, with the exception of Area 1795, which Plexus took over effective 7 July 2008.

Daily O&M site visits were conducted during the reporting period to monitor treatment system performance, collect operational data, and make necessary adjustments to the treatment system to optimize system performance. Scheduled maintenance performed during the period included lower explosive limit sensor calibration, vacuum pump and compressor oil changes, filter cleanings, vacuum pump belt adjustments, and static liquid level collection.

4.1 Area 1295

4.1.1 Ozone System

Continued elevated concentrations of dissolved petroleum hydrocarbon compounds in groundwater indicated that active remediation was necessary. The results of the MIP and LIF UVOST Investigations, conducted in April 2009, indicated an area of soil contamination potentially contributing to the groundwater impact. Subsequently, the ozone treatment unit was mobilized from Area 1795 and began operation on 22 July 2010 at the site. Ozone application to the subsurface was conducted in the area via 12 injection points (**Figure 2-2**).

4.1.2 Performance Monitoring

Following remobilization and activation of the mobile ozone system on 12 April 2011, daily performance monitoring and O&M activities were conducted at Area 1295. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness. Ozone injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. The 1295 ozone injection system operated for 36 days during the reporting period and was deactivated on 29 December 2011 due to a portable power source and inclement weather. Based on the 36 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	23	59	39
Operational downtime	0	36	0
Unscheduled downtime	0	36	0
Total unexpected downtime	0	36	0

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/1/11	12/2/11	Scheduled	Off due to weather conditions
12/29/11	NA	Scheduled	Off due to weather conditions

4.2 Area 1595

4.2.1 Soil Vapor Extraction System

4.2.1.1 System Operation

The Area 1595 SVE treatment system (**Figure 2-3**) operated 43 days between 1 November 2011 and 13 January 2012 as derived from the system's operation hour meter. On 13 December 2011, the system was deactivated, for a five month period, to evaluate the sole effects of nutrient application on the site. Based on the 43 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	48	91	53
Operational downtime	0	43	0
Unscheduled downtime	0	43	0
Total unexpected downtime	0	43	0

A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
11/09/11	11/09/11	Scheduled	Scheduled power outage
12/13/11	NA	Scheduled	Nutrient study

4.2.2 Aquifer Air Sparging System

4.2.2.1 System Operation

The Area 1595 AAS system operated for 43 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Additionally, on 13 December 2011, the system was deactivated, for a five month period, to evaluate the sole effects of nutrient application on the site. Based on the 43 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	48	91	53
Operational downtime	0	43	0
Unscheduled downtime	0	43	0
Total unexpected downtime	0	43	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
11/09/11	11/09/11	Scheduled	Scheduled power outage
12/13/11	NA	Scheduled	Nutrient study

4.2.2.2 Performance Monitoring

In addition to the daily performance monitoring and O&M activities, DO, ORP, and photoionization detector (PID) readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

4.3 Area 1795

4.3.1 Multi-Phase Extraction Systems

4.3.1.1 Area 1795 - System A Operation

The initial design configuration for Area 1795 System A (**Figure 2-4**) runs extraction Legs 1, 5, and 6. However, on 1 December 2009, system extraction Legs 1 and 6 were replaced with Legs 3 and 4, due to an oil leak on the System B extraction blower. Subsequently, the System B blower was repaired, but the recovery efficiency and effectiveness of utilizing one extraction blower while switching extraction legs to isolate “hot-spot” extraction remained high, and Plexus continued with the single extraction blower configuration. The MPE treatment system operated for 91 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 91 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	91	0
Operational downtime	0	91	0
Unscheduled downtime	0	91	0
Total unexpected downtime	0	91	0

A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.3.1.2 Area 1795 - System B Operation

Area 1795 System B (**Figure 2-4**) operates extraction Legs 2, 3, and 4. Legs 3 and 4, located within the center of the contaminant plume, were tied in to 1795 System A so that this area would continue to be treated while the blower was being repaired. High efficiency and effectiveness from the utilization of a single extraction blower for “hot-spot” treatment have resulted in the continued deactivation of System B extraction blower.

4.3.1.3 Performance Monitoring

Daily performance monitoring and O&M activities were conducted on the Area 1795 MPE system. Scheduled activities performed during this period included inspection and service of system components and adjustment of vacuum extraction rates from the recovery wells to maximize system performance and effectiveness.

Extraction vacuum and flow rates on the MPE system and select well heads were recorded during the daily site visits, or as weather conditions permitted. If the flow rate required adjustment, the new flow rate was recorded. Additionally, extracted soil vapor concentrations and airflow rates were collected after the vacuum pump.

4.3.2 Aquifer Air Sparge System

The AAS systems were operated during the monitoring period to augment the Area 1795 MPE/SVE systems.

4.3.2.1 Area 1795 - System A Operation

Area 1795 System A AAS system operated for 91 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 91 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	91	0
Operational downtime	0	91	0
Unscheduled downtime	0	91	0
Total unexpected downtime	0	91	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.3.2.2 Area 1795 - System B Operation

Area 1795 System B AAS system operated for 91 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 91 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	91	0
Operational Downtime	0	91	0
Unscheduled	0	91	0
Total unexpected downtime	0	91	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.3.2.3 Area 1795 - System C Operation

Area 1795 System C (**Figure 2-5**) runs Lines 7, 8 and 9. The AAS treatment system operated for 91 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 91 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during the monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	91	0
Operational downtime	0	91	0
Unscheduled downtime	0	91	0
Total unexpected downtime	0	91	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
NA	NA	NA	NA

4.3.2.4 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the Area 1795 AAS systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness.

Air injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. As the primary objective of the AAS technology is the air stripping of dissolved contaminants within the groundwater, all the air sparge wells were activated to maximize stripping and increase the potential for elevating the DO levels. The injection pressure was monitored to stay within the design specifications.

In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

4.4 Areas 3805 And 1995

4.4.1 Multi-Phase Extraction Systems

4.4.1.1 Area 3805 - System A

Area 3805 System A (**Figure 2-6**) primarily runs Lines 3, 4, and 5. The MPE treatment system did not operate between 1 November 2011 and 31 January 2012. The system operated continuously from 15 April 2008 until it was deactivated following the system evaluation and optimization activities conducted in April 2009. Continuous operations of the SVE portions of System 3805 A should remain off until system modifications are completed in March 2012 or monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen, to allow for effective removal of hydrocarbon vapors.

4.4.1.2 Area 3805 - System B

Area 3805 System B (**Figure 2-7**) primarily runs Lines 6, 7, 8, 9, 10 and 11. Lines 10 and 11 were activated in July 2008, but deactivated when it was determined that they were believed to be damaged and subsequently pulling too much water into the system. Although monthly gauging activities have not indicated that the groundwater table had dropped sufficiently to allow for effective removal of hydrocarbon vapors, the system remained in operation, since 15 April 2008, to address the persistent LNAPL detected in areas of the site. LNAPL detections have since decreased to the point where the system was deactivated on 29 July 2010. It should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen. This will allow for effective removal of hydrocarbon vapors, as agreed by NYSDEC, or until system modifications are completed to provide additional expose screen for vapor recovery.

4.4.1.3 Area 3805 - System C

Area 3805 System C (**Figure 2-8**) runs Lines 1 and 2. The MPE treatment system operated for 87 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 87 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	4	91	4
Operational downtime	0	87	0
Unscheduled downtime	0	87	0
Total unexpected downtime	0	87	0

A detailed breakdown of MPE system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/15/11	Scheduled	Off for MIP work

4.4.1.4 Area 1995 - System D

Area 1995 System D (**Figure 2-9**) is comprised of Lines 12 and 13. The SVE system was deactivated on 6 August 2008 due to an internal leak in the SVE blower.

4.4.1.5 Performance Monitoring

Daily performance monitoring and O&M activities were conducted on the Area 3805 and 1995 MPE systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of vacuum extraction rates from the recovery wells to maximize system performance and effectiveness.

Extraction vacuum and flow rates on the MPE system and select well heads were recorded during the weekly site visits, or as weather conditions permitted. If the flow rate required adjustment, the new flow rate was recorded. In addition, extracted soil vapor concentrations and airflow rates after the vacuum pump were monitored and recorded daily.

4.4.2 Aquifer Air Sparging Systems

The AAS systems were operated during the monitoring period to augment the MPE/SVE systems in areas where separate-phase product was not present.

4.4.2.1 Area 3805 - System A

Although the system A blower has experienced mechanical problems and subsequently repaired, the AAS lines for the system were connected to the system B blower and treatment was applied to the area in conjunction with the B uptime.

4.4.2.2 Area 3805 - System B

System B equipment operated during this quarter using 32 AAS wells, plus the additional 17 AAS wells from system A. The AAS treatment system operated for 86 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 87 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	4	91	4
Operational downtime	0	87	0
Unscheduled downtime	0	87	0
Total unexpected downtime	0	87	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/15/11	Scheduled	Off for MIP work

4.4.2.3 Area 3805 - System C

The AAS treatment system operated for 87 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 87 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	4	91	4
Operational downtime	0	87	0
Unscheduled downtime	0	87	0
Total unexpected downtime	0	87	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/15/11	Scheduled	Off for MIP work

4.4.2.4 Area 1995 - System D

The AAS treatment system operated for 87 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 87 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	4	91	4
Operational downtime	0	87	0
Unscheduled downtime	0	87	0
Total unexpected downtime	0	87	0

A detailed breakdown of AAS system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/15/11	Scheduled	Off for MIP work

4.4.2.5 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the Area 3805 AAS systems. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates to sparge wells to maximize system performance and effectiveness.

Air injection pressure and flow rates were recorded during the daily site visits. If flow rates and injection pressures required adjustment, the new flow rate and/or pressure was recorded. In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

4.5 Army Air Force Exchange Service Station (Building P-2140)

4.5.1 Dual-Phase Extraction System

4.5.1.1 System Operation

While waiting to take delivery on a new ozone trailer, the AAFES Station (Building P-2140) DPE system (**Figure 2-10**) operated for 88 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 88 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	3	91	3
Operational downtime	0	88	0
Unscheduled downtime	0	88	0
Total unexpected downtime	0	88	0

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/14/11	Scheduled	Off for MIP work

4.5.1.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) DPE treatment system. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates for the extraction and air sparging wells to maximize system performance and effectiveness. The locations of these wells/piezometers are depicted on **Figure 2-10**.

Extraction pressure and flow rates at the DPE system and well heads were recorded during the weekly site visits. If the flow rate required adjustment, the new flow rate was recorded. The extraction airflow rate, after the vacuum pump, was monitored weekly from a pitot tube installed on the extraction line. In addition, volatile organic compound (VOC) concentrations were monitored and recorded weekly.

4.5.2 Aquifer Air Sparging System

The AAS system was operated during the monitoring period to augment the DPE/SVE systems in areas where separate-phase product was not present. Typically, the system was operated using all 16 AAS wells (2140-AAS1 through 2140-AAS16).

4.5.2.1 System Operation

The AAFES Station (Building P-2140) AAS treatment system operated for 88 days between 1 November 2011 and 31 January 2012 as derived from the system's operation hour meter. Based on the 88 days of potential operating time (excludes scheduled downtime), the system achieved 100 percent uptime during this monitoring period. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	3	91	3
Operational downtime	0	88	0
Unscheduled downtime	0	88	0
Total unexpected downtime	0	88	0

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
12/12/11	12/14/11	Scheduled	Off for MIP work

4.5.2.2 Performance Monitoring

Daily performance monitoring and O&M activities were conducted at the AAFES Station (Building P-2140) AAS treatment system. Scheduled activities performed during this period included inspection and service of system components and adjustment of airflow rates for the extraction and air sparging wells to maximize system performance and effectiveness.

Airflow rates and sparge pressures for the AAS system were recorded during each site visit. If flow rates and pressures required adjustment, the new flow and pressure readings were recorded. AAS system pressures at the blower, blower temperature, and run clock hours were also recorded. Plexus technicians also checked the blower and air lines, drained moisture from the header lines, and added or changed blower oil as required throughout the monitoring period.

In addition, DO, ORP, and PID readings were collected on a monthly basis from select wells, beginning in December 2008, to help analyze system effectiveness.

4.5.3 Aquifer Air Sparging with Ozone System– Off-site Wetland Protection

The AAS with ozone treatment system was installed in Fall 2000, and began operation on 14 December 2000. Analytical results from the groundwater samples collected in Fall 2008 indicated that total BTEX concentrations in groundwater had been reduced below NYSDEC standards. Therefore, the AAS with ozone treatment system was shut down on 23 March 2009 following NYSDEC concurrence and approval. Subsequently, the AAS with ozone treatment was modified into a mobile treatment unit.

4.5.4 Mobile Ozone Aquifer Air Sparging System

4.5.4.1 System Operation

Continued elevated dissolved petroleum hydrocarbon concentrations within the groundwater indicated that additional active remedial treatment was necessary upgradient of the former USTs. A trailer mounted ozone treatment unit was mobilized and began operation on 22 December 2009, injecting ozone via seven injection points. Mechanical faults and failures with the ozone generator, air compressor and other associated components resulted in demobilizing the mobile ozone trailer in September 2011. Realizing the benefits of the continuous ozone injection, Plexus began the process to acquire a new mobile unit and intends to take delivery in March 2012.

The AAFES Station (Building P-2140) ozone injection system did not operate between 1 November 2011 and 31 January 2012 derived from the system's operation hour meter. Based on the 90 days of potential operating time (excludes scheduled downtime), the system did not operate during this monitoring period due to a compressor failure. System downtime is summarized in the following table:

Reason	Days Down	Total Days	Percentage
Scheduled	0	91	0
Operational downtime	91	91	100
Unscheduled downtime	0	91	0
Total unexpected downtime	91	91	100

A detailed breakdown of system downtime during the period is provided below:

Shut Down	Restarted	Reason	Description
8/1/11	NA	Operational	Off due to compressor failure, moved off site

4.5.4.2 Performance Monitoring

The unit was not active at the site during the reporting period, therefore there was no performance monitoring activity.

5.0 RESULTS

In general, an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. A study of enhanced bioremediation of PAH contaminated soil reported larger increases in oxygen consumption in contaminated soil biostimulated by nutrient solutions. Therefore, the resulting fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen.

5.1 Area 1295

Ozone treatment of residual hydrocarbon impact within the subsurface at Area 1295 was initiated on 22 July 2010 and continued to 6 December 2010, when the system was deactivated due to weather related conditions. The system was restarted as of April 12, 2011. Ozone sparge pressure and flows were initially adjusted to the proposed parameters of 12 pounds per square inch (psi) and 5 cubic feet per minute (cfm), but system loading on the portable generator required minor adjustments to both the pressure and flows (5 psi and 3 cfm, respectively) to allow continuous power for the system to operate the daily cycle of the injection points. Pressures and flows were recorded daily to evaluate the effects on the groundwater and determine future application parameters (**Appendix A, Table A-1**).

Initially, due to the proximity of the monitoring network to the ozone injection wells and the potential to damage field equipment with the ozone, no wells were monitored monthly for DO, ORP, conductivity, and PID, but Plexus implemented a monitoring program at 1295-MW30 beginning in March 2011 to capture the monthly information. **Table 3-1** presents the fluctuating results of the DO, ORP and conductivity concentrations which are indicative that delivery of ozone is oxidizing contaminants and providing additional oxygen to augment biodegradation. Additionally, a five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select monitoring injection points to enhance bacterial growth and stimulate biodegradation. Groundwater analytical results from samples collected from 1295-MW30 during the August 2011 Sampling Event, indicate a total BTEX concentration of 4,801.7 micrograms per liter ($\mu\text{g/l}$) which is an increase of dissolved contaminants from 3,820.3 $\mu\text{g/l}$ recorded from the Fall 2010 event (**Figure 2-11**).

5.2 Area 1595

5.2.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 1.1 feet during the monitoring period. LNAPL was observed at measurable thicknesses during the monitoring period, primarily at extraction well 1595 4-4S (**Appendix A, Table A-2** and **Appendix B, Table B-1**). The total LNAPL recovered for the quarter was approximately 0.03 gallons. If LNAPL is encountered during site visits, removal is conducted by bailer or the extraction system.

5.2.2 Soil Vapor Extraction/Multi-Phase Extraction

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 692.4 cfm and 3.0 parts per million (ppm), respectively, during the monitoring period (**Appendix B, Table B-2**). These concentrations equate to the removal of 1.99 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-**

2). LNAPL recharge test results combined with the low hydrocarbon vapor recovery, as indicated in the daily system effluent vapor records (**Appendix B, Table B-2**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-1**.

5.2.3 Groundwater Treatment

Groundwater was not extracted through the SVE wells during the monitoring period (**Table 3-3**). The extracted groundwater has been historically treated by the air stripper system and discharged to the publicly-owned treatment works (POTW).

5.2.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-3**. The active SVE/AAS system was deactivated 13 December 2011 for a five month nutrient application trial to evaluate the sole benefit of a mixture of nitrogen: phosphorous: potassium to enhance bacterial growth and stimulate biodegradation.

The Fall 2011 Groundwater Sampling Event results illustrated a contaminant reduction within the plume from the previous sampling event. For example, 1595-PZ12 yielded a total BTEX concentration of 42.5 µg/l compared to the Spring 2011 results of 101.64 µg/l (**Figure 2-12**).

5.3 Area 1795

5.3.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 0.76 feet during the monitoring period. There was no LNAPL observed during the weekly O&M visits. (**Appendix C, Table C-1**). If LNAPL is encountered during site visits, it is removed by bailer or the extraction system.

5.3.2 Soil Vapor Extraction/Multi-Phase Extraction

5.3.2.1 Area 1795 - System A

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 419.8 cfm and 153.7 ppm, respectively, during the monitoring period (**Appendix C, Table C-2**). These concentrations equate to the removal of 136.95 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-5**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System A are represented in **Figure 3-2A**. In December 2009, it was determined that one extraction blower had the capacity to efficiently remove vapors from the hot-spot treatment at the site. Therefore, Legs 3 and 4 from 1795 System B were tied into 1795 System A and System B was deactivated and used as a back-up unit.

5.3.2.2 Area 1795 - System B

As described above, Legs 3 and 4 from this System were connected to System A in December 2009 and System B was shutdown. Therefore, no readings have been collected during this quarter. The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 3-2B**.

5.3.2.3 Area 1795 - System C

System C was started in January 2008 and was in the start-up/shake-out process until Plexus acquired the system on 7 July 2008. The purpose of the system is to keep the area downgradient of the plume oxygen enriched to promote bioremediation (**Appendix C, Table C-4**).

5.3.3 Groundwater Treatment

5.3.3.1 Area 1795 - System A

Groundwater was not extracted through the SVE wells during the monitoring period (**Table 3-6**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.3.3.2 Area 1795 - System B

System B did not operate during the reporting period, therefore, groundwater was not extracted or processed for discharge via this unit (**Table 3-6**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.3.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-7**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation.

Fall 2011 groundwater sample analytical results indicate a total BTEX contaminant decrease at the “hot-spot” monitoring well, MWS7, to 7,291 µg/l from a previous concentration in Spring 2011 of 10,372 µg/l. The analytical results indicate that the areal limits of the plume have decreased and what once was a large continuous plume is currently 2 smaller plumes containing individual “hot-spots” (MWS3 and MWS7) with lower dissolved phase concentrations from the initial Fall 2008 concentrations (**Figure 2-13**).

Hydrocarbon concentrations in the extracted vapor ranged from 79.3 ppm to 267.6 ppm during the reporting period as illustrated in **Appendix C, Table C-2**. Decreasing groundwater elevation, and, vapor monitoring at system wells and monitoring wells within the treatment area, continue to allow the system modifications to effectively address “hot-spots” and mitigate the potential for plume migration. The system operations should continue with the current flexibility.

5.4 Areas 3805 and 1995

5.4.1 Light Non-Aqueous Phase Liquid

In general, the water table decreased approximately 0.49 feet during the monitoring period. LNAPL was observed at measurable thicknesses during the monitoring period, primarily at extraction well 3805-PZ-10-2 (**Appendix A, Table A-2** and **Appendix D, Table D-1**). The total LNAPL recovered for the quarter was approximately 0.27 gallons. If LNAPL is encountered during gauging events, it is removed by bailer or the extraction system.

5.4.2 Soil Vapor Extraction/Multi-Phase Extraction

5.4.2.1 Area 3805 - System A

The SVE portions of System A was deactivated and should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen or system modification installed to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-2**). There was no removal of measurable gasoline equivalent liquid for this reporting period. (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System A are represented in **Figure 3-3A**.

5.4.2.2 Area 3805 - System B

The SVE portions of System A was deactivated and should remain off until monthly gauging indicates that the groundwater table has dropped sufficiently to expose five feet of well screen or system modification installed to allow for effective removal of hydrocarbon vapors (**Appendix D, Table D-3**). There was no removal of measurable gasoline equivalent liquid for this reporting period (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System B are represented in **Figure 3-3B**.

5.4.2.3 Area 3805 - System C

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 38.4 cfm and 0.01 ppm, respectively, during the monitoring period (**Appendix D, Table D-4**). These concentrations equate to the removal of 0.01 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System C are represented in **Figure 3-3C**.

5.4.2.4 Area 1995 - System D

The combined extraction flow rate (including dilution air) could not be calculated due to the system being shutdown in August 2008 subsequent to the detection of an internal leak in the soil vapor extraction blower. With concurrence from NYSDEC, the system remained inactive due to historic lack of vapor recovery (**Appendix D, Table D-5**). As a result, there was no vapor recovery or removal of measurable gasoline equivalent liquid this quarter (**Table 3-8**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for System D are represented in **Figure 3-3D**.

5.4.3 Groundwater Treatment

5.4.3.1 Area 3805 - System A

There was no extracted groundwater treated by System A during the monitoring period (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.4.3.2 Area 3805 - System B

There was no extracted groundwater treated by System B during the monitoring period (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.4.3.3 Area 3805 - System C

A total of 2,191 gallons of groundwater were extracted through System C at an average flow rate of 0.05 gallons per minute (gpm) during the monitoring period (**Table 3-9**). The extracted groundwater was treated by the air stripper system and discharged to the POTW.

5.4.3.4 Area 1995 - System D

The extraction unit on System D was inactive during the reporting period. Therefore, groundwater was not extracted via the system (**Table 3-9**). The extracted groundwater has been historically treated by the air stripper system and discharged to the POTW.

5.4.4 System Effectiveness Monitoring

As mentioned previously, the extraction systems within this area have been deactivated or ineffective since April 2009. As a result, the primary remediation units are the AAS units and in an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. A summary of the data is presented in **Table 3-10**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation.

Although the Fall 2010 Groundwater Sampling Event results, presented in the 2010 Draft Annual Basewide Monitoring Report, dated March 2011, indicate a total BTEX contaminant reduction in several monitoring locations within the area (i.e., MWS8 from 1,205.2 µg/l to 982.5 µg/l, MWS11 from 12,789 µg/l to 1,991.5 µg/l, PZ13S from 7,698 µg/l to 2,215 µg/l and PZ14 from 33,870 µg/l to 29,700 µg/l), fluctuating concentrations across the treatment area indicate a need to reevaluate the current system configuration and modify existing infrastructure to target “hot-spots”. Fall 2011 Groundwater Sampling Event result indicated an increase in BTEX contaminants at MWS8 up to 8,233 µg/l and MWS11 up to 15,172.5 µg/l (**Figure 2-14**).

5.5 Army Air Force Exchange Service Station (Building P-2140)

5.5.1 Light Non-Aqueous Phase Liquids

In general, the water table decreased approximately 0.94 feet during the monitoring period LNAPL was not observed in any of the extraction wells during the monitoring period (**Appendix E, Table E-1**). If LNAPL are encountered during gauging events, it is removed by bailer or the extraction system.

5.5.2 Soil Vapor Extraction/Dual Phase Extraction

Combined extraction flow rates (including dilution air) and vacuum pump discharge concentrations averaged 464.5 cfm and 0.3 ppm, respectively, during the monitoring period (**Appendix E, Table E-2**). These concentrations equate to the removal of 0.28 gallons of gasoline equivalent from the vapor phase during the monitoring period (**Table 3-11**). The trends in vacuum pump discharge concentration and cumulative contaminant recovery for the system are represented in **Figure 3-4**.

5.5.3 Groundwater Treatment

The extraction system was optimized to reduce the volume of groundwater extraction. As a result, groundwater was not recovered while organic vapors were removed during the monitoring

period (**Table 3-12**). The extracted groundwater have been historically treated by the air stripper system and discharged to the POTW.

5.5.4 System Effectiveness Monitoring

In an effort to further analyze system effectiveness, select wells were chosen for monthly monitoring of DO, ORP and PID readings. In addition, temperature, conductivity and pH readings were collected. Results illustrate a fluctuation in values from monitoring event to monitoring event indicating both a delivery of oxygen and an active microbial mass consuming oxygen. A summary of the data is presented in **Table 3-13**. A five month nutrient application trial began in December 2011, in which a mixture of nitrogen: phosphorous: potassium was introduced into the subsurface via select AAS injection points to enhance bacterial growth and stimulate biodegradation

5.5.5 Source Area Ozone Treatment

Ozone treatment of residual hydrocarbon impact within the subsurface at the AAFES Station (Building P-2140) was deactivated in August 2011, and remained off through the duration of the reporting period. A new ozone treatment system is scheduled to be delivered and operational onsite in March 2012.

The Fall 2011 Groundwater Sampling Event results indicate a total BTEX contaminant reduction in several monitoring locations within the area. Review of the historical data from monitoring well, MW09 indicates with the continued BTEX results being reported below laboratory detection limits that the contaminant impact continues to be contained within the boundaries of the facility. In addition to the reduction in total plume concentrations, the secondary plume in the area of the former ozone treatment building south of the facility boundaries has reported analytical result below regulatory limits (**Figure 2-15**).

6.0 SUMMARY AND DISCUSSION

System operation and performance monitoring activities were completed at each site by Plexus during the reporting period (November 2011-January 2012). A list of the additional actions performed during site visits, beyond routine data collection, is presented in **Appendix F**. Prior to 7 May 2008, these activities were being performed by others. The majority of these items included maintenance and repairs to the systems to address changing weather and subsurface conditions.

6.1 Area 1295

Persistent dissolved petroleum hydrocarbon concentrations in the groundwater indicated that additional active remedial strategy be implemented. With NYSDEC concurrence and approval in July 2009, Plexus initiated hot-spot treatment pilot tests with the mobile ozone treatment system which was previously operated at the wetland area downgradient of the AAFES service station. The mobile ozone treatment system began operation at Area 1295 on 22 July 2010 and continued through 6 December 2010, when it was deactivated due to inclement weather conditions. The system was reactivated on 12 April 2011 and contaminant concentrations continue to decrease. A continuous electrical power supply was installed in February 2012, which will allow cycling of the ozone system to continue the contaminant reduction during inclement weather. A five month nutrient application of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active ozone injection. The nutrient application trial began in December 2011 and will conclude in April 2012, prior to the basewide sampling event. An interim sampling event will be conducted in February 2012 to evaluate the effects of the nutrient application trial.

6.2 Area 1595

The AAS system operated 100 percent of the time during the monitoring period, excluding scheduled downtime. The majority of system unscheduled downtime was attributed power outages, collection of static groundwater elevations, DO/ORP/PID data, and scheduled maintenance (i.e., oil changes, belts, filters, etc.). The SVE performance monitoring data indicate that the system continues to influence the source area.

Approximately 0.03 gallons of LNAPL were recovered during the monitoring period. When LNAPL was encountered, removal was conducted by bailer or the extraction system

System data collected from daily monitoring following scheduled sampling events has indicated that the volatility of the remaining contaminants is low and subsequent groundwater data has indicated that the LNAPL encountered has not dissociated into the dissolved phase and impacted the groundwater where encountered. Weekly and monthly DO, ORP, pH and temperature data indicates that the subsurface is conducive to biological degradation. A nutrient application of a mixture of nitrogen: phosphorus: potassium was approved and initiated beginning January 2011 through March 2011. Concurrent with the nutrient application, the AAS continued to operate to provide an oxygen source to enhance bioremediation. Results from the nutrient application indicated a reduction in the dissolved BTEX plume and no detrimental effects from the addition of a nitrogen compound. A five month nutrient application trial of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active SVE/AAS systems. The nutrient application began in December 2011 and will conclude in April 2012, prior to the basewide sampling event. Additionally, an interim sampling event of selected monitoring wells will occur in February 2012 and will be used to evaluate the effects of the extended trial

6.3 Area 1795

SVE System A operated 100 percent of the time during the monitoring period, excluding scheduled downtime. The SVE portion of System B was shut down on 2 December 2009, at which time the associated legs were tied into System A. AAS Systems A, B, and C operated 100, 100, and 100 percent of the time during the monitoring period.

A combined total of approximately 136.95 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November 2011 through January 2012. A total of 1,369.29 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the SVE and AAS systems began in July 2008. An increase in extraction screen exposure has facilitated the increase in vapor phase recovery of contaminants. LNAPL was not encountered during the reporting period. Therefore, there was no LNAPL removed from the subsurface.

By changing the extraction leg vacuums and connections, thus isolating treatment to the contaminant “hot-spot”, Plexus was able to increase the gasoline equivalent recovery process and reduce the energy requirement. As a result, Plexus will continue to make adjustments to system operation during the next quarter to optimize soil vapor recovery and address “hot-spot” treatment. Removal rates are expected to continue to fluctuate based on the artificial and natural groundwater table elevation changes at the site, as well as contaminant reduction, and changes in extraction leg configuration to maximize vapor recovery. Additionally, Plexus will cycle between the operating systems to reduce mechanical wear and tear, and extend the longevity of the operating potential at the site. A five month nutrient application trial of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active SVE/AAS systems. The nutrient application began in December 2011 and will conclude in April 2012, prior to the basewide sampling event. Additionally, an interim sampling event of selected monitoring wells will occur in February 2012 and will be used to evaluate the effects of the extended trial.

6.4 Areas 3805 and 1995

SVE System C operated at 100 percent of the time during the monitoring period, excluding scheduled downtime. AAS Systems B, C, and D operated 100, 100, and 100 percent of the time during the monitoring period. Due to the elevated water table conditions observed during system evaluation activities (all SVE well screens were flooded), the SVE portion of System A is to remain off with NYSDEC concurrence. Groundwater elevation gauging is being conducted to determine when the system can be turned back on. The SVE portion of System A was deactivated from continuous operations in July 2010 as the result of insufficient screen exposure for the effective recovery of hydrocarbons. The AAS portion of System A was shut down on 18 June 2009 due to a bad bearing in the sparge blower. The sparge blower was repaired and based on the excess capacity of the blowers for Systems A and B, the System B blower continues to be connected to all the sparge points and operating within the design specifications while reducing the energy consumption requirements.

A combined total of approximately 0.01 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November 2011 through January 2012. A total of 5,664.23 gallons of gas equivalent (vapor phase) and 25 gallons of LNAPL have been removed from the subsurface since operation of the SVE and AAS systems began in October 2003. Approximately 0.27 gallons of LNAPL were recovered during the monitoring period. When LNAPL was encountered, removal was conducted by bailer or the extraction system.

As a result of extraction well screen saturation, Plexus is implementing operational parameters to reduce artificial mounding created by the remedial system, decrease groundwater recovery, and increase vapor recovery. In conjunction with the change in system operational parameters, and prior to the Fall 2011 Basewide Groundwater Sampling Event, Plexus has prepared and submitted for review an Extraction Well Modification Work Plan utilizing the historical design data from pilot tests conducted at the site with the intent to modify selected vertical extraction wells into horizontal extraction wells to facilitate activation of the extraction units and remove organic vapors generated from the in-situ air stripping of the AAS system. The intent of this work plan is to aggressively address the impacts within Area 3805 and mitigate contaminant migration, and modification activities are planned for March 2012.

The SVE portion of System D was shut down on 6 August 2008 due to an internal leak in the blower. The SVE portion of the system will remain off pending NYSDEC approval and because the system is being converted to biosparging only operation. Negligible recovery has been achieved using the SVE portion of the system since its inception in May 2004 and continued operation of the SVE system is unnecessary. The AAS system will continue to run at a reduced rate to enhance subsurface oxygen delivery and promote microbial growth, subsequently stimulating biochemical degradation of petroleum hydrocarbon constituents. System operations will be closely monitored and evaluated using groundwater quality results as a principal criterion. Field parameters such as ORP and DO concentrations have indicated that the system is delivering oxygen to the subsurface and augmenting biodegradation. Plexus anticipates that this optimization approach will appreciably reduce operating costs while continuing to contribute to biochemical degradation of petroleum constituents. Results from the current groundwater monitoring will be evaluated and, alternative remedial approaches will be considered for Area 3805 System D, if applicable. A five month nutrient application of a mixture of nitrogen: phosphorus: potassium was approved by NYSDEC in conjunction with active systems. The nutrient application began in December 2011 and will conclude in April 2012, prior to the basewide sampling event.

6.5 Army Air Force Exchange Service Station (Building P-2140)

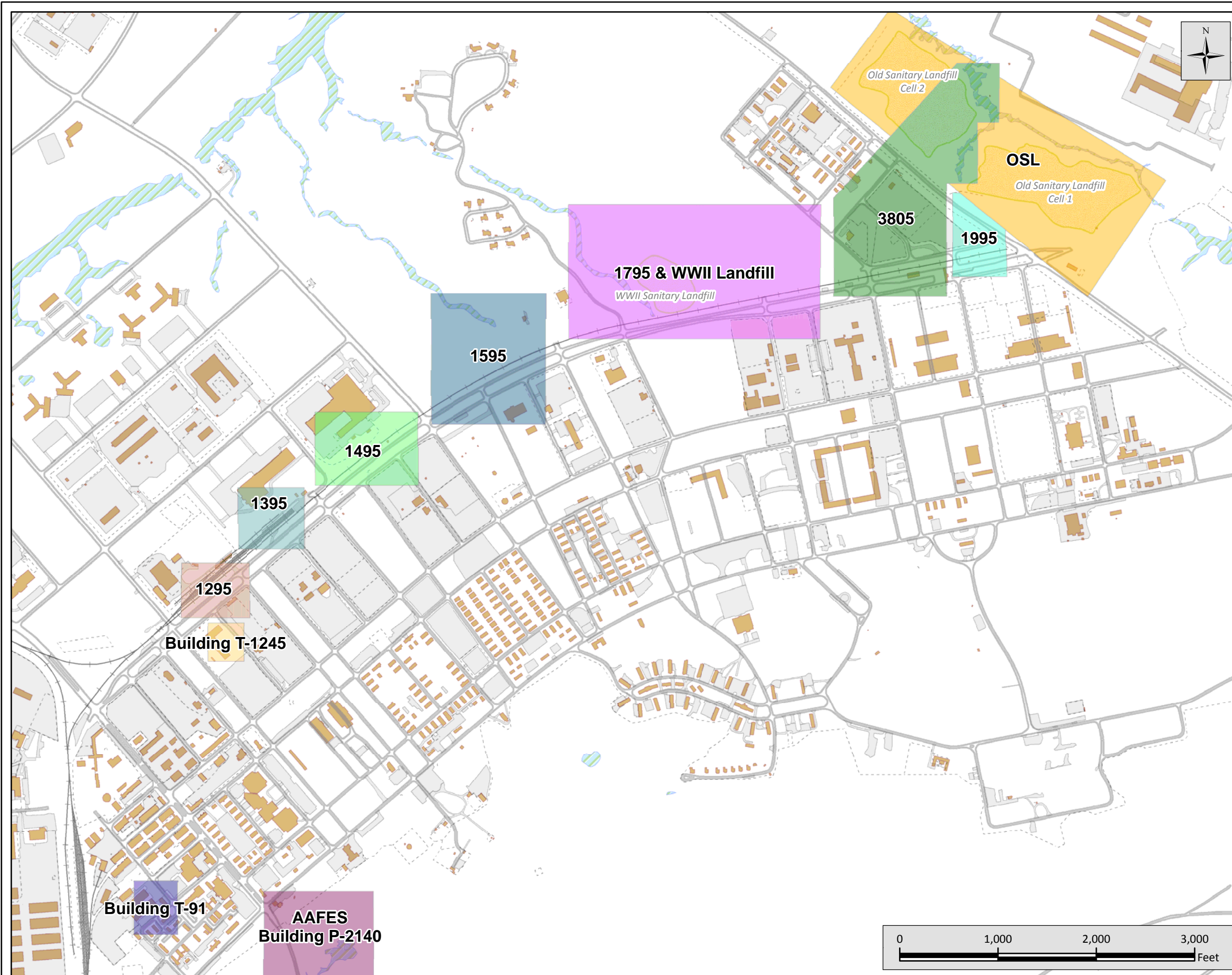
The DPE System operated 100 percent of the time during the monitoring period, excluding scheduled downtime. The AAS Systems operated 100 percent of the time during the monitoring period. A combined total of approximately 0.28 gallons of gasoline equivalent (vapor phase) were recovered from the subsurface from November through January 2012. A total of 2,400.68 gallons of gas equivalent (vapor phase) have been removed from the subsurface since operation of the DPE system began in February 2002. No LNAPL was observed in the extraction wells during gauging events.

The ozone treatment unit was not operational during the reporting period and subsequently removed from the site. This was primarily due to an air compressor failure and a booster pump failure (section 2.5.4.1) The unit delivered ozone via 7 injection points installed upgradient of the former USTs and near the fuel dispensers. Analytical data collected during the Fall 2010 Groundwater Sampling Event combined with field data collection of ORP, DO, pH and PID from selected monitoring points has indicated that the ozone delivery unit is reducing the contaminant concentrations and providing oxygen to the subsurface to augment biodegradation. Dissolved contaminants continue to decrease in several monitoring wells at the site and Plexus intends to acquire a replacement mobile ozone injection trailer and continue application of ozone at the site. A five month nutrient application of a mixture of nitrogen: phosphorus: potassium

was approved by NYSDEC in conjunction with active systems. The nutrient application began in December 2011 and will conclude in April 2012, prior to the basewide sampling event.

The mobile ozone treatment system is scheduled to be installed, and operational at the site in March 2012.

FIGURES



Legend

Site Name

- 1245
- 1295
- 1395
- 1495
- 1595
- 1795 & WWII Landfill
- 1995
- AAFES, Building P-2140
- 3805
- OSL
- T91

Feature Legend

- Fence Line
- Rail Road
- Paved Road
- Landfill
- Wetlands
- Building
- Paved Area

Abbreviation Key:
 AAFES - Army Air Force Exchange Service
 OSL - Old Sanitary Landfill

25 years of excellence

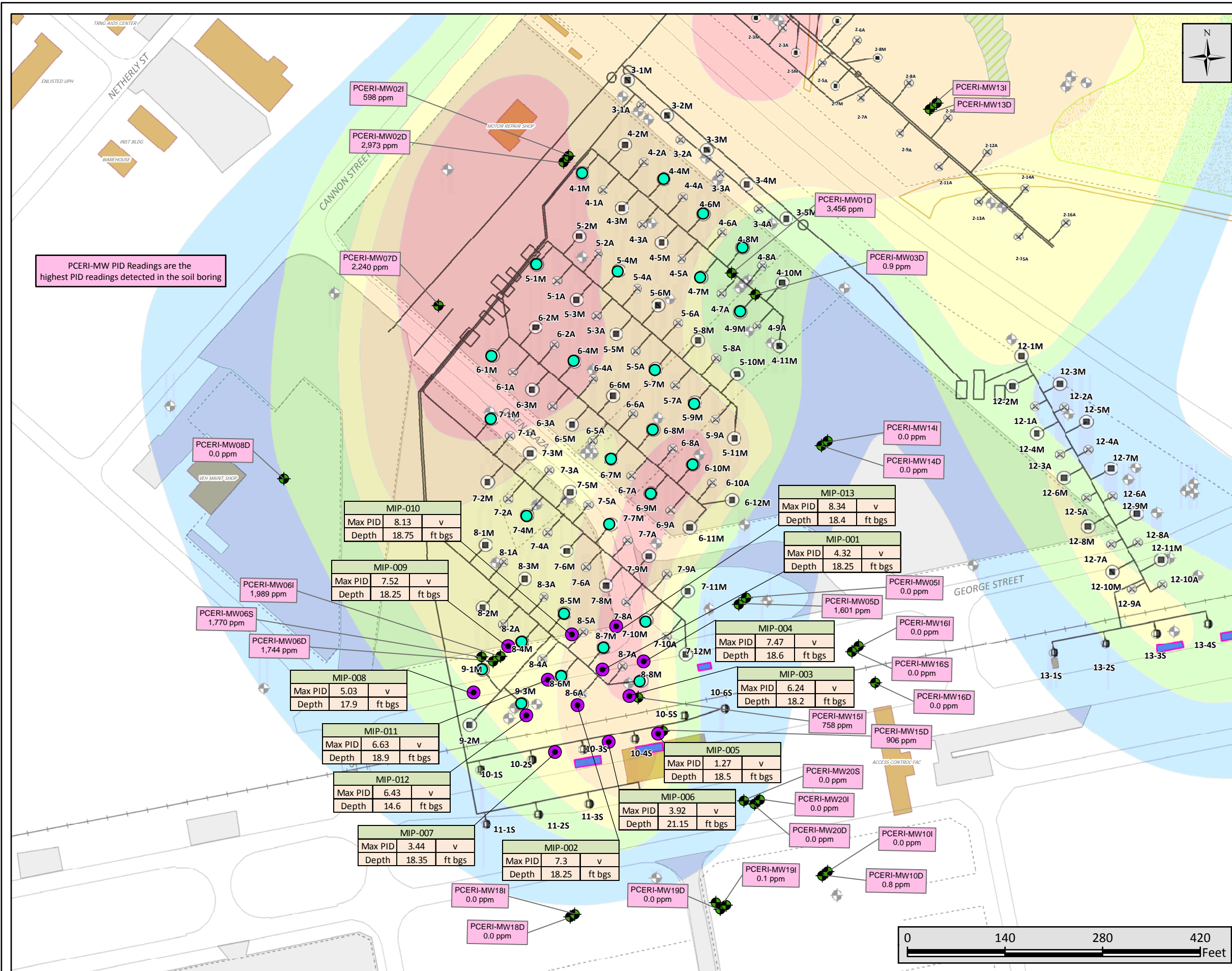
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FIGURE 1-1

Site Location Map

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 Operations and Maintenance
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 and Army Air Force Exchange Service Station
 Fort Drum, New York



Legend

- Proposed Horizontal SVE Well Modification Locations
- MIP Locations
- PCERI MW/Boring Locations
- Air Sparge Wells
- Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- Monitoring Wells
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

BTEX Fall 2010 Plume

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L
- 10,000 µg/L

Abbreviation Key:
 PID = Photo-ionic Detector
 MIP = Membrane Interface Probe
 V = Volts
 ppm = parts per million
 ft bgs = feet below ground surface
 µg/L = micrograms per liter
 BTEX = Benzene, Toluene, Ethylbenzene, Xylene
 UST = Underground Storage Tank
 MW = Monitoring Well

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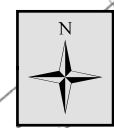
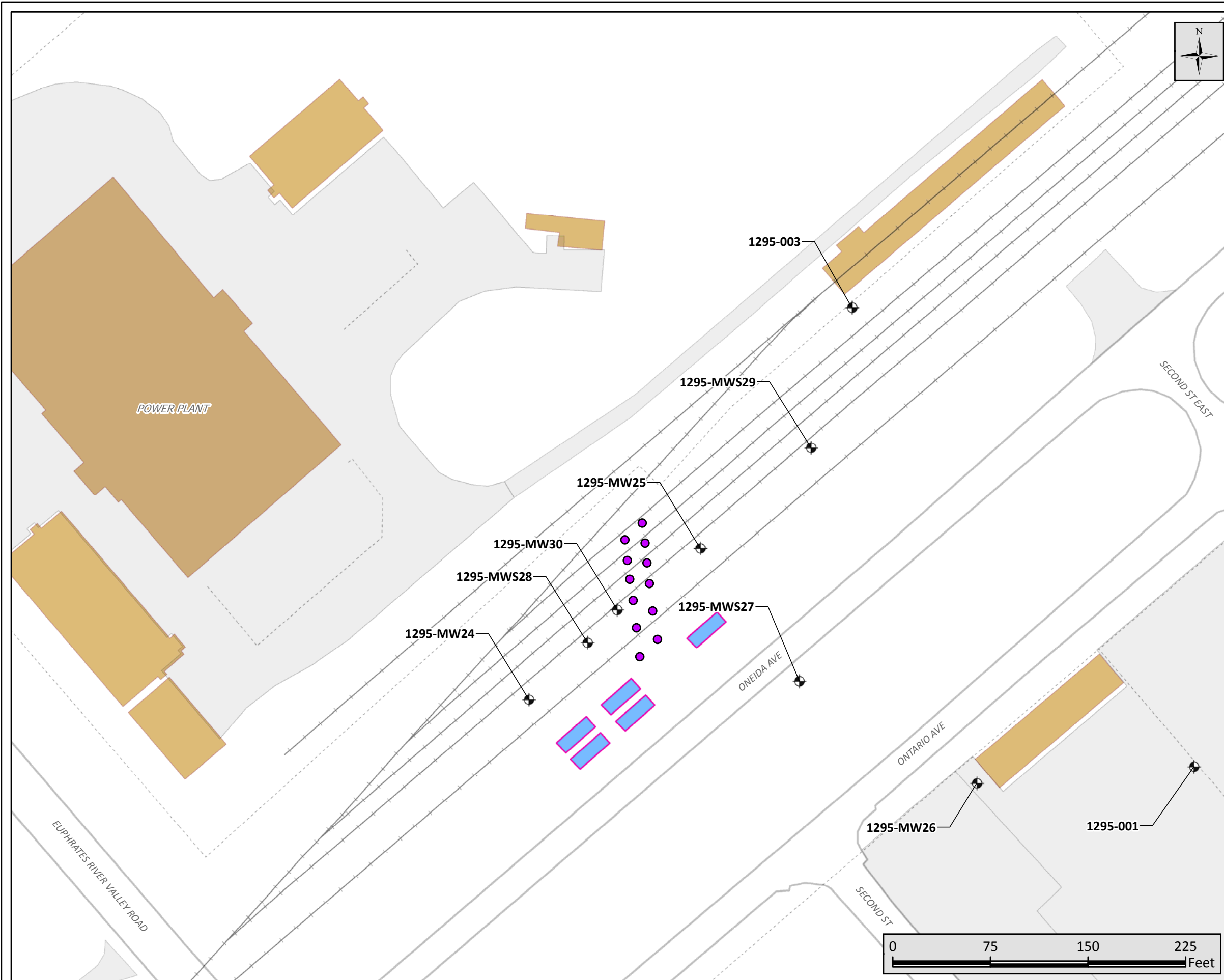
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FIGURE 2-1

PID Readings (PCE and MIP Work)

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Legend

- Ozone Injection Points
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- + - Rail Road
- Paved Road
- Building
- Paved Area

Abbreviation Key:
UST = Underground Storage Tank

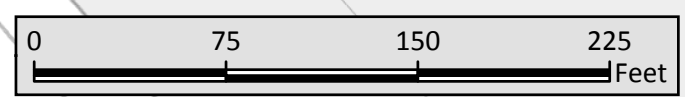
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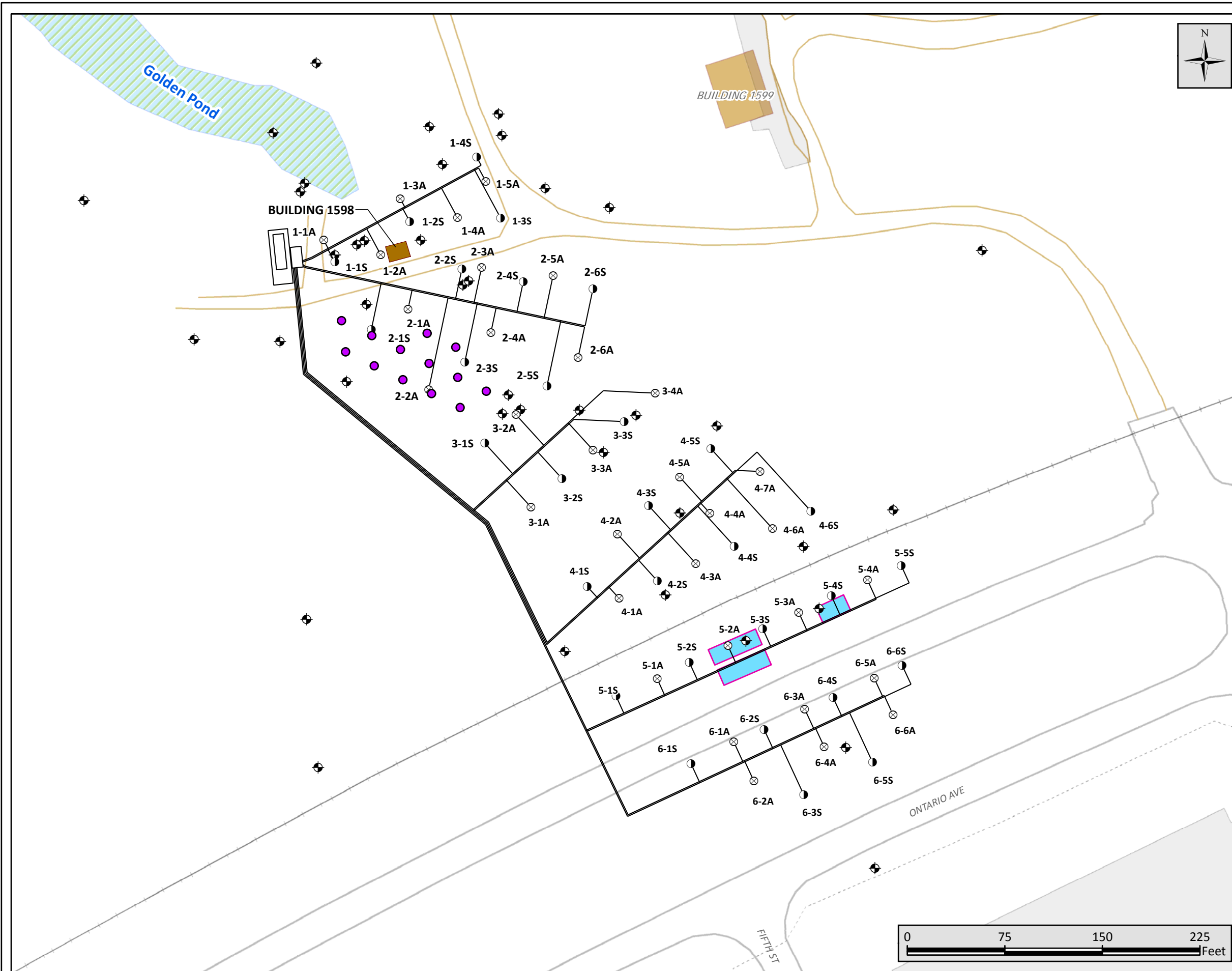
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FIGURE 2-2

Area 1295, Gasoline Alley

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Legend

- Ozone Injection Points
- ⊗ Air Sparge Wells
- ⊖ Soil-Vapor Extraction Wells
- System Pipes
- ⊕ Monitoring Wells
- Former UST
- 1595 System Shed
- - - Fence Line
- Rail Road
- Unpaved Road
- Paved Road
- ▨ Wetlands
- Building
- Paving

Abbreviation Key:
UST = Underground Storage Tank

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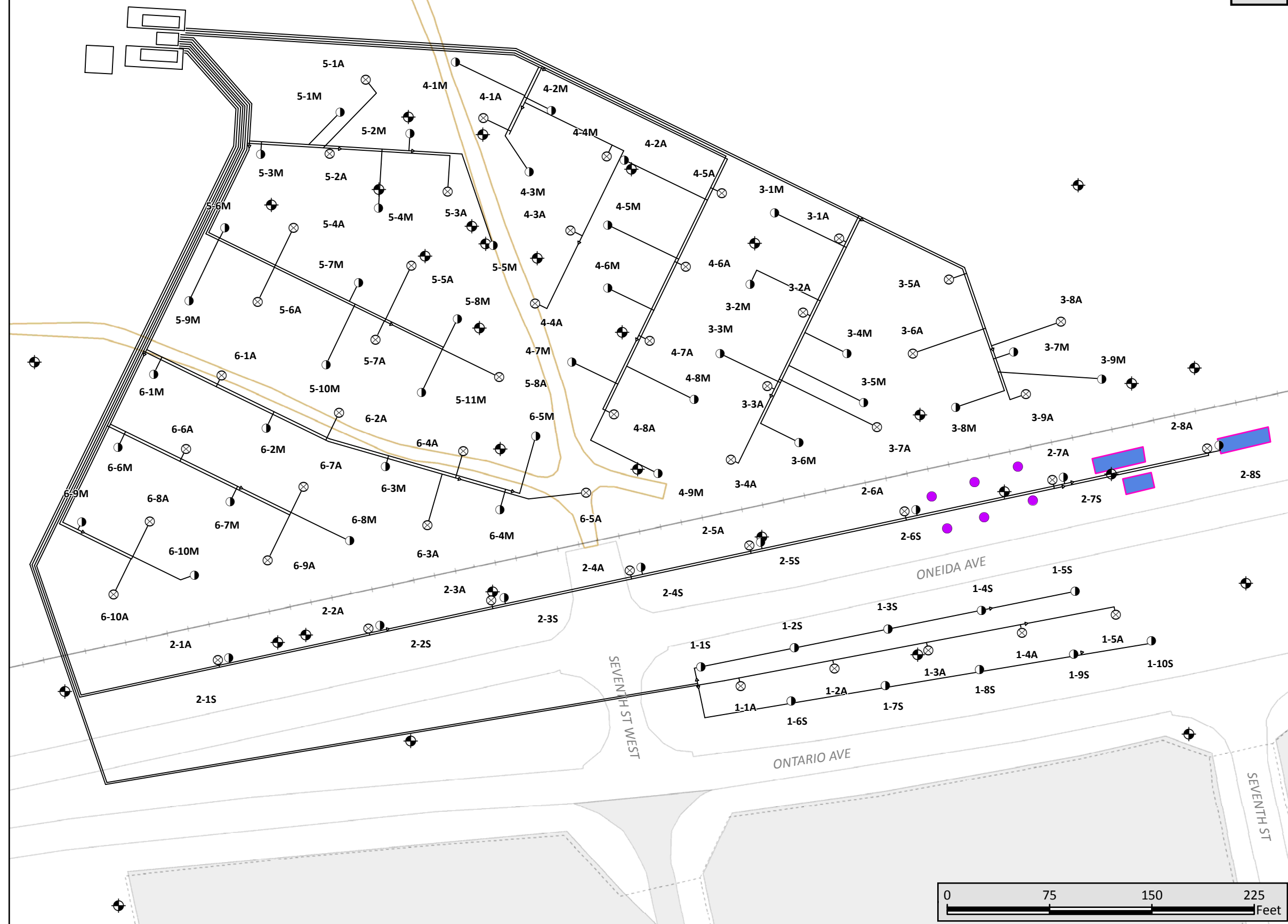
FIGURE 2-3

Area 1595

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Operations and Maintenance
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Fort Drum, New York



System Buildings



Legend

- Ozone Injection Points
- ⊗ Airsparge Wells
- Soil-vapor Extraction Wells
- System Pipes
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- +— Rail Road
- Paved Roadline
- Unpaved Roadline
- Landfill Site
- Wetlands
- Building
- Paved Area

Abbreviation Key:
UST = Underground Storage Tank

PLEXUS
scientific

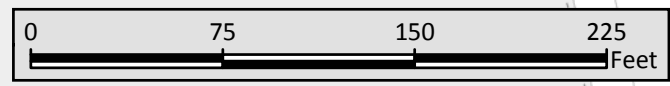
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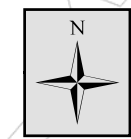
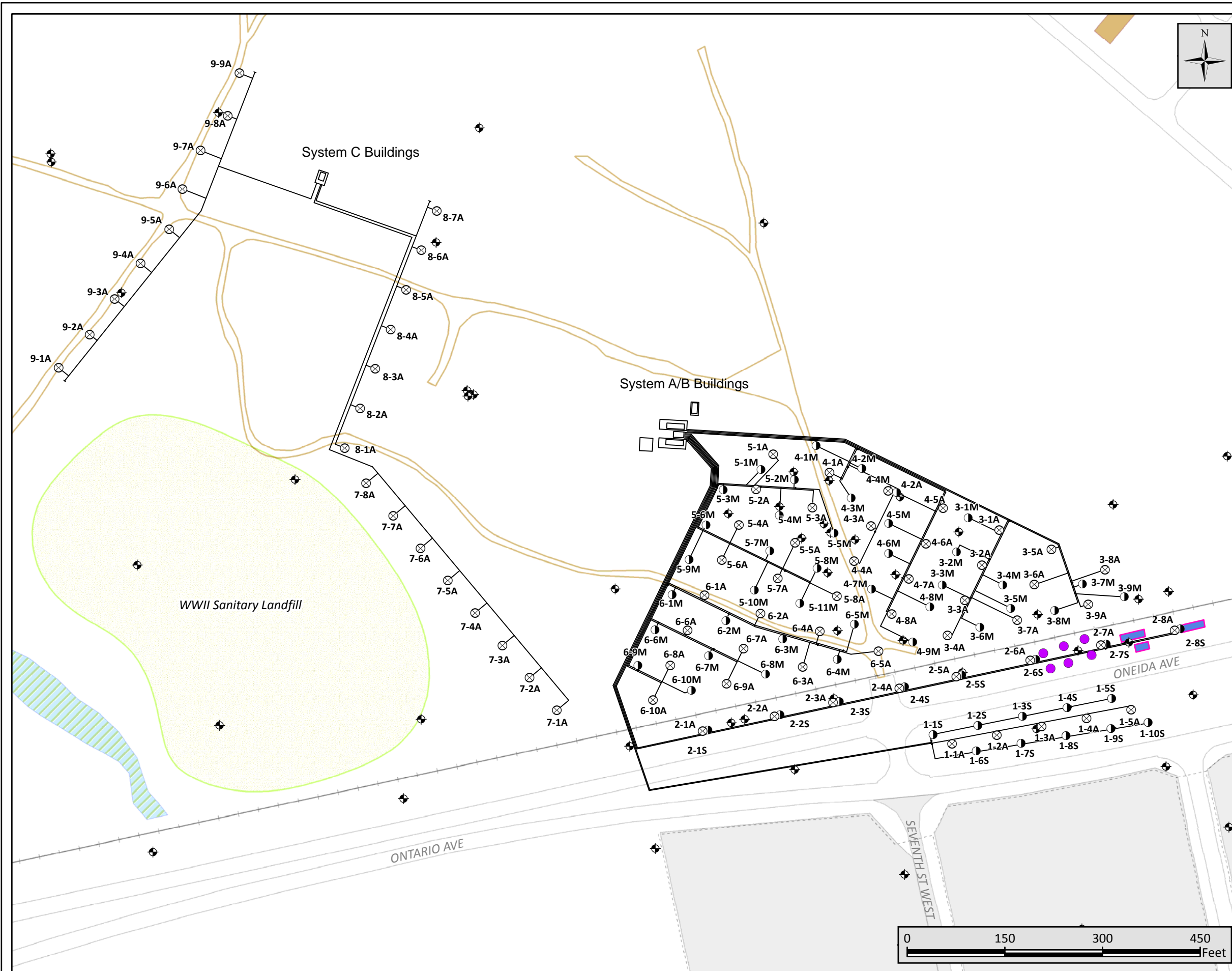
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FIGURE 2-4

**Area 1795
MPE/SVE/AS Treatment System Plan
Gasoline Alley**

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Operations and Maintenance
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Legend

- Ozone Injection Points
- ⊗ Airsparge Wells
- ⦿ Soil-vapor Extraction Wells
- System Pipes
- ◆ Monitoring Wells
- Former UST
- - - Fence Line
- Rail Road
- Paved Roadline
- Unpaved Roadline
- Landfill Site
- ▨ Wetlands
- Building
- Paved Area

Abbreviation Key:
UST = Underground Storage Tank

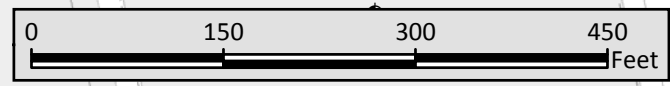

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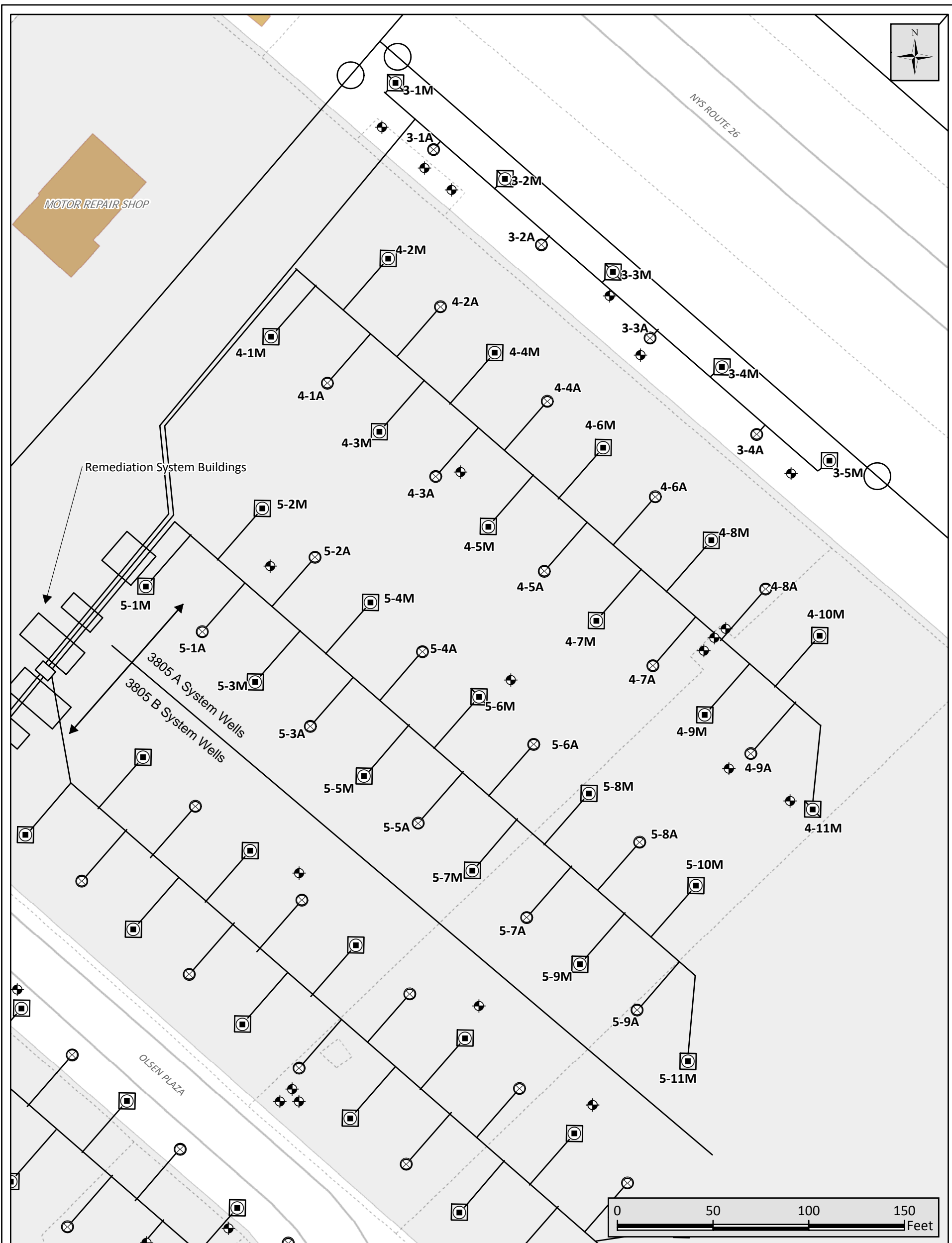
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FIGURE 2-5

**Area 1795
AAS (Systems A,B, and C)
Gasoline Alley**

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Legend

- ⊗ Air Sparge Wells
- ⊠ Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area



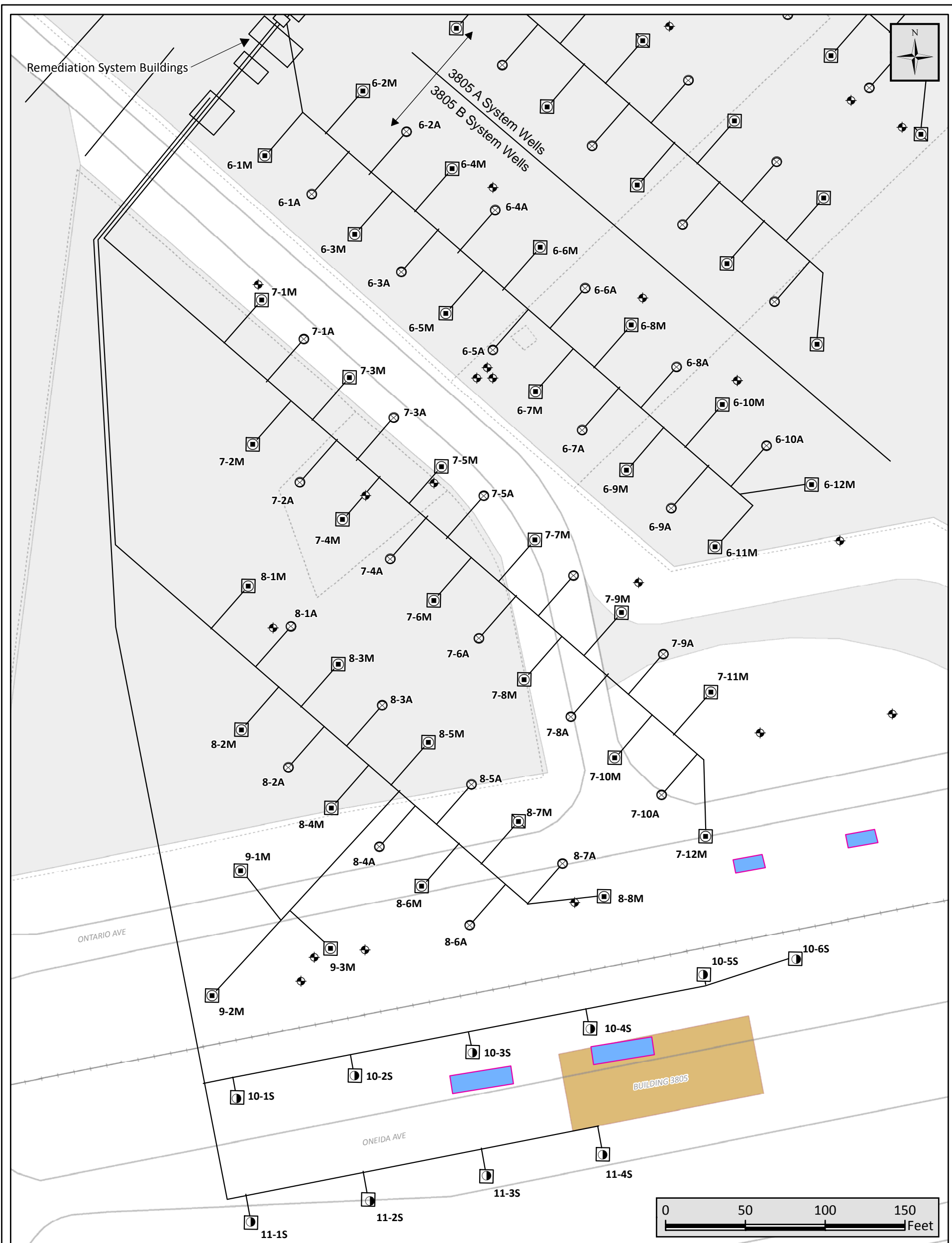
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FIGURE 2-6


Area 3805 A, Gasoline Alley

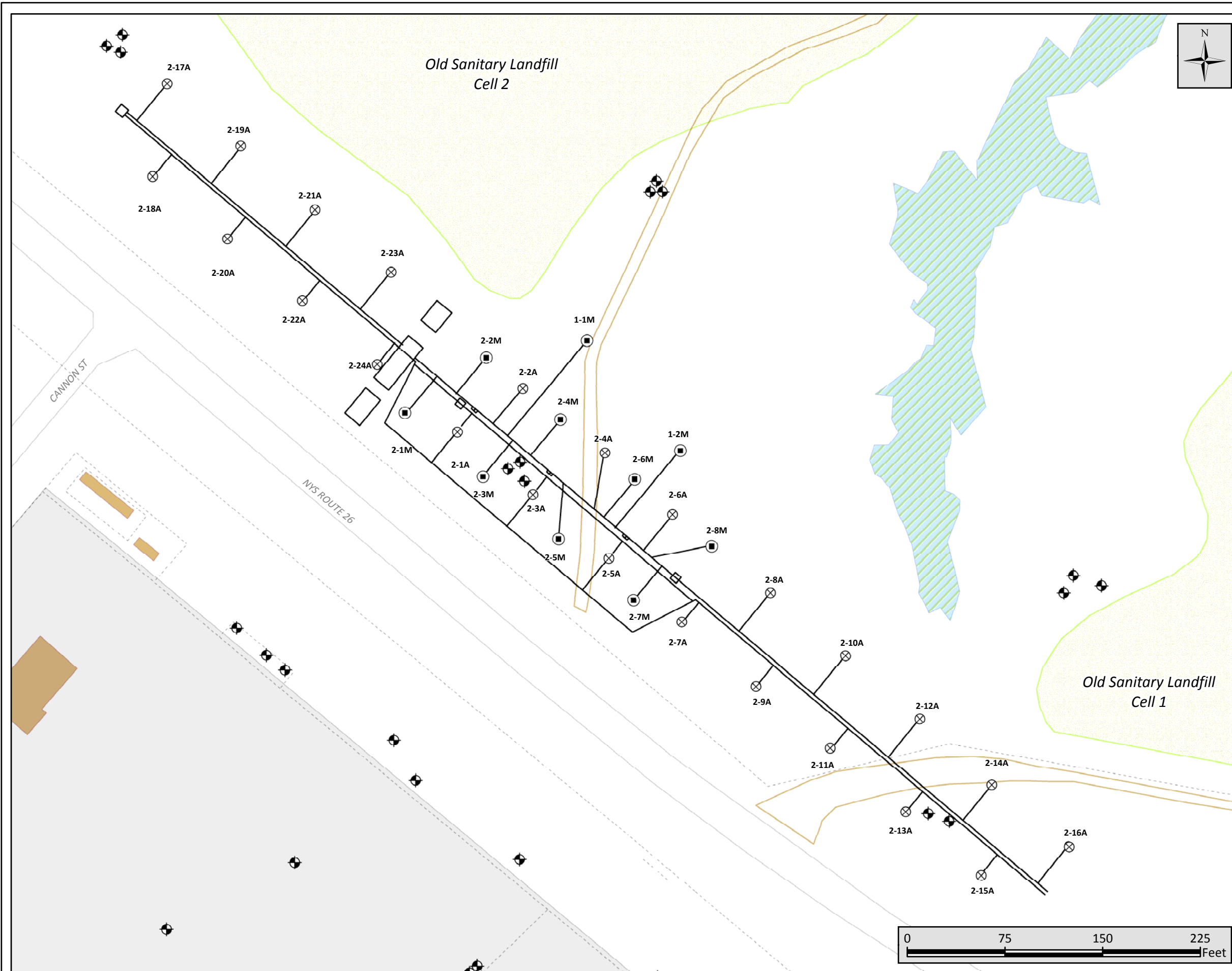
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Legend

- ⊗ Air Sparge Wells
- ⊙ Multi-phase Extraction Wells
- Soil-vapor Extraction Wells
- System Pipes & Structures
- ⬇ Monitoring Wells
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Building
- Paved Area

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Area 3805 B, Gasoline Alley	
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Legend

- ⊗ Air-Sparge Wells
- ⊙ Multi-Phase Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- + Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- ▨ Wetlands
- Building
- Paved Area

Abbreviation Key:
UST = Underground Storage Tank



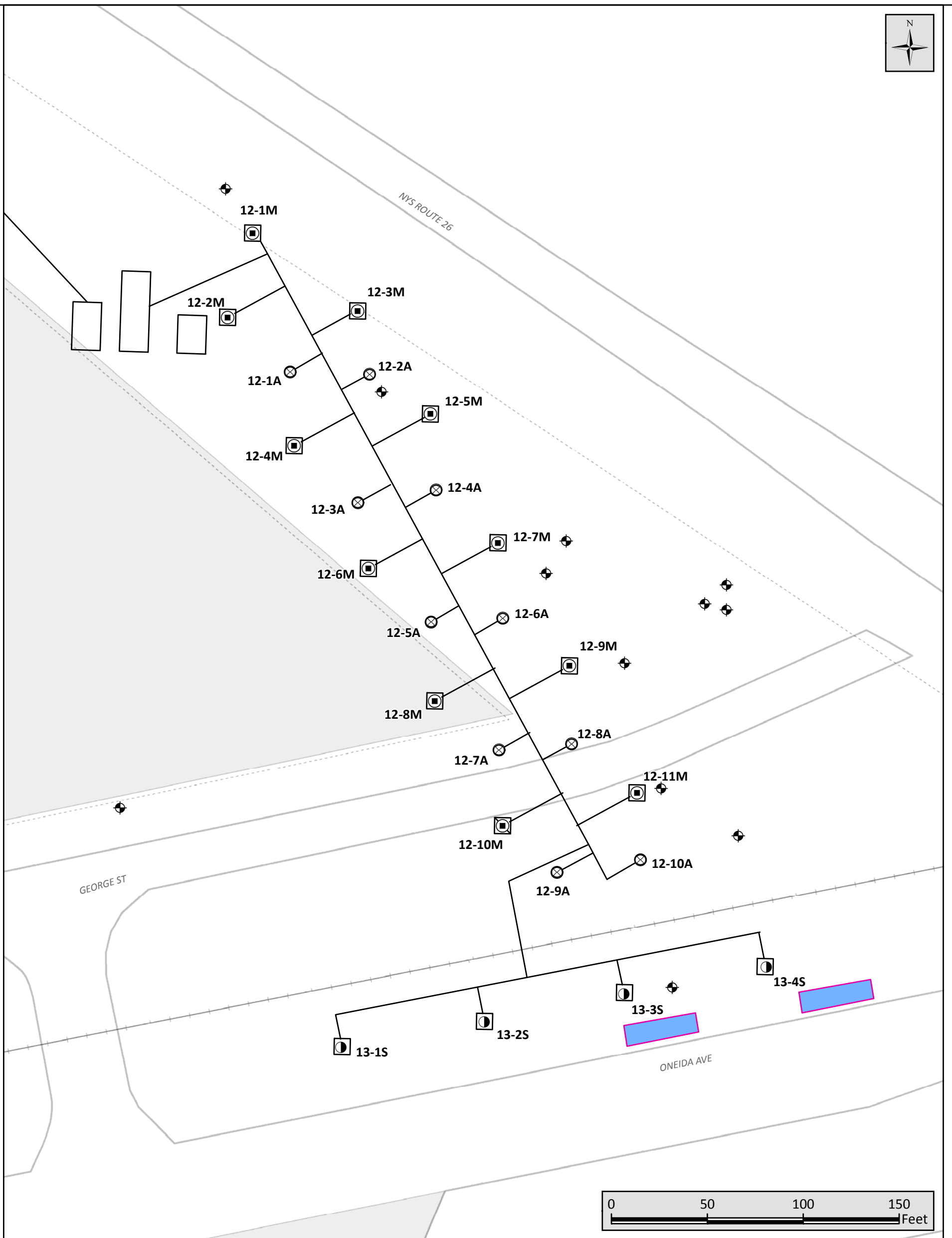
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FIGURE 2-8

Area 3805 C, Gasoline Alley

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Operations and Maintenance
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Legend

- ⊗ Air Sparge Wells
- ⊠ Multi-phase Extraction Wells
- ⊝ Soil-vapor Extraction Wells
- System Pipes & Structures
- ⊕ Monitoring Wells
- Former UST
- - - Fence Line
- + + + Rail Road
- Paved Road
- Paved Area



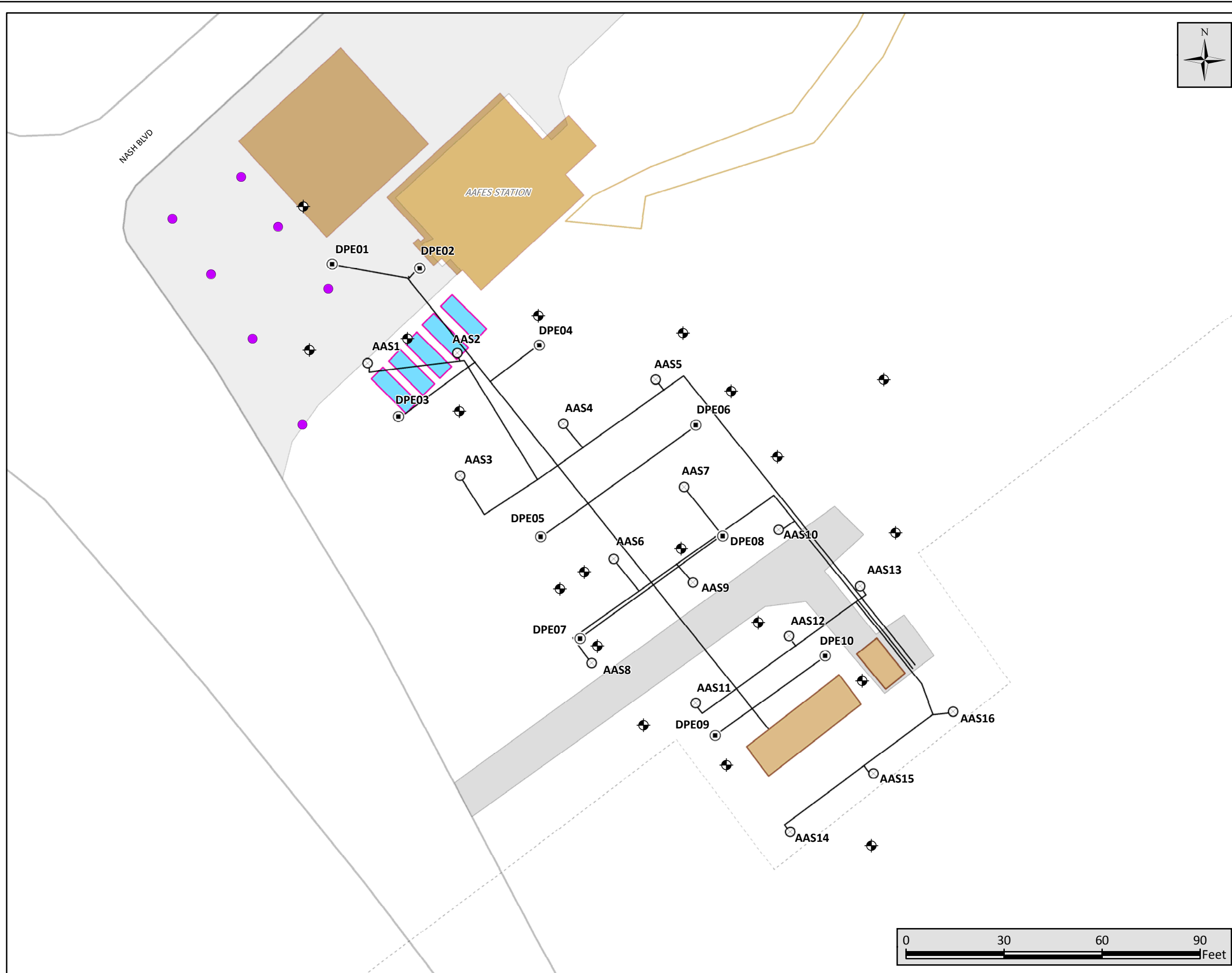
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FIGURE 2-9

Area 3805 D/1995, Gasoline Alley

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Remediation Systems for Gasoline Alley
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Fort Drum, New York



- Legend**
- ⊕ Monitoring Wells
 - Ozone Injection Points
 - ⊗ Air Sparge Wells
 - ⊙ Dual-Phase Extraction Wells
 - System Pipes
 - ▭ Former UST
 - - - Fence Line
 - ⊢ Rail Road
 - Paved Road
 - Unpaved Road
 - ▭ Building
 - ▭ Paving

Abbreviation Key:
 UST = Underground Storage Tank

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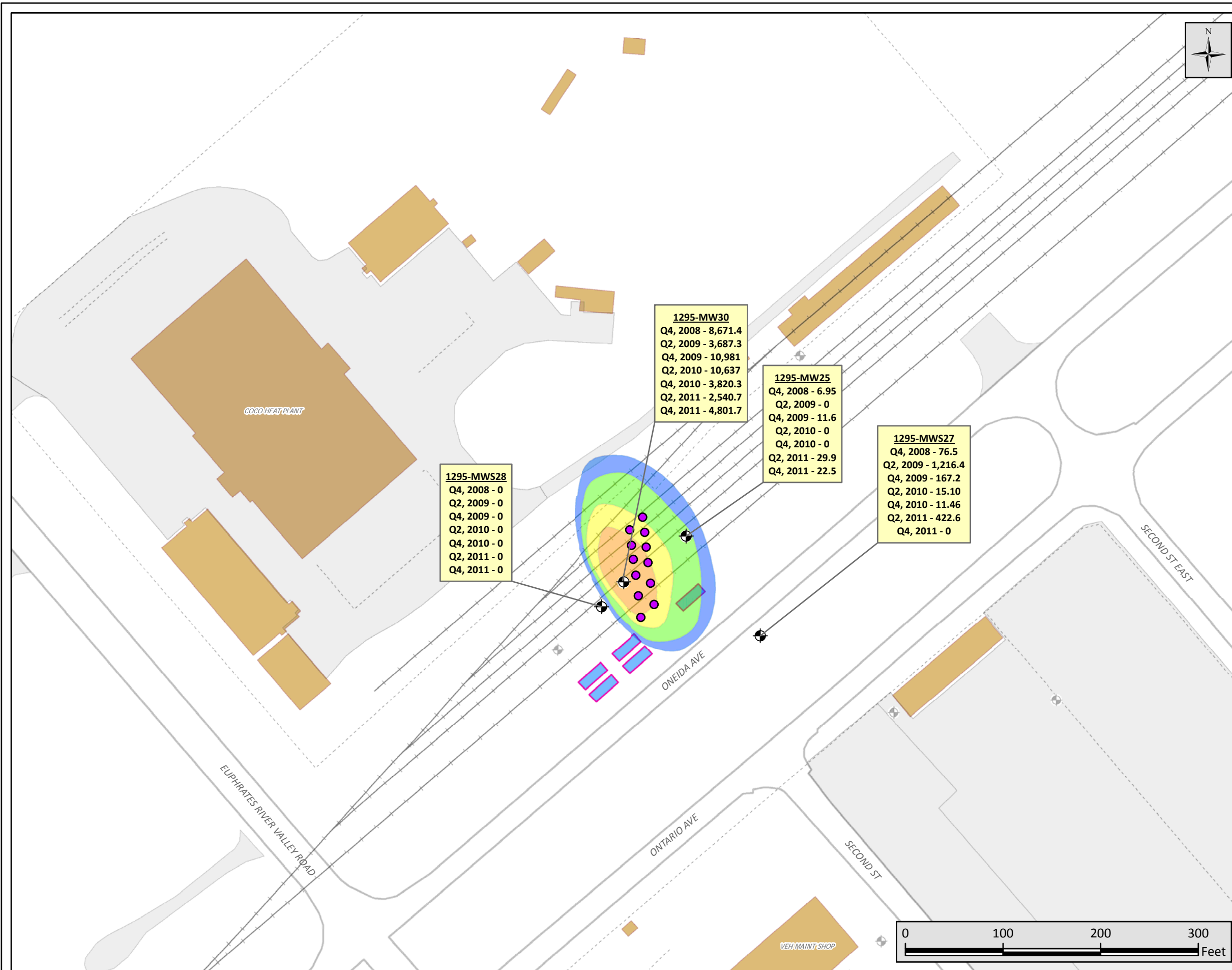
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FIGURE 2-10

**Building P-2140
 AAFES Station
 DPE and AAS Systems**

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 Operations and Maintenance
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 and Army Air Force Exchange Service Station
 Fort Drum, New York





- Legend**
- Ozone Injection Points
 - ⊕ Sampled Wells
 - ⊕ Other Monitoring Wells
 - Former UST
 - - - Fence Line
 - Rail Road
 - Paved Road
 - Building
 - Paved Area
- Fall 2011 BTEX Plume**
- 1 µg/L
 - 10 µg/L
 - 100 µg/L
 - 1,000 µg/L

1295-MWS28
 Q4, 2008 - 0
 Q2, 2009 - 0
 Q4, 2009 - 0
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 0
 Q4, 2011 - 0

1295-MW30
 Q4, 2008 - 8,671.4
 Q2, 2009 - 3,687.3
 Q4, 2009 - 10,981
 Q2, 2010 - 10,637
 Q4, 2010 - 3,820.3
 Q2, 2011 - 2,540.7
 Q4, 2011 - 4,801.7

1295-MW25
 Q4, 2008 - 6.95
 Q2, 2009 - 0
 Q4, 2009 - 11.6
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 29.9
 Q4, 2011 - 22.5

1295-MWS27
 Q4, 2008 - 76.5
 Q2, 2009 - 1,216.4
 Q4, 2009 - 167.2
 Q2, 2010 - 15.10
 Q4, 2010 - 11.46
 Q2, 2011 - 422.6
 Q4, 2011 - 0

Historical Total BTEX Label Key:
 Result values are expressed in units of
 micrograms per liter (µg/L)

Location Well ID
Quarter, Year - Total BTEX (µg/L)
Q4, 2008 - 2,000

NS = Not Sampled

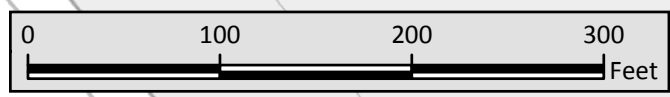
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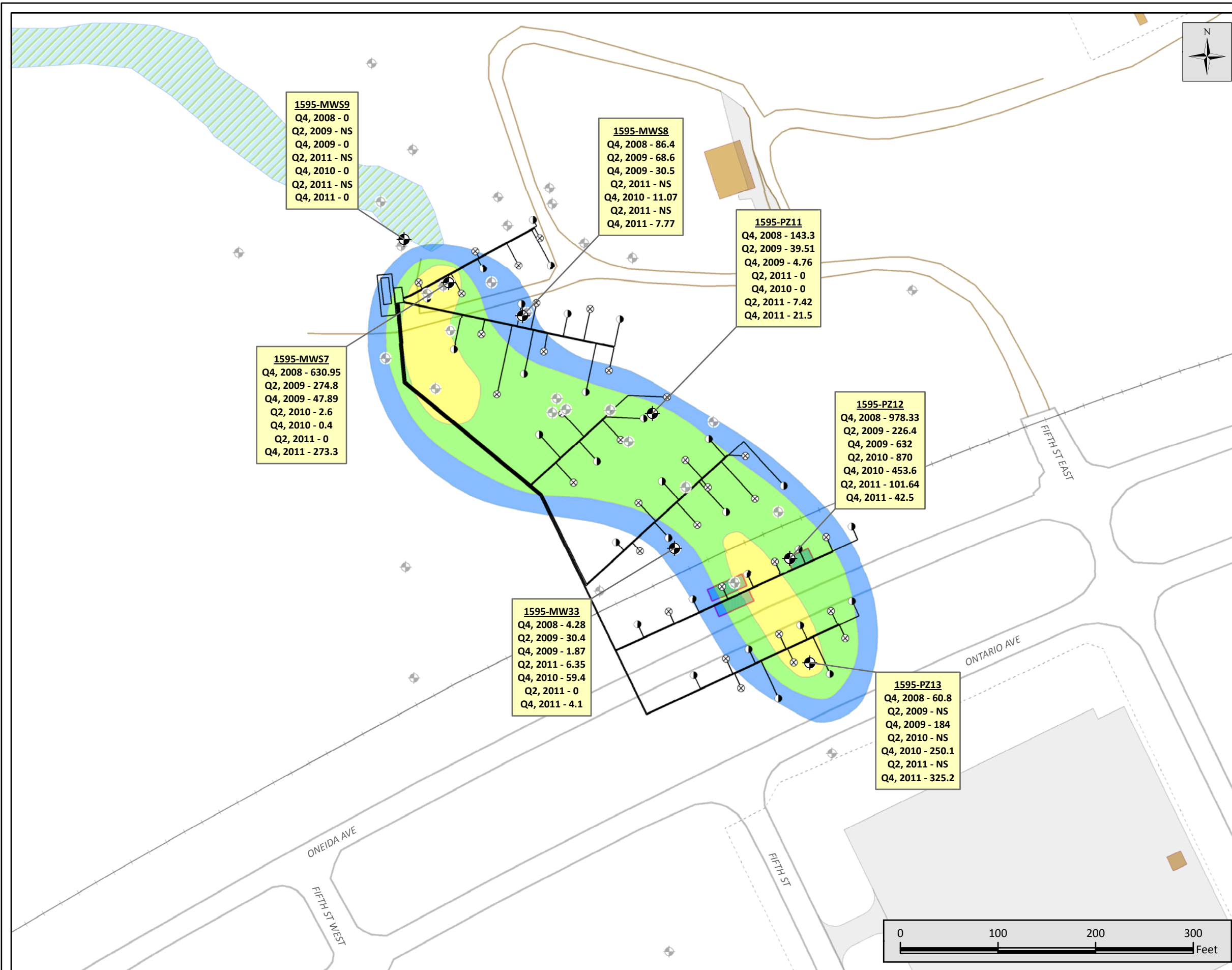
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FIGURE 2-11

1295 BTEX Comparison

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 Operations and Maintenance
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 and Army Air Force Exchange Service Station
 Fort Drum, New York





1595-MWS9
 Q4, 2008 - 0
 Q2, 2009 - NS
 Q4, 2009 - 0
 Q2, 2011 - NS
 Q4, 2010 - 0
 Q2, 2011 - NS
 Q4, 2011 - 0

1595-MWS8
 Q4, 2008 - 86.4
 Q2, 2009 - 68.6
 Q4, 2009 - 30.5
 Q2, 2011 - NS
 Q4, 2010 - 11.07
 Q2, 2011 - NS
 Q4, 2011 - 7.77

1595-PZ11
 Q4, 2008 - 143.3
 Q2, 2009 - 39.51
 Q4, 2009 - 4.76
 Q2, 2011 - 0
 Q4, 2010 - 0
 Q2, 2011 - 7.42
 Q4, 2011 - 21.5

1595-MWS7
 Q4, 2008 - 630.95
 Q2, 2009 - 274.8
 Q4, 2009 - 47.89
 Q2, 2010 - 2.6
 Q4, 2010 - 0.4
 Q2, 2011 - 0
 Q4, 2011 - 273.3

1595-PZ12
 Q4, 2008 - 978.33
 Q2, 2009 - 226.4
 Q4, 2009 - 632
 Q2, 2010 - 870
 Q4, 2010 - 453.6
 Q2, 2011 - 101.64
 Q4, 2011 - 42.5

1595-MW33
 Q4, 2008 - 4.28
 Q2, 2009 - 30.4
 Q4, 2009 - 1.87
 Q2, 2011 - 6.35
 Q4, 2010 - 59.4
 Q2, 2011 - 0
 Q4, 2011 - 4.1

1595-PZ13
 Q4, 2008 - 60.8
 Q2, 2009 - NS
 Q4, 2009 - 184
 Q2, 2010 - NS
 Q4, 2010 - 250.1
 Q2, 2011 - NS
 Q4, 2011 - 325.2

Legend

- ⊕ Sampled Wells
- ⊕ Other Monitoring Wells
- ⊗ Air Sparge Wells
- Soil-Vapor Extraction Wells
- System Pipes
- ▭ Former UST
- - - Fence Line
- ⊕ Rail Road
- Paved Road
- Unpaved Road
- ▨ Wetlands
- ▭ Building
- ▭ Paved Area

Fall 2011 BTEX Plume

- 1 µg/L
- 10 µg/L
- 100 µg/L

Historical Total BTEX Label Key:
 Result values are expressed in units of
 micrograms per liter (µg/L)

Location Well ID
Quarter, Year - Total BTEX (µg/L)
Q4, 2008 - 2,000

NS = Not Sampled

4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

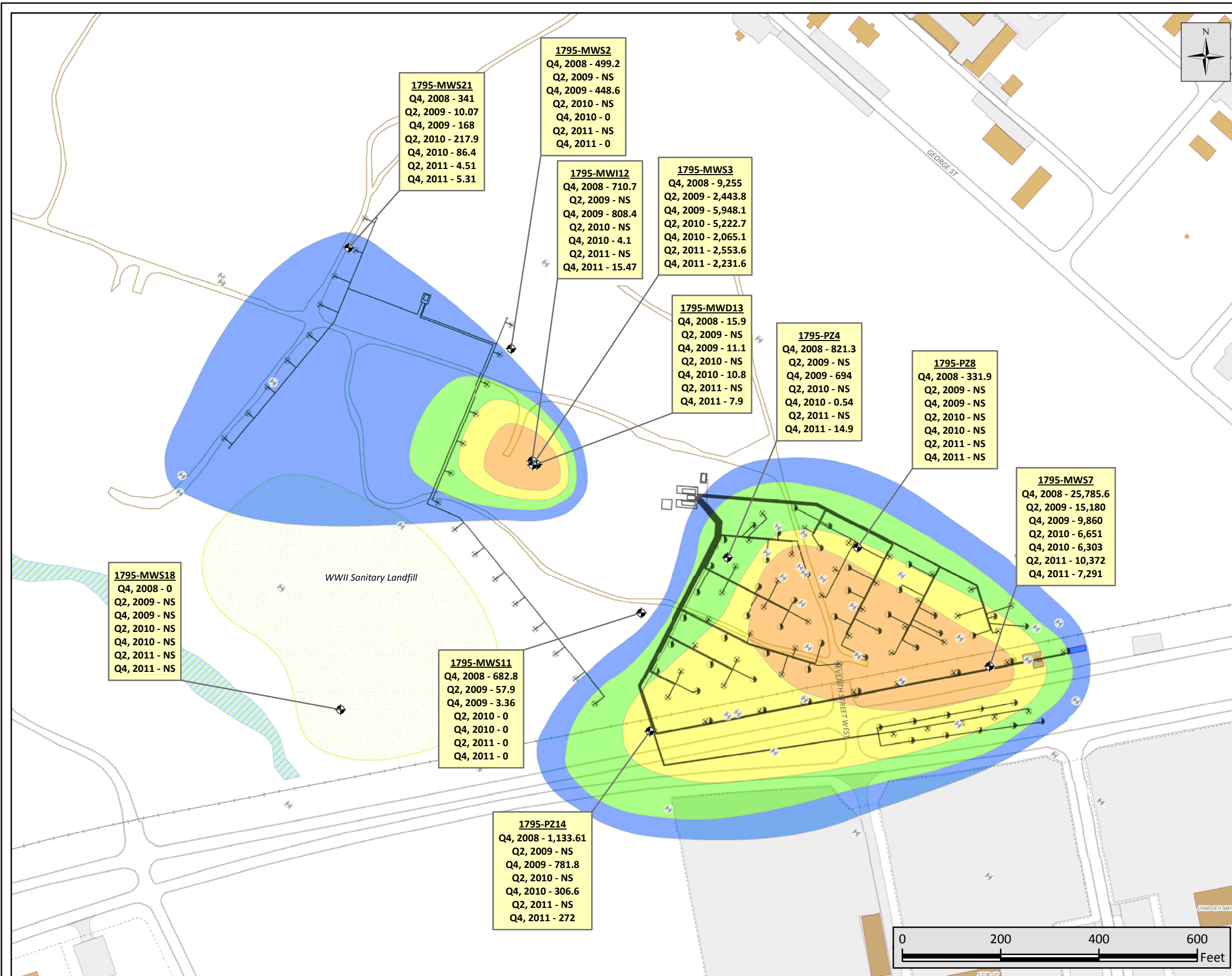
Created By: AES
 Date: Sept. 2011

FIGURE 2-12

1595 BTEX Comparison

Quarterly Report of Progress (Nov. 2011-Jan. 2012)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York





Legend

- Sample Locations
- Other Monitoring Wells
- Airsparge Wells
- Soil-Vapor Extraction
- System Pipes
- Former UST
- Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- Landfill Site
- Wetlands
- Building
- Paved Area

Fall 2011 BTEX Plume

- 1 µg/L
- 10 µg/L
- 100 µg/L
- 1,000 µg/L

Historical Total BTEX Label Key:
 Result values are expressed in units of micrograms per liter (µg/L)

Location Well ID

Quarter, Year - Total BTEX (µg/L)

Q4, 2008 - 2,000

NS = Not Sampled

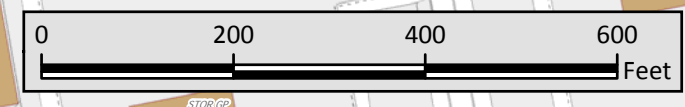
4501 Ford Ave.
 Suite 1200
 Alexandria, VA 22302
 (P) 703.820.3339
 (F) 703.845.8568

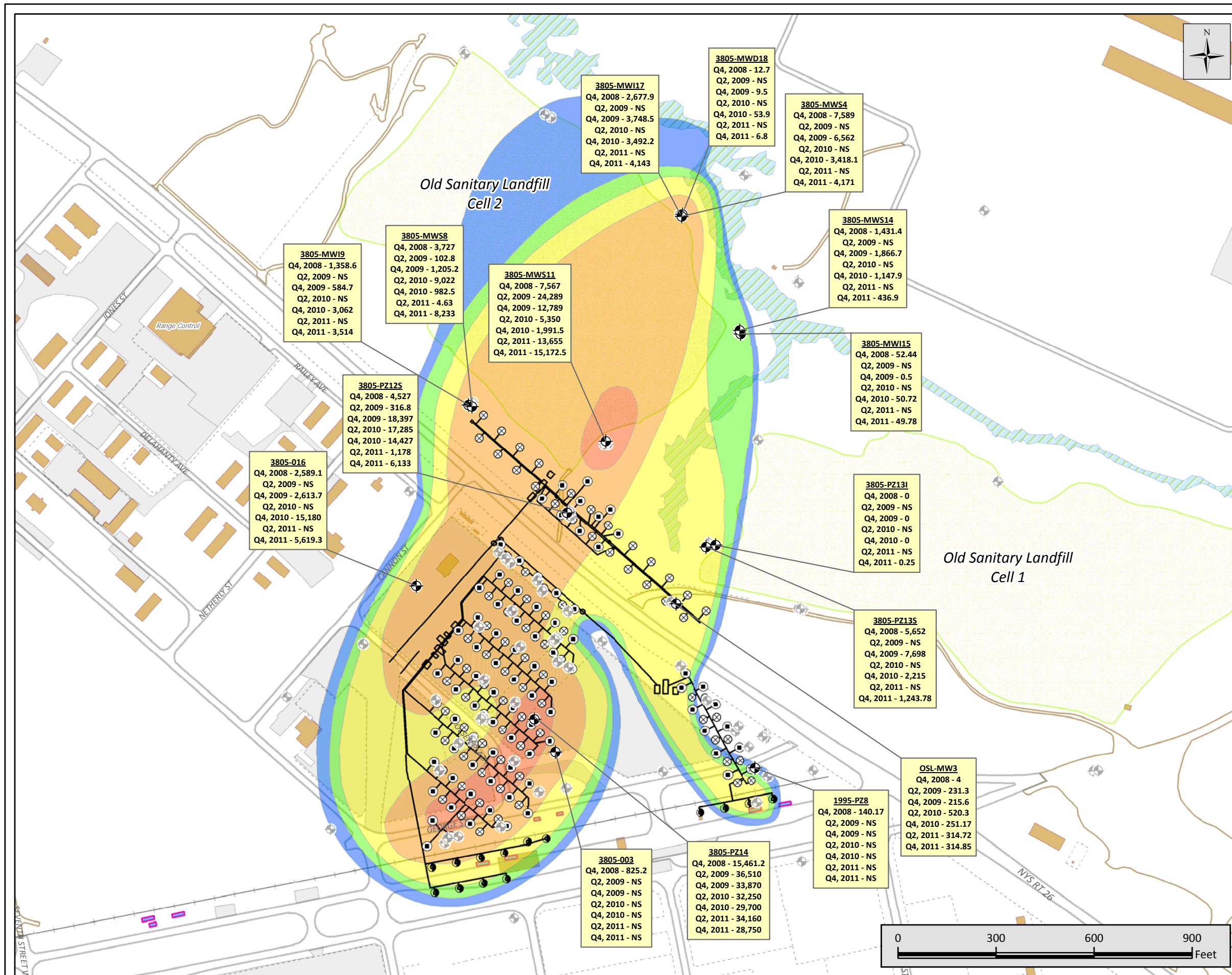
Created By: AES
 Date: September 2011

FIGURE 2-13

1795 BTEX Comparison

Quarterly Report of Progress (Nov. 2011-Jan. 2012)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York





Legend

- ⊕ Sampled Wells
- ⊖ Other Monitoring Wells
- System Pipes & Structures
- ⊗ Air Sparge Wells
- ⊙ Multi-Phase Extraction Wells
- ⊖ Soil-Vapor Extraction Wells
- █ Former UST
- - - Fence Line
- Rail Road
- Paved Road
- Unpaved Road
- ▨ Landfill
- ▨ Wetlands
- █ Building
- █ Paved Area

Fall 2011 BTEX Plume

- █ 1 µg/L
- █ 10 µg/L
- █ 100 µg/L
- █ 1,000 µg/L
- █ 10,000 µg/L

Historical Total BTEX Label Key:
Result values are expressed in units of micrograms per liter (µg/L)

Location Well ID

Quarter, Year - Total BTEX (µg/L)

Q4, 2008 - 2,000

NS = Not Sampled

4501 Ford Ave.
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Alexandria, VA 22302
(P) 703.820.3339
(F) 703.845.8568

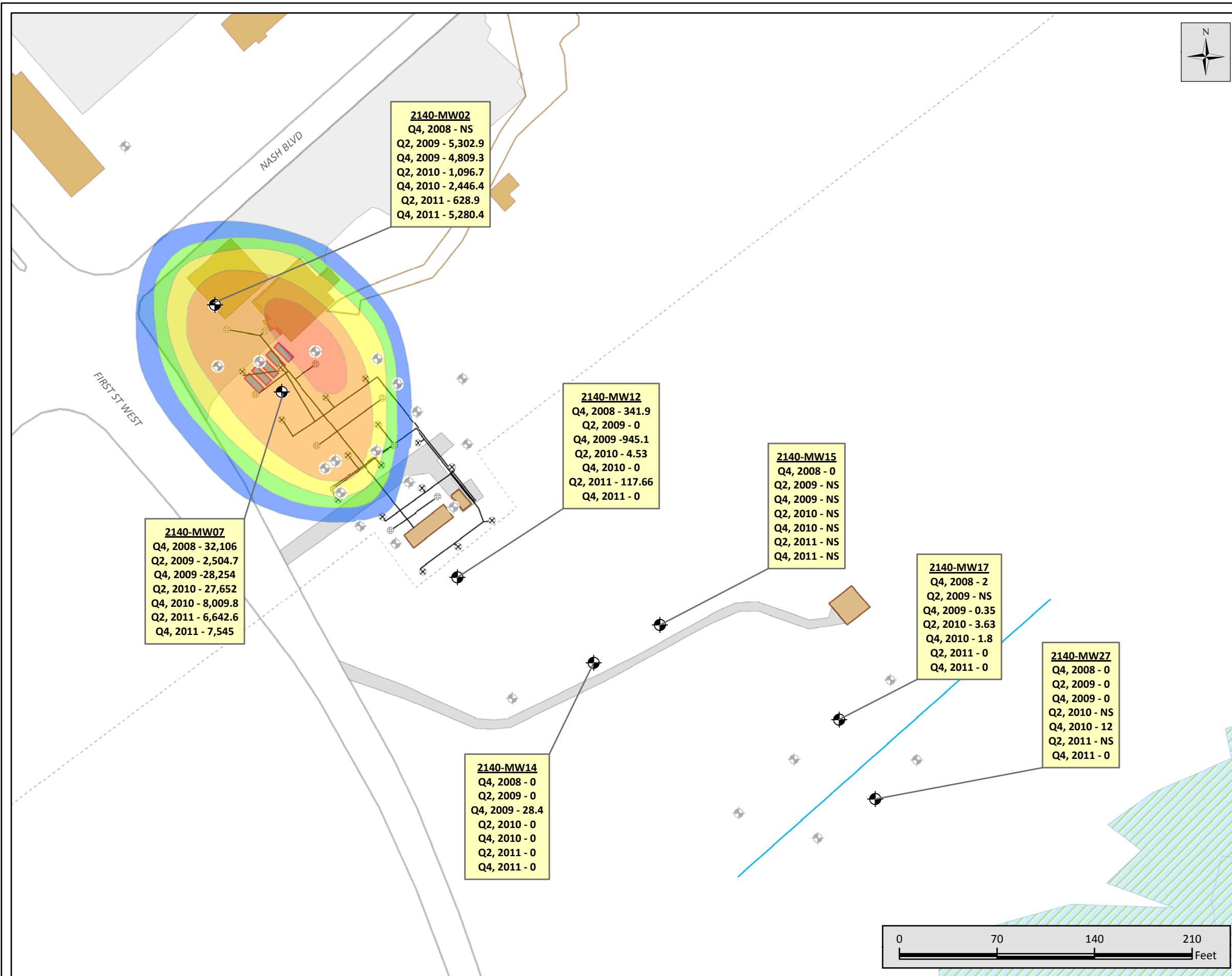
Created By: AES
Date: September 2011

FIGURE 2-14

3805/1995 BTEX Comparison

Quarterly Report of Progress (Nov. 2011-Jan. 2012)
Operations and Maintenance
Remediation Systems for Gasoline Alley
and Army Air Force Exchange Service Station
Fort Drum, New York





2140-MW02
 Q4, 2008 - NS
 Q2, 2009 - 5,302.9
 Q4, 2009 - 4,809.3
 Q2, 2010 - 1,096.7
 Q4, 2010 - 2,446.4
 Q2, 2011 - 628.9
 Q4, 2011 - 5,280.4

2140-MW07
 Q4, 2008 - 32,106
 Q2, 2009 - 2,504.7
 Q4, 2009 - 28,254
 Q2, 2010 - 27,652
 Q4, 2010 - 8,009.8
 Q2, 2011 - 6,642.6
 Q4, 2011 - 7,545

2140-MW12
 Q4, 2008 - 341.9
 Q2, 2009 - 0
 Q4, 2009 - 945.1
 Q2, 2010 - 4.53
 Q4, 2010 - 0
 Q2, 2011 - 117.66
 Q4, 2011 - 0

2140-MW15
 Q4, 2008 - 0
 Q2, 2009 - NS
 Q4, 2009 - NS
 Q2, 2010 - NS
 Q4, 2010 - NS
 Q2, 2011 - NS
 Q4, 2011 - NS

2140-MW17
 Q4, 2008 - 2
 Q2, 2009 - NS
 Q4, 2009 - 0.35
 Q2, 2010 - 3.63
 Q4, 2010 - 1.8
 Q2, 2011 - 0
 Q4, 2011 - 0

2140-MW27
 Q4, 2008 - 0
 Q2, 2009 - 0
 Q4, 2009 - 0
 Q2, 2010 - NS
 Q4, 2010 - 12
 Q2, 2011 - NS
 Q4, 2011 - 0

2140-MW14
 Q4, 2008 - 0
 Q2, 2009 - 0
 Q4, 2009 - 28.4
 Q2, 2010 - 0
 Q4, 2010 - 0
 Q2, 2011 - 0
 Q4, 2011 - 0

Legend

- Sampled Wells
- Other Monitoring Wells
- Fall 2011 BTEX Plume
 - 1 µg/L
 - 10 µg/L
 - 100 µg/L
 - 1,000 µg/L
 - 10,000 µg/L
- Airsparge Wells
- MPE Wells
- System Pipes
- Ozone Sparging Lines
- Former UST
- Fence Line
- Rail Road
- Unpaved Road
- Paved Road
- Wetlands
- Building
- Paved Area

Historical Total BTEX Label Key:
 Result values are expressed in units of micrograms per liter (µg/L)

Location Well ID
 Quarter, Year - Total BTEX (µg/L)
 Q4, 2008 - 2,000

NS = Not Sampled

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FIGURE 2-15

2140 BTEX Comparison

Quarterly Report of Progress (Nov. 2011-Jan. 2012)
 Operations and Maintenance
 Remediation Systems for Gasoline Alley
 and Army Air Force Exchange Service Station
 Fort Drum, New York



Figure 3-1: Area 1595

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

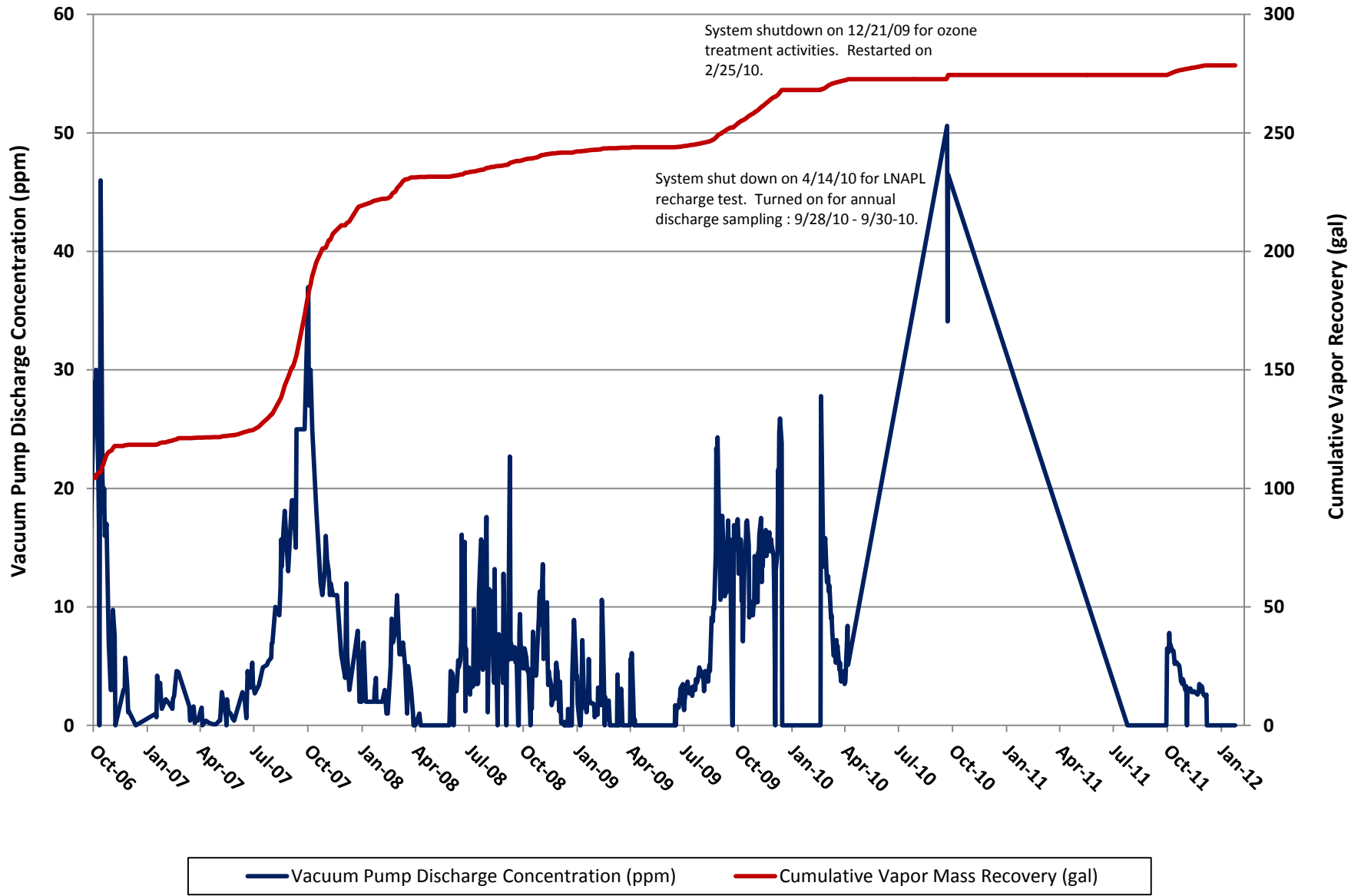


Figure 3-2A: Area 1795 - System A

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

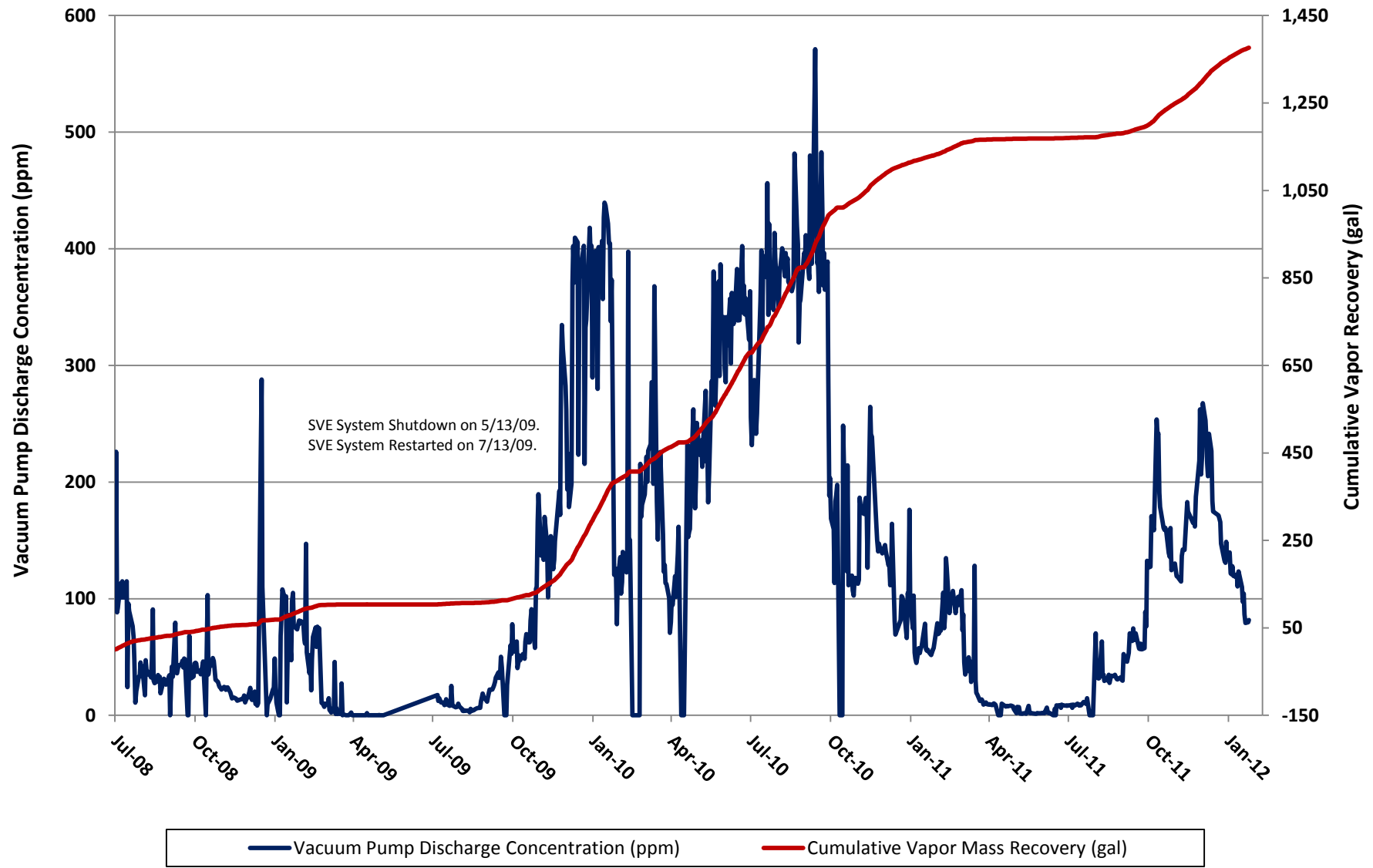


Figure 3-2B: Area 1795 - System B

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

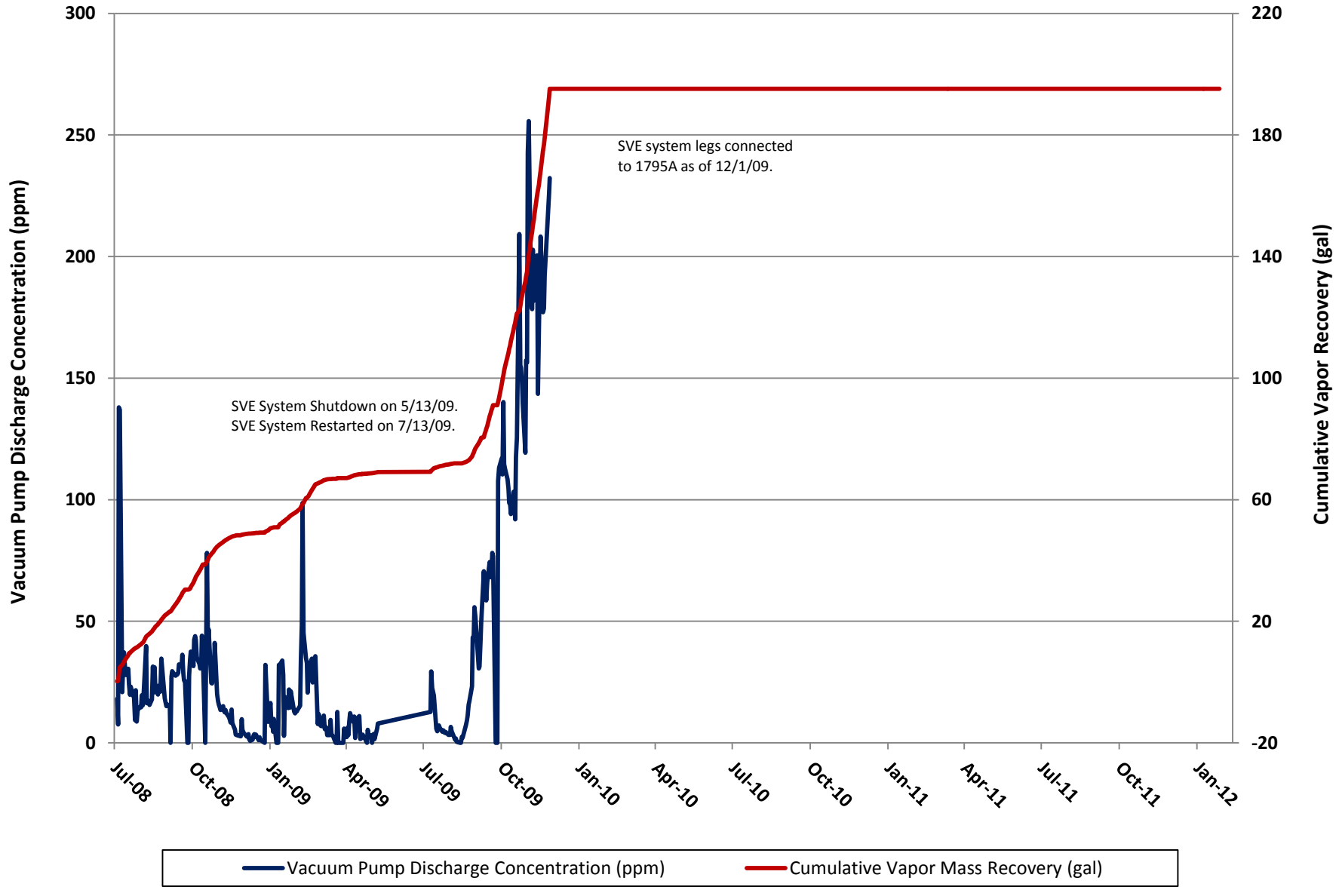


Figure 3-3A: Area 3805 - System A

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

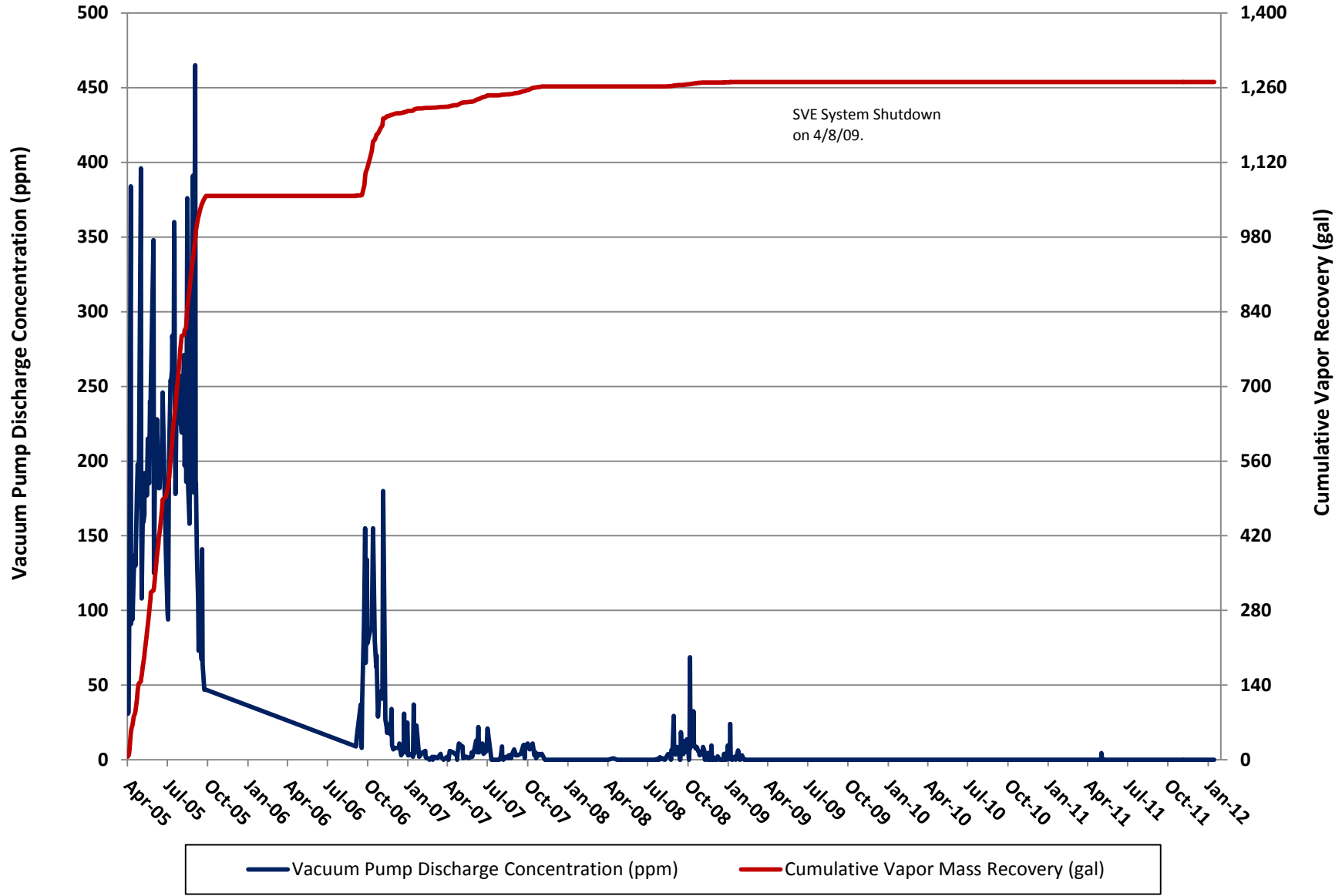


Figure 3-3B: Area 3805 - System B

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

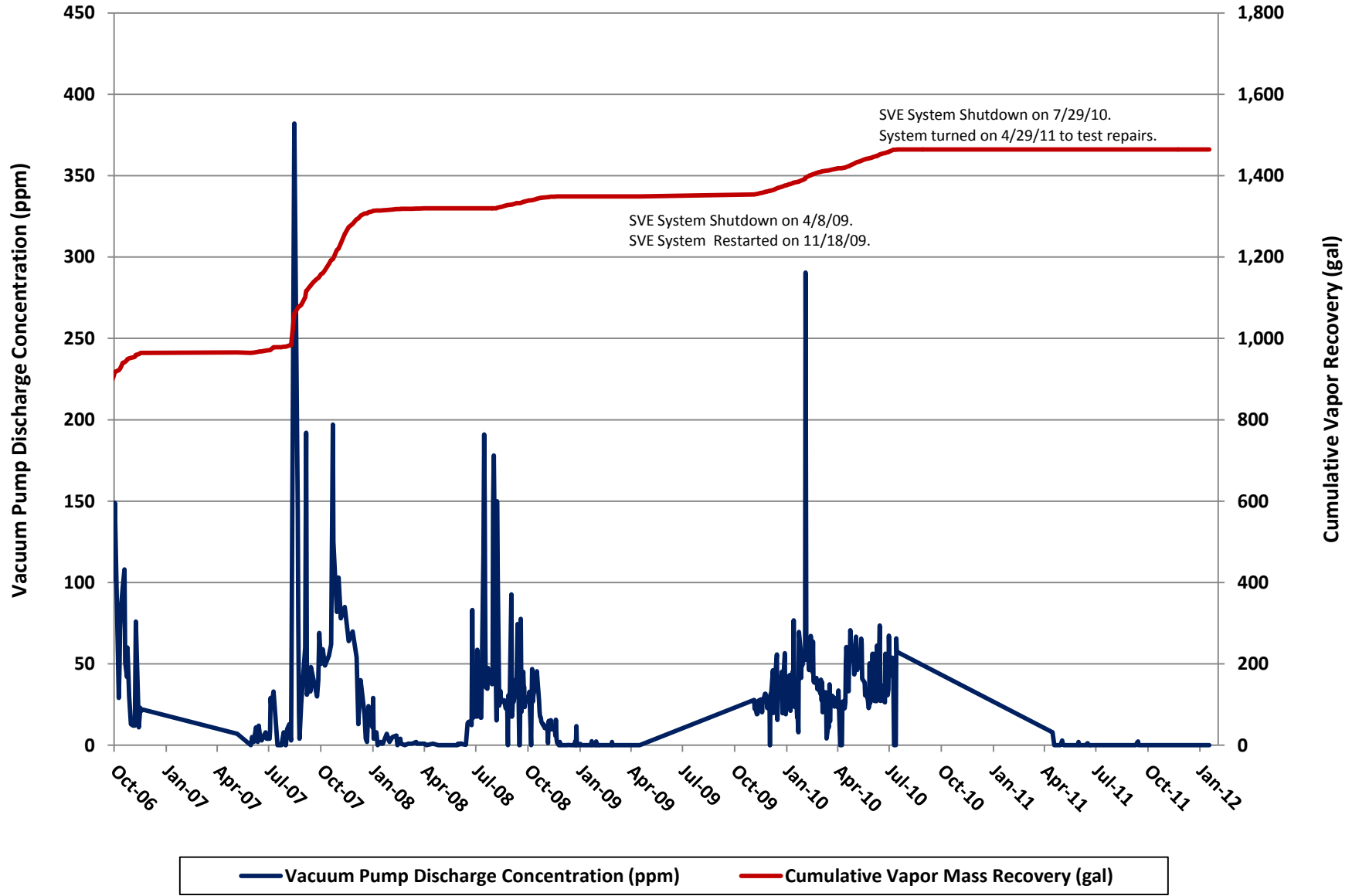


Figure 3-3C: Area 3805 - System C

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

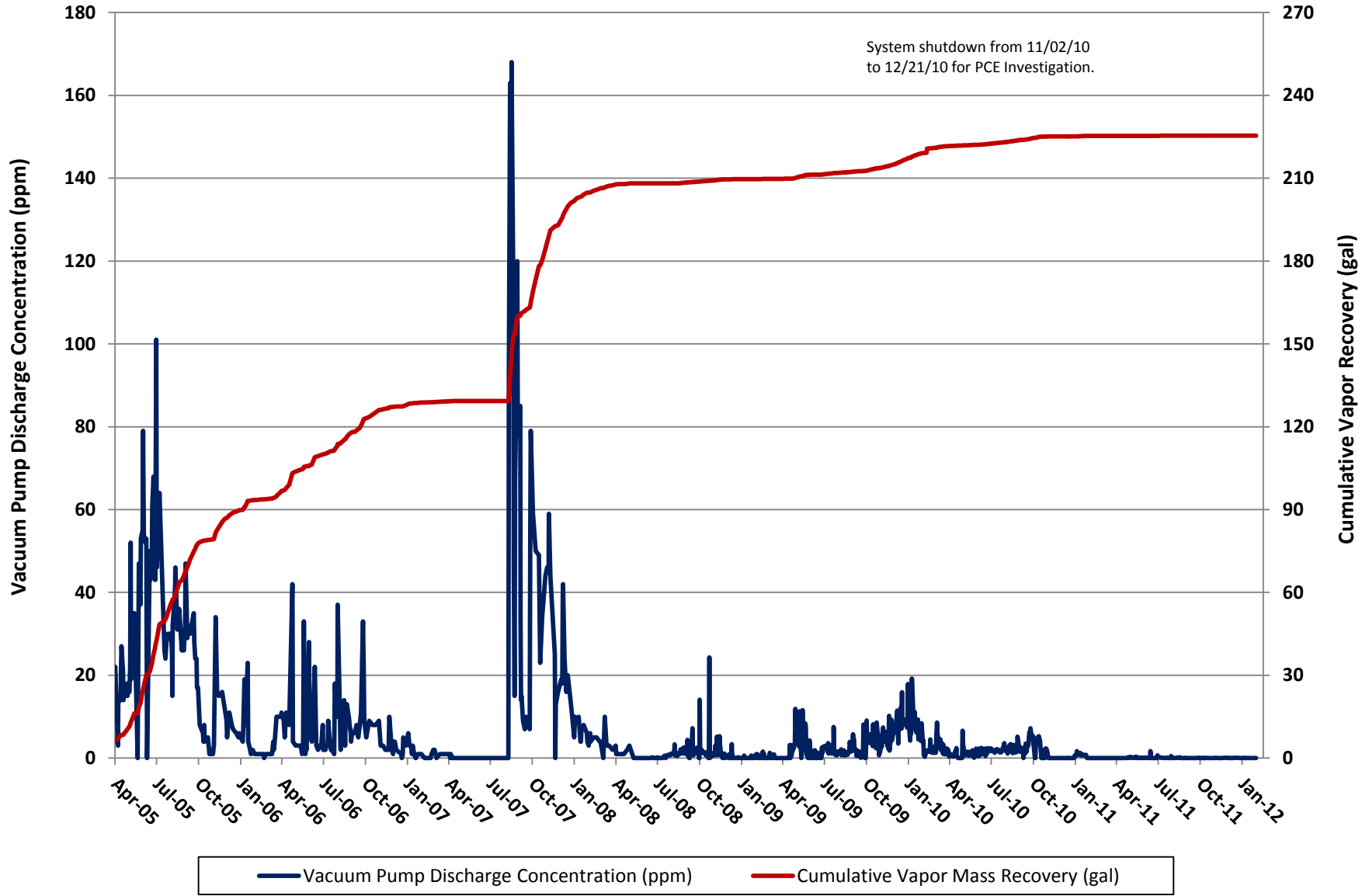


Figure 3-3D: Area 3805 - System D

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery

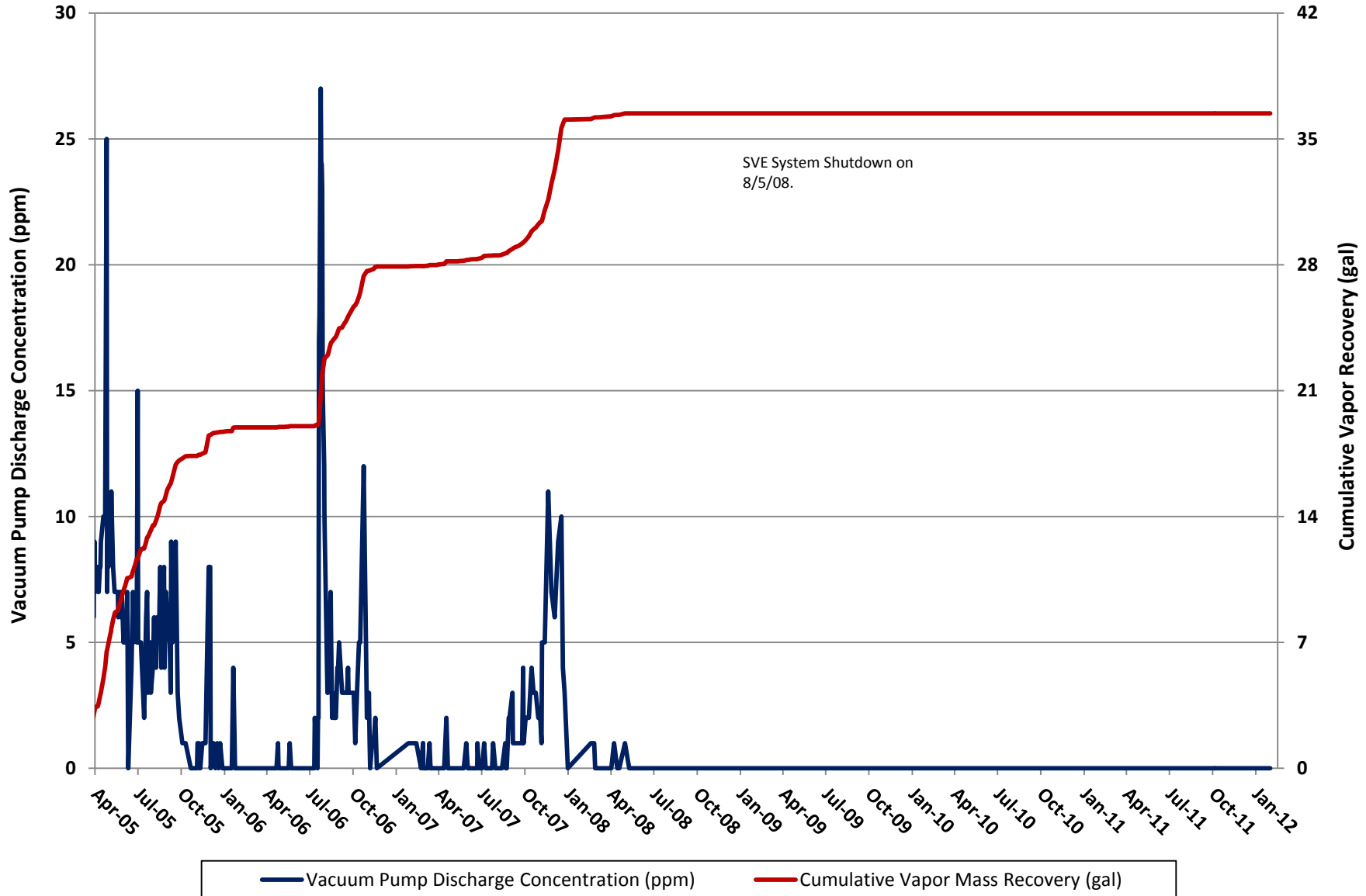
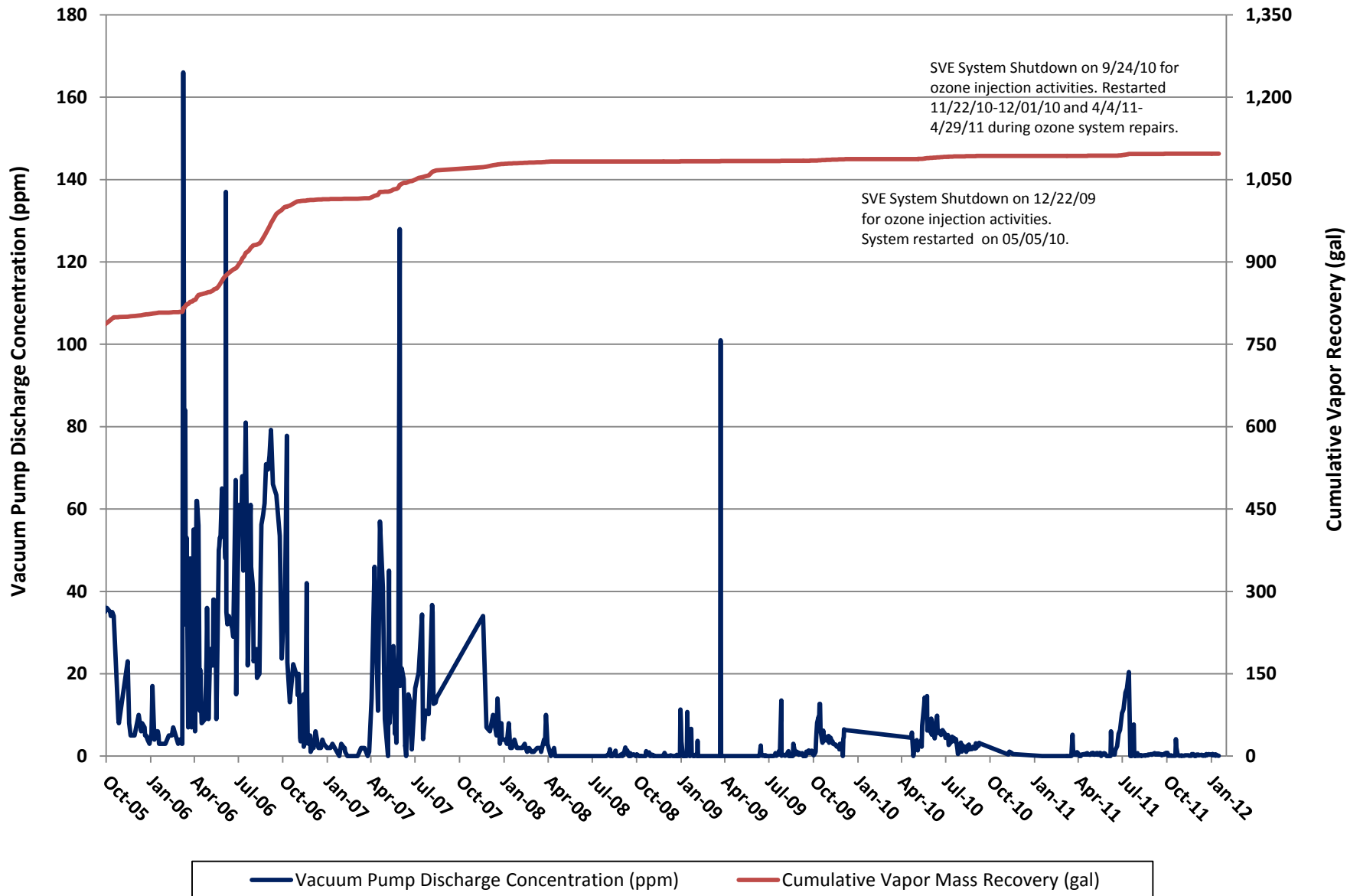


Figure 3-4: AAFES (Building P-2140)

Trends In Vacuum Pump Discharge Concentrations vs. Cumulative Contaminant Recovery



TABLES

**TABLE 3-1
SUMMARY OF DO/ORP/PID DATA
AREA 1295**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1295-MW30	3/15/2011	15:21	15:26	12.16	7.58	5.98	0.686	-119.0	1.36	3.1	
	4/14/2011	14:50	14:55	9.69	7.87	4.78	1.095	-363.0	1.85	195.3	AEC ozone trailer running
	5/18/2011	12:33	12:38	8.58	9.11	5.94	0.772	-182.4	2.54	46.2	
	6/15/2011	8:43	8:48	9.28	12.60	4.21	3.128	209.6	1.11	1.6	Trailer off at sample time
	7/11/2011	13:37	13:42	9.60	13.98	5.99	4.528	-320.5	2.65	1.9	
	8/17/2011	11:55	12:00	9.58	16.87	5.75	0.886	17.9	3.04	1.8	
	9/26/2011	11:17	11:22	10.14	15.37	6.42	1.741	-227.8	1.18	0.0	
	10/18/2011	13:15	13:20	9.78	14.36	6.78	1.629	-135.1	4.67	0.1	
	11/14/2011	13:22	13:27	10.14	14.19	6.54	0.864	-32.9	0.79	0.0	
	12/6/2011	13:20	13:25	10.03	12.44	6.47	1.138	-39.2	1.67	0.1	
1/10/2012	13:19	13:24	9.97	10.78	6.41	1.287	-62.9	7.43	0.1		

Notes:
 NR = Not Recorded
 DTW = Depth to Water (feet)
 Temp = Temperature (degrees Fahrenheit)
 ORP = Oxidation Reduction Potential
 mV = Millivolts
 DO = Dissolved Oxygen (milligrams per liter)
 PID = Photoionization Detector
 ppm = Parts Per Million

**TABLE 3-2
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL
AREA 1595**

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	8.70	1.39	0
December	3.80	0.61	0
January	0.00	0.00	0.0457
Quarter Total	12.50	1.99	0.0457
Cumulative Total	1,794.07	285.68	156.1

Notes:

lb = pounds

gal = gallons

**TABLE 3-3
CUMULATIVE VOLUME OF TREATED GROUNDWATER
AREA 1595**

Description	November	December	January	Total/Average
Gallons	0	0	0	NA
Hours Operated	707	307	559	NA
Days Operated	29	13	23	NA
Average (gal/min)	NA	NA	NA	NA

**TABLE 3-4
SUMMARY OF DO/ORP/PID DATA
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1595-MW33A	12/16/2008	NR	NR	NR	NR	NR	NR	70.2	10.64	0.0	
	1/13/2009	9:17	9:48	12.12	10.46	7.06	3.085	2.9	0.52	0.0	
	1/20/2009	10:18	10:29	12.36	8.30	7.80	0.430	-46.5	11.85	0.0	
	2/5/2009	10:46	11:03	13.12	9.24	7.17	1.167	-8.5	0.76	0.0	
	3/4/2009	9:13	9:53	12.69	8.74	7.42	0.400	53.7	8.19	0.0	
	3/25/2009	15:28	16:10	12.36	7.88	7.01	0.759	53.1	9.44	0.0	
	4/13/2009	13:43	13:48	12.12	8.36	8.06	0.326	169.0	9.83	0.0	
	5/19/2009	9:20	9:25	12.19	9.28	7.76	0.805	167.9	10.50	0.0	
	6/24/2009	12:37	12:42	12.64	12.40	6.84	0.822	166.4	1.96	0.0	
	7/30/2009	10:01	10:09	13.61	12.23	7.47	0.517	39.2	7.81	0.0	
	8/28/2009	10:11	10:16	11.09	12.34	6.35	1.775	17.5	1.49	0.0	
	9/16/2009	9:57	10:02	14.88	12.62	7.61	1.915	72.5	7.93	0.0	
	10/13/2009	10:11	10:16	15.16	11.93	7.58	0.755	122.1	8.39	0.0	
	11/11/2009	10:16	10:21	15.31	12.44	2.17	1.704	7.0	13.13	0.0	
	12/16/2009	11:36	11:41	15.61	10.74	7.43	2.005	-14.0	8.38	0.0	
	1/15/2010	9:50	9:55	15.82	10.28	7.37	2.333	56.4	7.47	0.0	
	2/8/2010	15:15	15:20	15.31	8.48	7.27	1.112	3.0	9.46	0.0	
	3/9/2010	13:29	13:34	15.88	9.51	7.70	0.722	-64.3	9.72	0.0	
	4/13/2010	14:16	14:21	15.18	9.22	7.34	2.115	71.9	10.33	0.0	
	5/11/2010	13:42	13:47	15.58	9.14	7.55	1.838	-8.6	9.21	0.0	
	6/15/2010	14:12	14:17	15.91	10.66	7.51	0.613	-43.2	10.95	0.0	
	7/13/2010	14:17	14:22	15.78	11.70	7.63	0.589	-3.7	11.23	0.0	
	8/10/2010	13:30	13:35	16.52	13.83	7.59	2.100	0.5	9.18	0.0	
	9/14/2010	11:15	11:20	15.86	12.85	6.74	2.391	9.9	7.78	2.0	
	10/12/2010	13:32	13:37	14.44	14.38	7.12	0.308	-30.1	9.12	0.0	
	11/15/2010	11:40	11:45	14.59	13.37	6.84	0.497	54.8	9.94	0.0	
	12/15/2010	9:45	9:50	13.67	11.00	7.02	0.269	-143.8	4.02	0.0	
	1/14/2011	8:26	8:31	13.94	9.76	7.48	0.723	41.7	10.39	0.0	
	2/14/2011	8:54	8:59	14.77	9.71	6.99	3.741	92.7	8.64	0.0	
	3/15/2011	9:34	9:39	12.34	8.47	7.12	0.833	-149.3	8.08	0.0	
	4/14/2011	14:01	14:06	12.73	8.54	7.03	2.984	-321.5	7.12	0.0	
5/18/2011	11:30	11:35	11.36	8.50	7.85	0.312	-217.7	12.01	0.0		
6/13/2011	10:40	10:45	11.71	9.89	7.14	0.330	-72.8	7.13	0.0		
7/11/2011	12:43	12:48	12.34	12.19	7.46	0.037	-299.2	6.05	0.0		
8/17/2011	11:30	11:35	12.86	12.79	7.22	2.159	-6.5	7.35	0.0		
9/27/2011	14:23	14:28	13.87	13.20	7.15	1.047	-254.6	3.32	0.0		
10/18/2011	12:09	12:14	13.91	13.17	7.56	1.930	-126.6	9.71	0.0	SVE running	
11/14/2011	13:36	13:41	14.21	13.79	7.89	0.711	-19.7	10.83	0.0		
12/6/2011	12:16	12:21	14.42	11.67	7.09	2.241	11.0	6.22	0.0		
1/10/2012	13:52	13:57	13.98	11.24	7.73	0.682	-108.2	8.58	0.0		
1595-MW35	12/16/2008	NR	NR	NR	NR	NR	NR	285.8	10.87	0.0	
	1/13/2009	10:06	10:37	11.25	9.65	6.91	0.481	33.7	0.83	0.0	
	1/20/2009	8:20	8:35	11.55	8.90	7.55	0.413	76.8	12.11	0.0	
	2/5/2009	11:50	12:21	12.18	9.76	6.98	0.382	8.8	1.00	0.3	
	3/4/2009	10:11	10:39	11.6	8.05	7.14	0.255	86.8	10.71	0.0	
	3/25/2009	15:12	15:49	11.27	7.42	6.56	0.282	26.5	10.79	0.0	
	4/13/2009	14:51	14:56	11.54	7.40	6.98	0.420	184.3	14.43	0.0	Well bubbling
	5/19/2009	10:55	11:00	11.14	8.38	7.44	0.194	142.7	16.07	0.0	
	6/24/2009	13:57	14:02	11.64	9.60	7.13	0.423	34.7	12.74	0.0	
	7/30/2009	10:23	10:28	12.62	10.58	7.08	0.756	36.1	10.33	0.0	
	8/28/2009	10:46	10:51	13.32	12.90	6.72	0.408	101.5	12.48	0.0	
	9/16/2009	10:14	10:19	13.95	12.44	7.22	0.727	15.7	10.48	0.0	
	10/13/2009	10:37	10:42	14.36	12.20	7.06	0.591	23.4	9.56	0.0	
	11/11/2009	10:41	10:46	14.56	12.13	6.94	0.517	-12.6	10.06	0.0	
	12/16/2009	11:10	11:15	14.71	10.94	7.26	0.467	14.7	12.12	0.0	Well bubbling
	1/15/2010	10:00	10:05	15.03	10.30	7.45	0.531	44.9	9.85	0.0	
	2/8/2010	14:53	14:58	14.67	9.50	6.90	0.463	-11.9	10.74	0.2	
	3/9/2010	13:16	13:21	14.99	9.40	6.99	0.565	-17.5	11.23	0.0	
	4/13/2010	14:07	14:12	14.42	8.76	6.96	0.659	79.5	11.70	0.0	
	5/11/2010	13:30	13:35	14.94	8.65	7.05	0.741	-16.9	10.80	0.0	
	6/15/2010	13:46	13:51	15.14	9.50	6.97	0.410	-6.5	11.44	0.0	
	7/13/2010	13:50	13:55	14.83	10.18	7.05	0.613	127.4	11.62	0.0	
	8/10/2010	11:00	11:05	14.49	11.13	7.20	0.638	167.0	11.50	0.0	
	9/14/2010	12:27	12:32	14.94	13.23	6.90	0.321	46.8	9.43	0.0	
	10/12/2010	13:04	13:09	13.18	13.24	7.15	0.508	73.0	9.93	0.0	
	11/15/2010	10:58	11:03	13.74	12.89	7.25	0.043	116.7	9.98	0.0	
	12/15/2010	9:00	9:05	12.71	11.62	7.11	0.391	-133.0	3.00	0.0	
	1/14/2011	12:45	12:50	13.13	10.56	7.19	0.468	124.7	10.37	0.0	
	2/14/2011	8:37	8:42	13.88	9.92	6.80	0.337	56.0	9.86	0.0	
	3/15/2011	16:04	16:09	11.57	7.61	7.08	0.471	-129.7	11.85	0.0	
	4/14/2011	13:53	13:58	11.75	7.37	6.91	0.407	-317.6	9.62	0.0	
5/18/2011	12:46	12:51	10.01	8.10	6.90	0.358	-206.6	13.21	0.0		
6/13/2011	10:26	10:31	10.34	9.01	6.85	0.514	-78.7	7.28	0.0		
7/11/2011	13:50	13:55	10.97	10.59	7.10	0.619	-295.7	9.89	0.0		
8/17/2011	11:19	11:24	11.41	12.75	7.00	0.720	-18.8	11.71	0.0	Well bubbling	
9/27/2011	14:12	14:17	17.61	11.62	6.88	0.705	-207.9	11.37	0.0		
10/18/2011	13:27	13:32	12.51	12.47	7.04	0.643	-107.6	10.99	0.0	SVE running	
11/14/2011	12:55	13:00	12.98	13.02	7.08	0.428	235.1	12.22	0.0		
12/6/2011	13:32	13:37	13.22	12.03	6.86	0.599	-17.0	10.69	0.0		
1/10/2012	13:32	13:37	12.90	11.28	6.98	0.546	-61.3	9.97	0.0		

**TABLE 3-4
SUMMARY OF DO/ORP/PID DATA
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1595-MWS2	12/16/2008	NR	NR	NR	NR	NR	NR	-73.5	1.07	0.0	
	1/13/2009	9:25	9:43	12.2	10.52	6.88	1.384	-81.2	3.57	0.0	
	1/20/2009	8:40	9:00	11.45	8.46	7.02	0.000	6.9	4.53	0.0	
	2/5/2009	11:06	11:32	13.22	10.30	6.78	0.682	58.7	0.13	0.0	
	3/4/2009	9:18	9:37	12.63	9.48	6.68	0.348	-95.1	0.68	0.0	
	3/25/2009	15:40	16:21	12.35	8.42	6.27	0.570	-49.2	1.49	0.0	
	4/13/2009	13:53	13:58	12.05	8.87	7.18	0.975	-85.6	2.64	0.0	
	5/19/2009	10:09	10:14	12.28	9.07	6.90	1.826	-130.3	1.64	0.0	
	6/24/2009	13:45	13:50	12.78	11.23	6.81	1.165	-91.4	0.51	1.6	
	7/30/2009	10:14	10:19	13.74	12.40	6.70	1.308	-83.6	1.48	0.0	
	8/28/2009	10:18	10:23	14.43	13.23	6.50	1.935	-70.5	3.96	0.0	
	9/16/2009	10:05	10:10	14.98	12.91	6.70	1.973	22	0.67	0.0	
	10/13/2009	10:23	10:28	15.26	13.72	6.73	1.822	-102.1	1.50	0.0	
	11/11/2009	10:28	10:33	15.34	14.01	6.65	1.673	-120.9	13.68	0.0	
	12/16/2009	11:23	11:28	15.43	12.65	7.06	0.612	-15.7	4.09	0.0	
	1/15/2010	10:12	10:17	15.81	11.44	6.74	0.953	49.1	0.99	1.3	
	2/8/2010	14:45	14:50	15.33	10.22	6.45	1.063	18.5	1.24	0.0	
	3/9/2010	13:02	13:07	15.84	10.22	6.52	2.035	-54.4	4.03	0.0	
	4/13/2010	13:55	14:00	15.25	10.06	6.96	1.682	53.5	3.48	0.0	
	5/11/2010	13:16	13:21	15.73	9.83	6.70	3.646	-57.2	0.44	0.0	
	6/15/2010	14:01	14:06	16.03	11.49	6.42	3.418	-66.8	0.77	0.0	
	7/13/2010	14:06	14:11	15.79	12.63	6.53	6.897	-88.1	2.04	0.9	
	8/10/2010	12:41	12:46	15.46	13.54	6.48	5.770	-86.8	1.36	0.0	
	9/14/2010	11:58	12:03	15.64	13.98	6.47	4.330	-28.1	0.80	3.2	
	10/12/2010	13:20	13:25	14.08	15.74	6.87	1.947	-62.4	0.92	0.2	
	11/15/2010	11:51	11:56	14.61	13.80	6.67	2.016	-72.2	1.34	0.0	
	12/15/2010	9:13	9:18	13.58	12.26	6.81	0.950	-193.3	0.38	0.0	
	1/14/2011	7:53	7:58	14.07	12.42	6.70	6.771	-195.8	0.62	0.0	
	2/14/2011	8:04	8:09	14.84	11.38	6.55	3.078	-135.2	0.44	0.0	
	3/15/2011	8:49	8:54	12.24	10.40	6.33	2.720	-140.7	0.60	0.3	
	4/14/2011	13:45	13:50	12.91	9.65	6.42	4.536	-357.4	-0.64	0.0	
5/18/2011	12:23	12:28	11.25	9.37	6.89	2.295	-302.3	0.45	0.0		
6/13/2011	10:18	10:23	11.83	10.68	6.65	3.088	-123.3	0.23	0.0		
7/11/2011	13:26	13:31	12.32	11.91	6.56	2.403	-360.5	1.78	0.0		
8/17/2011	11:02	11:07	12.77	14.34	6.64	2.794	-107.5	3.17	0.9		
9/27/2011	14:02	14:07	13.84	12.87	6.47	2.552	-310.3	1.55	0.0		
10/18/2011	13:03	13:08	13.82	13.68	6.83	2.503	-146.2	5.12	0.1	SVE running	
11/14/2011	13:06	13:11	14.31	14.36	6.89	1.326	-78.3	1.13	0.0		
12/6/2011	13:09	13:14	14.24	12.91	6.68	1.782	-88.5	0.97	0.0		
1/10/2012	13:41	13:46	13.91	11.91	6.97	4.464	-181.4	9.20	0.1		
1595-MWS8	12/16/2008	NR	NR	NR	NR	NR	NR	-29.5	0.93	0.0	
	1/13/2009	7:55	8:33	7.06	8.96	6.26	1.126	-39.9	0.17	0.0	
	1/20/2009	9:37	9:51	7.20	6.82	7.77	1.076	35.1	7.64	0.0	
	2/5/2009	9:53	10:39	7.70	9.93	6.64	1.599	2.5	0	0.0	
	3/4/2009	7:29	8:12	7.11	6.87	6.41	0.471	-28	0.73	0.0	
	3/25/2009	14:40	15:22	7.02	7.22	6.10	1.033	18.1	5.88	85.3	
	4/13/2009	14:34	14:39	6.89	8.13	6.78	0.443	-80.9	1.42	38.8	
	5/19/2009	10:23	10:28	7.13	10.28	6.45	0.858	-112.2	1.62	0.0	
	6/24/2009	13:03	13:08	7.51	14.51	6.20	1.093	-55.7	1.69	1.0	
	7/30/2009	9:15	9:20	8.08	16.40	6.29	0.745	-64.7	1.27	0.6	
	8/28/2009	9:56	10:01	8.64	17.33	6.08	0.785	-46.1	1.64	0.0	
	9/16/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 8.92 DTW 8.94, 0.02 of LNAPL, no sampling performed
	10/13/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 8.93 DTW 8.95, 0.02 of LNAPL, no sampling performed, LNAPL removed using system
	11/11/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.04 DTW 9.08, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	12/16/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.01 DTW 9.04, 0.03 of LNAPL, no sampling performed, LNAPL removed by bailer
	1/15/2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	DTP 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	2/8/2010	NR	NR	8.98	NR	NR	NR	NR	NR	NR	DTP 8.86, DTW 8.98, 0.12 of LNAPL, no sampling performed, LNAPL removed by bailer
	3/9/2010	14:55	NR	9.31	NR	NR	NR	NR	NR	NR	DTP, 9.31, DTW 9.33, 0.02 of LNAPL, no sampling performed, LNAPL removed by bailer
	4/13/2010	15:00	NR	8.97	NR	NR	NR	NR	NR	52.8	DTP 8.86, DTW 8.97, 0.11 of LNAPL, no sampling performed, LNAPL removed by bailer
	5/11/2010	14:50	14:55	9.18	10.33	6.24	0.434	-34.3	0.38	212.8	
	6/15/2010	15:07	15:12	9.46	13.01	6.08	0.611	-40.3	1.27	241.8	
	7/13/2010	15:20	15:25	9.38	14.98	6.10	0.307	-10.2	0.92	418.8	
	8/10/2010	11:35	11:40	9.28	14.36	6.26	0.408	55.5	0.56	215.1	
	9/14/2010	14:50	14:55	9.63	15.21	6.31	0.749	15.1	3.50	348.8	Had reading on interface probe. Checked with bailer, no product found. Sampled after all other wells for the day.
	10/12/2010	NR	NR	8.78	NR	NR	NR	NR	NR	333.4	DTP8.15, DTW 8.78 Not sampled
	11/15/2010	NR	NR	8.82	NR	NR	NR	NR	NR	379.6	DTP=8.57 DTW =8.82 NOT SAMPLED
	12/15/2010	NR	NR	8.41	NR	NR	NR	NR	NR	357.2	DTP=7.68 DTW= 8.41 Not sampled
1/14/2011	NR	NR	8.27	NR	NR	NR	NR	NR	88.8	DTP=8.24 DTW= 8.27 Not sampled	
2/14/2011	12:32	12:37	5.75	9.18	6.36	0.431	-39.00	1.69	74.7		
3/15/2011	NR	NR	7.74	NR	NR	NR	NR	NR	NR	DTP=6.90 DTW=7.74 Not sampled	
4/14/2011	14:38	14:43	7.33	7.62	6.20	0.514	-371.10	2.48	376.2		

**TABLE 3-4
SUMMARY OF DO/ORP/PID DATA
AREA 1595**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	5/18/2011	11:50	11:55	6.29	10.31	6.61	0.721	-274.30	0.95	223.9	
	6/13/2011	11:26	11:31	6.86	13.18	6.38	0.820	-57.50	4.29	284.3	
	7/11/2011	13:02	13:07	7.40	15.57	6.16	0.398	-350.50	2.02	236.6	
	8/17/2011	12:45	12:50	7.61	18.58	6.11	0.394	-60.50	1.69	210.4	
	9/27/2011	15:06	15:11	8.31	15.79	6.15	0.351	-283.50	1.47	274.6	
	10/18/2011	12:39	12:44	8.01	15.02	6.52	0.441	-137.60	3.75	11.1	SVE running
	11/14/2011	14:14	14:19	8.41	13.68	6.17	0.278	-47.40	0.68	6.90	
	12/6/2011	12:49	12:54	8.21	12.00	6.31	0.416	-49.50	1.47	0.30	
	1/10/2012	14:24	14:29	8.23	10.68	6.35	0.490	-93.10	2.42	152.80	
1595-MWS9	12/16/2008	NR	NR	NR	NR	NR	NR	251.6	8.03	0.0	
	1/13/2009	7:50	8:31	4.30	9.46	7.61	0.749	160.9	11.25	0.0	
	1/20/2009	9:18	9:34	4.00	8.83	7.86	0.656	4.6	13.18	0.1	
	2/5/2009	9:47	10:11	4.09	9.48	7.49	0.536	81.6	0.96	0.8	
	3/4/2009	7:35	8:20	3.91	9.89	7.44	0.435	61.0	11.92	0.0	
	3/25/2009	14:33	15:02	4.23	8.00	7.16	0.396	2.1	12.05	19.4	
	4/13/2009	14:41	14:46	3.78	8.41	7.84	0.261	8.1	12.43	4.8	
	5/19/2009	10:37	10:42	3.87	9.85	7.48	0.792	134.1	13.02	0.1	
	6/24/2009	13:16	13:21	4.06	15.65	6.81	0.689	19.4	1.95	2.6	
	7/30/2009	9:27	9:32	4.26	15.40	7.00	0.604	75.5	6.88	1.1	
	8/28/2009	9:05	9:10	4.45	16.34	6.83	0.820	119.1	2.36	0.0	
	9/16/2009	9:15	9:20	4.63	14.56	6.95	1.008	206.2	2.06	0.4	
	10/13/2009	9:20	9:25	4.53	12.61	6.94	0.590	127.3	3.92	0.1	
	11/11/2009	9:30	9:35	4.66	11.51	7.12	0.857	47.4	11.56	0.2	
	12/16/2009	13:10	13:15	4.58	10.69	6.96	0.697	45.9	10.83	0.0	
	1/15/2010	9:20	9:25	4.81	8.45	7.34	0.864	53.4	10.35	9.0	
	2/8/2010	13:25	13:30	4.54	7.48	7.17	0.583	9.7	11.85	0.8	
	3/9/2010	15:06	15:11	4.76	7.03	6.88	0.621	5.1	9.80	1.2	
	4/13/2010	15:07	15:12	4.61	8.85	7.19	0.803	106.9	13.51	3.4	
	5/11/2010	14:37	14:42	4.73	10.38	7.10	0.779	-23.9	11.73	3.3	
	6/15/2010	14:55	15:00	4.93	14.35	6.62	0.486	-59.0	7.50	60.0	
	7/13/2010	15:00	15:05	4.89	18.15	7.27	0.288	136.1	9.15	5.8	
	8/10/2010	11:59	12:04	4.87	17.71	7.26	0.322	26.2	8.98	0.9	
	9/14/2010	11:39	11:44	5.05	16.45	7.11	0.429	-25.1	8.86	1.3	
	10/12/2010	14:04	14:09	4.38	14.21	7.25	0.289	0.1	8.49	0.3	
	11/15/2010	11:18	11:23	4.51	11.87	7.47	1.355	139.10	10.89	0.0	
	12/15/2010	10:30	10:35	4.16	8.79	7.47	1.257	-119.90	0.51	1.3	
	1/14/2011	12:07	12:12	4.34	9.62	7.47	1.043	138.30	10.18	0.0	
	2/14/2011	12:24	12:29	4.53	8.89	7.33	0.962	100.20	8.09	0.0	
	3/15/2011	15:51	15:56	3.83	8.65	7.31	0.859	-130.80	10.01	0.3	
	4/14/2011	14:30	14:35	3.93	8.24	7.05	0.652	-342.90	10.86	0.0	
	5/18/2011	11:59	12:04	3.61	11.05	7.45	0.516	-198.30	11.22	1.0	
	6/13/2011	11:16	11:21	3.88	9.45	7.47	0.704	3.20	9.12	0.9	
	7/11/2011	13:10	13:15	4.09	16.01	7.68	0.418	-231.10	9.01	0.0	
	8/17/2011	12:33	12:38	4.09	16.55	7.05	0.215	-47.60	8.76	0.8	
	9/27/2011	14:53	14:58	4.38	14.98	7.04	0.425	-218.00	10.61	0.0	
	10/18/2011	12:51	12:56	4.21	13.34	7.31	1.569	99.20	13.32	1.9	SVE running
	11/14/2011	14:28	14:33	4.41	12.44	7.01	0.941	-3.80	13.30	24.0	
	12/6/2011	13:00	13:05	4.15	10.53	6.84	0.890	-59.70	12.36	0.0	
	1/10/2012	14:36	14:41	4.81	8.90	7.31	0.855	-72.20	11.31	19.9	
1595-OBG2	12/16/2008	NR	NR	10.45	NR	NR	NR	NR	NR	123.0	DTP 10.20', 0.25' LNAPL detected in well. 1595-PZ-10 used as replacement for well.
	1/6/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	LNAPL detected in well, 2.5", bailer and absorbent pad used to collect LNAPL. 1595-PZ-10 used as replacement for well.
1595-OBG9	12/16/2008	NR	NR	NR	NR	NR	NR	167.4	11.97	0.0	
	1/13/2009	8:42	9:20	7.00	8.02	5.11	0.114	248.6	11.62	0.0	
	1/20/2009	10:38	11:00	6.24	7.83	5.43	0.337	-12.1	2.23	0.9	
	2/5/2009	10:48	11:27	7.89	8.36	6.21	0.109	131.7	0.01	0.1	
	3/4/2009	8:26	9:14	6.83	6.35	5.85	0.065	161.1	11.59	0.0	
	3/25/2009	16:21	17:32	7.04	5.70	5.72	0.073	203.2	11.21	0.0	
	4/13/2009	14:07	14:12	6.64	7.02	6.37	0.050	154.7	13.42	0.0	
	5/19/2009	9:45	9:50	6.96	8.64	6.80	0.104	151.7	13.21	0.0	
	6/24/2009	13:30	13:35	7.68	10.93	5.91	0.126	147.9	9.33	0.0	
	7/30/2009	9:53	9:58	8.58	11.66	5.47	0.497	135.3	7.45	0.0	

TABLE 3-4
SUMMARY OF DO/ORP/PID DATA
AREA 1595

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
1595-PZ-10	8/28/2009	10:26	10:31	9.23	12.10	5.28	0.716	172.9	11.09	0.0	
	9/16/2009	9:40	9:45	9.86	11.74	5.52	0.742	128.0	6.78	0.0	
	10/13/2009	9:59	10:04	9.87	11.33	5.64	0.579	169.7	7.43	0.0	
	11/11/2009	10:06	10:11	9.96	11.13	5.47	0.393	105.5	8.48	0.0	
	12/16/2009	12:55	13:00	9.86	10.86	5.75	0.246	87.0	10.27	0.0	
	1/15/2010	10:25	10:30	10.36	9.20	6.13	0.272	60.4	8.74	0.9	
	2/8/2010	14:30	14:35	9.79	7.52	5.93	0.134	10.1	13.36	0.0	
	3/9/2010	13:56	14:01	10.24	8.57	5.18	0.138	138.7	12.08	0.6	
	4/13/2010	14:30	14:35	9.88	8.17	5.44	0.113	93.3	12.18	1.1	
	5/11/2010	14:03	14:08	10.24	8.60	5.46	0.148	112.9	10.74	0.0	
	6/15/2010	14:34	13:39	10.56	10.71	5.14	0.127	-3.0	11.94	0.3	
	7/13/2010	14:22	14:27	10.31	11.78	5.97	0.138	140.6	10.70	0.1	
	8/10/2010	12:54	12:59	10.16	12.89	6.44	0.165	124.8	10.67	0.0	
	9/14/2010	12:14	12:19	10.57	13.14	6.12	0.264	-15.5	8.75	0.0	
	10/12/2010	13:41	13:46	8.46	13.78	6.48	0.145	73.1	10.36	0.0	
	11/15/2010	12:01	12:06	9.17	13.14	6.11	0.137	145.80	8.53	0.0	
	12/15/2010	9:28	9:33	7.93	10.61	6.17	0.107	-131.00	5.21	0.3	
	1/14/2011	12:36	12:41	8.66	9.28	6.72	0.161	210.60	9.27	0.0	
	2/14/2011	8:25	8:30	9.45	9.46	6.27	0.159	58.20	7.71	0.0	
	3/15/2011	10:43	10:48	6.38	7.43	5.79	0.204	-130.60	11.27	0.1	
	4/14/2011	14:20	14:25	7.33	7.77	6.35	0.170	-316.30	12.01	0.0	
	5/18/2011	12:07	12:12	5.64	9.06	6.75	0.193	-207.90	10.89	0.3	
	6/13/2011	10:52	10:57	6.39	9.75	6.59	0.367	-5.70	7.36	0.2	
	7/11/2011	13:18	13:23	7.32	12.06	6.92	0.334	-270.20	9.10	0.1	
	8/17/2011	11:43	11:48	7.32	13.34	5.77	0.147	70.30	8.71	0.6	
	9/27/2011	14:41	14:46	8.61	13.33	5.42	0.123	-212.90	4.63	0.0	
	10/18/2011	12:17	12:22	8.05	13.38	6.30	0.221	-99.60	9.50	0.0	SVE running
	11/14/2011	13:47	13:52	8.68	13.71	6.16	0.101	155.30	6.57	0.0	
	12/6/2011	12:26	12:31	18.56	12.18	6.39	0.134	86.00	6.43	0.0	
	1/10/2012	14:02	14:07	8.36	10.23	6.06	0.142	-21.70	7.63	0.0	
	1595-PZ-10	1/13/2009	8:49	9:12	12.34	11.25	6.55	2.696	-17.6	0.05	0.0
1/20/2009		10:05	10:16	12.52	8.90	6.74	0.116	117.4	11.33	4.8	
2/5/2009		10:17	10:43	13.26	9.31	6.35	0.393	11.5	0.29	0.0	
3/4/2009		8:16	9:06	12.68	9.67	6.69	0.911	34.2	7.49	0.0	
3/25/2009		15:09	15:36	12.51	8.12	6.00	0.676	-25.1	3.24	0.0	
4/13/2009		14:21	14:26	12.24	8.36	6.77	0.141	0.7	3.78	0.0	
5/19/2009		9:34	9:39	12.46	9.10	7.14	0.936	-37.8	4.37	0.0	
6/24/2009		12:48	12:53	12.93	10.67	6.44	0.286	-77.6	0.38	15.9	
7/30/2009		9:40	9:45	13.81	11.19	6.64	0.215	-65.5	0.91	2.4	
8/28/2009		10:03	10:08	14.40	11.93	6.35	0.237	-61.2	6.16	1.7	
9/16/2009		9:25	9:30	14.19	11.89	6.41	0.266	46.6	0.75	1.7	
10/13/2009		9:45	9:50	15.17	11.39	6.95	2.055	-65.1	1.35	0.1	
11/11/2009		9:57	10:02	15.24	11.74	6.76	1.098	-120.1	11.61	0.3	
12/16/2009		11:50	11:55	15.39	11.37	7.14	1.287	-19.0	4.81	0.9	
1/15/2010		9:30	9:35	15.64	10.60	6.56	0.188	52.4	3.14	4.0	
2/10/2010		15:37	15:42	15.08	10.10	6.46	0.334	-15.1	1.43	1.2	
3/9/2010		13:43	13:48	15.76	10.09	6.36	0.204	-25.8	1.43	2.4	
4/13/2010		14:42	14:47	15.04	9.57	6.33	0.205	90.3	1.40	2.1	
5/11/2010		14:16	14:21	15.51	9.37	6.33	0.232	-57.0	0.59	4.9	
6/15/2010		14:24	14:29	15.85	10.63	6.41	0.351	-54.1	0.79	4.6	
7/13/2010		14:38	14:43	15.77	10.73	6.84	1.062	131.2	12.02	14.9	
8/10/2010		11:23	11:28	15.26	11.64	6.66	0.205	46.6	0.88	7.9	
9/14/2010		11:03	11:08	15.87	12.68	6.20	0.234	-83.3	1.24	18.0	
10/12/2010		13:52	13:57	14.26	13.29	6.94	1.313	7.0	3.31	36.4	
11/15/2010		11:33	11:38	14.58	13.35	6.17	0.155	-92.8	0.74	28.2	
12/15/2010		9:54	9:59	13.65	12.31	6.14	0.538	-195.5	0.02	19.3	
1/14/2011		9:26	9:31	14.03	11.63	6.36	0.224	-123.2	0.95	10.7	
2/14/2011		10:04	10:09	14.71	11.09	6.45	0.528	-52.2	1.48	24.4	
3/15/2011		11:21	11:26	12.43	10.07	6.68	1.901	-129.4	11.19	0.0	
4/14/2011		14:10	14:15	12.92	9.90	6.90	1.842	-310.6	9.74	7.4	
5/18/2011		11:40	11:45	11.55	9.37	7.33	2.361	227.2	9.12	3.8	
6/13/2011		11:02	11:07	12.08	9.81	6.32	0.234	-93	0.62	2.1	
7/11/2011		12:54	12:59	12.65	11.62	6.97	0.178	-343.9	2.33	0.1	
8/17/2011	12:20	12:25	13.11	12.31	6.28	0.168	-59.7	1.23	2.1		
9/27/2011	14:32	14:37	13.99	12.36	6.41	0.156	-294.7	1.48	5.6		
10/18/2011	12:27	12:32	14.03	12.34	7.01	1.876	-117.3	9.31	0.0	SVE running	
11/14/2011	13:59	14:04	14.21	13.12	6.64	1.088	19.5	0.90	0.0		
12/6/2011	12:40	12:45	14.38	12.28	6.52	2.300	26.8	2.63	0.0		
1/10/2012	14:13	14:18	14.04	11.76	6.40	1.731	-30.2	10.04	0.0		

Notes:

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million

**TABLE 3-5
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL
AREA 1795**

System A

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	267.30	42.56	0
December	370.88	59.06	0
January	221.86	35.33	0
Quarter Total	860.04	136.95	0
Cumulative Total	8,599.13	1,369.29	0.2

System B

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	0.00	0.00	0
December	0.00	0.00	0
January	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	1,225.25	195.10	0

Note: Area 1795B SVE system legs connected to 1795A as of December 1, 2009.

lb = pounds

gal = gallons

**TABLE 3-6
CUMULATIVE VOLUME OF TREATED GROUNDWATER
AREA 1795**

System A

Description	November	December	January	Total/Average
Gallons	0	0	0	0
Hours Operated	722	716	767	2,205
Days Operated	30	30	32	92
Average (gal/min)	0.000	0.000	0.000	0.000

System B

Description	November	December	January	Total/Average
Gallons	0	0	0	NA
Hours Operated	0	0	0	NA
Days Operated	0	0	0	NA
Average (gal/min)	NA	NA	NA	NA

Note: Area 1795B SVE system legs connected to 1795A as of December 1, 2009.

**TABLE 3-7
SUMMARY OF DO/ORP/PID DATA
AREA 1795**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	9/15/2010	12:10	12:15	14.93	9.64	6.65	0.962	73.10	2.85	0.0	
	10/11/2010	13:54	13:59	14.18	11.67	5.89	0.970	135.60	11.60	0.0	
	11/15/2010	12:52	12:57	13.51	10.65	5.75	0.034	189.90	10.03	0.0	
	12/13/2010	14:31	14:36	12.74	10.44	5.97	0.071	-143.60	8.64	0.0	
	1/18/2011	8:09	8:14	12.73	7.41	6.93	0.195	152.50	11.48	0.0	
	2/14/2011	10:39	10:44	13.51	8.08	6.67	0.610	-37.70	3.84	0.0	
	3/16/2011	10:46	10:51	12.20	6.22	6.70	0.109	-118.50	10.65	0.1	
	4/14/2011	13:19	13:24	11.05	6.19	6.43	0.034	-336.10	10.84	0.0	
	5/18/2011	10:58	11:03	9.76	6.86	7.03	0.026	-190.80	11.92	0.0	
	6/13/2011	9:30	9:35	10.38	7.94	6.17	0.027	180.20	8.84	0.0	
	7/11/2011	12:14	12:19	12.14	9.34	7.03	0.038	-294.40	10.58	0.0	
	8/17/2011	13:55	14:00	12.68	8.88	6.51	0.420	-11.90	4.69	0.0	
	9/27/2011	13:27	13:32	13.54	10.44	5.77	0.043	-180.10	12.60	0.0	
	10/18/2011	11:10	11:15	14.03	9.58	6.46	0.417	-65.20	8.29	0.0	
	11/15/2011	14:40	14:45	14.02	10.30	6.04	0.090	21.40	10.29	0.0	
	12/6/2011	11:47	11:52	14.37	9.81	6.59	0.051	37.30	10.26	0.0	
	1/10/2012	12:11	12:16	13.85	9.15	6.89	0.382	-106.50	3.89	0.0	
1795-MWS7	12/17/2008	NR	NR	NR	NR	NR	NR	-79.90	3.44	95.7	
	1/13/2009	14:03	14:32	6.40	10.14	6.67	1.698	-80.30	0.01	14.2	
	1/20/2009	14:20	14:35	7.03	9.76	6.58	0.734	-42.30	13.05	0.3	
	2/3/2009	11:03	11:28	5.37	6.05	6.29	0.168	126.50	0.06	0.0	
	3/3/2009	15:29	15:51	6.80	5.78	6.74	1.659	-80.20	1.87	106.0	
	3/26/2009	13:40	13:57	7.98	5.18	7.21	1.633	-85.00	2.19	83.6	
	4/13/2009	15:51	15:56	6.45	6.38	6.99	2.378	-16.80	6.58	109.0	
	5/18/2009	15:57	16:02	6.61	11.11	7.22	3.325	-39.80	0.82	40.8	
	6/23/2009	14:55	15:00	7.36	14.17	7.49	3.290	-98.70	0.61	266.0	
	7/30/2009	13:17	13:22	8.11	16.04	6.73	3.727	-90.70	0.96	26.8	
	8/28/2009	11:19	11:24	10.50	17.10	6.67	2.020	-95.50	0.67	24.8	
	9/16/2009	11:06	11:11	11.89	15.78	7.21	2.508	2.10	0.63	3.4	
	10/13/2009	11:06	11:11	11.98	14.90	7.02	2.873	-110.70	0.68	51.3	
	11/11/2009	13:06	13:11	12.01	14.51	7.05	1.847	-124.70	8.05	1452.0	
	12/16/2009	9:35	9:40	12.57	12.51	7.15	1.098	54.10	1.42	996.2	
	1/13/2010	9:47	9:52	13.08	10.10	7.07	3.031	-39.70	0.34	1852.1	
	2/8/2010	11:00	11:05	12.58	9.75	6.77	0.750	-36.40	1.20	779.4	
	3/8/2010	13:20	13:25	12.61	9.58	6.67	1.045	-57.90	1.33	731.7	
	4/12/2010	13:48	13:53	12.64	9.46	6.71	1.318	17.50	1.79	700.2	
	5/10/2010	13:11	13:16	13.26	9.80	6.73	3.640	-86.50	0.52	942.2	
	6/15/2010	13:24	13:29	13.46	13.03	6.29	3.340	-21.20	0.80	892.2	
	7/13/2010	12:10	12:15	13.41	13.53	6.79	8.150	-66.00	2.12	4573.0	
	8/11/2010	15:21	15:26	13.55	15.44	6.51	2.990	36.80	2.13	21.7	Leg 2 was hooked up
	9/15/2010	12:37	12:42	13.29	13.96	6.69	3.110	73.30	5.85	12.3	
	10/11/2010	13:06	13:11	11.86	17.18	6.38	0.860	-49.60	1.18	8.2	
	11/15/2010	13:54	13:59	12.83	15.07	6.39	0.966	-92.80	0.07	301.8	
	12/13/2010	14:11	14:16	12.01	12.78	6.69	0.900	-208.00	0.03	450.3	
	1/18/2011	8:42	8:47	12.85	10.50	6.70	0.641	-103.10	0.99	1.8	
	2/15/2011	11:48	11:53	13.34	10.50	7.03	2.643	-112.30	1.53	1.1	
	3/16/2011	11:17	11:22	10.68	7.72	6.89	0.886	-124.00	4.82	1.0	
	4/14/2011	13:36	13:41	11.92	8.15	6.38	0.082	-362.40	-0.33	1.9	
	5/18/2011	10:18	10:23	10.45	9.93	7.00	0.709	-284.00	1.07	2.4	
	6/13/2011	8:43	8:48	11.59	10.60	6.51	1.335	-127.60	0.48	0.7	
	7/11/2011	11:37	11:42	12.21	12.47	6.49	1.256	-379.40	1.34	1.0	
	8/17/2011	14:36	14:41	12.48	15.16	6.67	1.568	-72.80	0.94	1.4	
	9/27/2011	12:37	12:42	13.38	13.12	6.97	3.188	-307.80	1.05	0.8	
	10/18/2011	11:38	11:43	12.87	14.56	7.31	7.502	-258.80	7.90	4.1	
	11/15/2011	13:43	13:48	13.21	14.78	6.96	1.124	-52.30	1.68	35.6	
	12/6/2011	10:57	11:02	13.22	13.62	6.95	2.362	-70.20	1.19	238.7	
	1/10/2012	12:42	12:47	13.01	12.10	6.94	10.050	-178.80	2.52	68.7	

Notes:

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million

**TABLE 3-8
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL
AREAS 1995 AND 3805**

System A

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	0.00	0.00	0
December	0.00	0.00	0
January	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	16,143.35	2,570.60	<1

System B

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	0.00	0.00	0.06
December	0.00	0.00	0.03
January	0.00	0.00	0.03
Quarter Total	0.00	0.00	0.12
Cumulative Total	14,192.67	2,259.98	23.97

System C

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	0.07	0.01	0
December	0.01	0.00	0
January	0.00	0.00	0
Quarter Total	0.08	0.01	0
Cumulative Total	4,055.50	645.78	2

System D

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
August	0.00	0.00	0
September	0.00	0.00	0
October	0.00	0.00	0
Quarter Total	0.00	0.00	0
Cumulative Total	1,161.00	184.87	<1

Note: Area 3805A System shut down as of April 8, 2009.
Area 3805D System shut down as of August 6, 2008.

**TABLE 3-9
CUMULATIVE VOLUME OF TREATED GROUNDWATER
AREAS 1995 AND 3805**

System A

Description	November	December	January	Total/Average
Gallons	0	0	0	0
Hours Operated	0	0	0	0
Days Operated	0	0	0	0
Average (gal/min)	NA	NA	NA	NA

System B

Description	November	December	January	Total/Average
Gallons	0	0	0	0
Hours Operated	0	0	0	0
Days Operated	0	0	0	0
Average (gal/min)	NA	NA	NA	NA

System C

Description	November	December	January	Total/Average
Gallons	958	1,190	43	2,191
Hours Operated	725	580	773	2,078
Days Operated	30	24	32	87
Average (gal/min)	0.022	0.034	0.00092	0.018

System D

Description	November	December	January	Total/Average
Gallons	0	0	0	NA
Hours Operated	0	0	0	NA
Days Operated	0	0	0	NA
Average (gal/min)	NA	NA	NA	NA

Note: Area 3805A System shut down as of April 8, 2009.
Area 3805D System shut down as of August 6, 2008.

**TABLE 3-10
SUMMARY OF DO/ORP/PID DATA
AREAS 1995 AND 3805**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	5/11/2010	11:10	11:15	22.24	10.03	7.31	0.661	27.20	10.80	2.60	
	6/15/2010	13:16	13:21	22.96	10.65	6.75	1.834	-2.4	12.42	2.30	
	7/13/2010	9:28	9:33	23.21	9.73	7.03	2.631	132.0	11.63	2.40	
	8/11/2010	11:14	11:19	23.05	11.33	7.24	1.550	79.2	10.21	0.50	
	9/15/2010	10:15	10:20	22.96	10.79	7.34	1.109	41.7	10.92	0.00	
	10/12/2010	10:48	10:53	21.60	12.61	6.89	0.253	-3.3	9.71	0.30	
	11/16/2010	12:36	12:41	21.51	12.89	7.31	0.149	75.1	10.16	0.00	
	12/14/2010	13:36	13:41	21.14	11.83	7.14	0.158	-129.8	8.01	0.20	System off
	1/17/2011	10:00	10:05	21.17	11.24	7.72	0.181	26.4	10.08	0.00	
	2/16/2011	9:57	10:02	21.94	11.39	7.65	1.091	-9.8	10.52	0.00	
	3/16/2011	9:11	9:16	20.61	9.94	7.25	0.234	-126.5	11.32	0.10	
	4/14/2011	10:24	10:29	20.63	10.06	7.39	0.429	-330.2	11.72	0.00	
	5/18/2011	9:08	9:13	19.65	9.91	7.11	1.831	-187.9	10.35	0.00	
	6/15/2011	11:03	11:08	19.41	9.75	7.34	0.206	115.40	13.01	0.30	
	7/11/2011	10:10	10:15	19.89	10.54	6.88	3.268	-269.6	10.76	0.00	
	8/16/2011	10:20	10:25	20.36	11.53	76.06	1.703	-0.4	11.56	0.30	
	9/26/2011	14:36	14:41	21.06	10.97	7.04	1.914	-204.6	12.49	0.00	
	10/18/2011	9:42	9:47	21.35	11.12	7.48	2.766	-102.5	12.35	0.00	
	11/15/2011	12:40	12:45	21.51	12.45	7.58	1.114	24.6	11.91	0.00	
	12/6/2011	9:33	9:38	21.81	12.00	7.75	1.560	4.9	10.33	0.0	
	1/10/2012	10:20	10:25	21.68	11.39	7.76	1.258	-103.7	11.51	0.4	
1995-MWS10	12/19/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	12/31/2008	NR	NR	NR	NR	NR	NR	121.7	5.22	0.00	
	1/12/2009	13:14	13:46	20.55	11.71	6.79	0.380	-84.1	0.41	0.00	
	1/19/2009	10:35	10:50	20.60	11.53	7.29	-0.311	-67.7	0.67	0.00	
	2/4/2009	13:38	13:52	21.21	10.88	6.73	0.312	-41.1	0.21	102.60	
	3/4/2009	15:21	15:48	19.97	9.73	7.16	0.002	-1.7	11.51	50.90	
	3/27/2009	13:24	13:49	21.17	10.49	7.03	0.262	-143.7	0.21	1.90	
	4/14/2009	11:06	11:11	21.31	10.14	6.98	0.292	-122.2	0.92	63.40	
	5/18/2009	13:00	13:05	22.08	10.16	7.41	0.311	13.6	14.41	27.70	
	6/24/2009	9:25	9:30	20.89	10.84	5.86	0.002	228.9	10.98	40.50	
	7/29/2009	14:28	14:33	21.63	10.51	8.18	0.314	-72.4	1.69	21.40	
	8/27/2009	12:45	12:50	22.11	10.42	6.49	0.284	-53.4	1.79	34.30	
	9/15/2009	13:12	13:17	22.49	11.16	6.26	0.152	-15.1	12.63	80.10	
	10/12/2009	10:58	11:03	27.18	11.43	7.57	1.868	7.1	11.04	37.80	
	11/12/2009	10:42	10:47	22.98	12.61	8.27	0.756	-17.2	11.61	7.80	
	12/15/2009	11:25	11:30	23.76	10.47	7.94	1.264	94.00	4.25	24.20	
	1/12/2010	13:02	13:07	23.49	11.50	6.96	0.440	-17.0	1.37	161.30	
	2/9/2010	13:26	13:31	23.57	12.78	8.19	0.777	101.2	11.08	9.60	
	3/9/2010	11:47	11:52	23.96	11.15	7.55	1.805	125.0	11.23	53.60	Well bubbling
	4/13/2010	13:06	13:11	23.82	11.72	7.50	2.340	66.1	11.27	4.20	Well bubbling
	5/11/2010	10:38	10:43	24.11	11.56	7.42	2.600	-12.60	10.14	38.70	
	6/15/2010	12:46	12:51	24.38	11.57	7.52	2.021	-0.4	12.03	39.10	Well bubbling
	7/13/2010	9:07	9:12	26.82	11.34	7.76	1.187	56.9	10.54	11.40	
	8/11/2010	11:35	11:40	24.72	12.68	8.38	0.910	52.6	14.83	5.10	Well bubbling
	9/15/2010	9:53	9:58	24.60	12.97	8.49	0.951	71.3	12.50	10.30	Well bubbling
	10/12/2010	11:16	11:21	23.62	11.43	7.30	2.217	-12.1	2.55	13.80	Well bubbling
	11/16/2010	12:19	12:24	23.68	14.26	7.07	0.230	5.7	1.06	7.90	
	12/14/2010	14:07	14:12	23.38	13.43	6.57	0.172	-172.8	0.81	3.50	System off
	1/17/2011	10:27	10:32	22.39	11.46	7.30	2.037	-275.1	0.30	5.80	Well bubbling
	2/16/2011	9:30	9:35	23.23	12.67	7.50	1.623	-85.0	8.73	0.40	Well bubbling
	3/16/2011	8:54	8:59	22.21	12.44	8.17	1.785	-130.2	11.82	2.30	Well bubbling
	4/14/2011	10:10	10:15	22.48	17.35	6.97	1.156	-321.2	8.33	25.50	
	5/18/2011	8:52	8:57	21.41	12.06	8.14	0.901	-185.2	12.10	3.90	Well bubbling
	6/15/2011	11:26	11:31	21.47	11.52	6.88	0.759	130.50	10.55	4.40	
	7/11/2011	9:55	10:00	21.97	11.18	7.10	0.614	-366.0	8.98	3.30	
	8/16/2011	9:51	9:56	22.64	10.91	7.43	1.195	-81.5	2.28	2.30	
	9/26/2011	14:11	14:16	23.21	10.76	6.05	0.223	-237.5	1.55	17.40	
	10/18/2011	9:22	9:27	23.41	11.93	8.29	0.626	-105.9	13.64	2.6	
	11/15/2011	12:17	12:22	23.44	11.45	7.58	0.670	-41.6	2.97	1.3	
	12/6/2011	9:16	9:21	23.70	11.21	7.99	1.236	-52.9	4.17	1.8	
	1/10/2012	10:44	10:49	23.51	11.72	7.68	1.004	-101.2	10.64	1.2	Well bubbling

**TABLE 3-11
SUMMARY OF ESTIMATED CONTAMINANT REMOVAL
AAFES STATION**

Monitoring Date	Soil Vapor Contaminant Recovery as Gasoline Equivalent (lb)	Soil Vapor Contaminant Recovery as Gasoline Equivalent (gal)	LNAPL Recovery (gal)
November	0.76	0.12	0
December	0.41	0.07	0
January	0.61	0.10	0
Quarter Total	1.78	0.28	0
Cumulative Total^(a)	15,076.28	2,400.68	0

^(a) = Total includes contaminant removed during operation of the dual-phase extraction system only. An additional 1,426 gallons of gasoline equivalent was removed during operation of the pumpand treat system (March 1996-December 2001).

**TABLE 3-12
CUMULATIVE VOLUME OF TREATED GROUNDWATER
AAFES STATION**

Description	November	December	January	Total/Average
Gallons	0	0	0	0
Hours Operated	718	601	798	2,117
Days Operated	30	25	33	88
Average (gal/min)	0.00	0.00	0.00	0.00

Note: The system was reactivated on April 4, 2011, while the ozone system undergoes repairs.

**TABLE 3-13
SUMMARY OF DO/ORP/PID DATA
AAFES STATION (BUILDING P-2140)**

Monitoring Well	Date	Start Time	End Time	DTW	Temp	pH	Conductivity	ORP (mV)	DO	PID (ppm)	Notes
	6/15/2011	7:09	7:14	18.81	10.68	6.96	1.441	150.40	5.22	0.30	
	7/11/2011	8:03	8:08	19.43	10.94	6.74	2.750	-275.10	3.17	0.00	
	8/16/2011	12:15	12:20	20.19	11.04	7.08	1.847	24.50	9.56	0.10	
	9/26/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	10/18/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	11/14/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	12/6/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	1/10/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
2140-MW15	12/16/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	1/12/2009	15:21	15:42	8.20	10.59	7.35	3.759	61.10	0.42	0.00	
	1/19/2009	15:20	15:30	8.40	9.80	8.81	0.075	6.20	12.62	0.50	
	2/2/2009	13:32	13:50	8.93	9.63	5.66	0.047	168.60	0.59	0.00	
	3/5/2009	9:41	10:20	8.18	8.90	6.95	0.036	84.30	11.67	0.00	
	3/26/2009	8:40	9:05	8.31	8.38	6.58	0.365	29.50	10.63	0.00	
	4/13/2009	12:17	12:22	8.52	9.02	7.16	1.155	200.20	11.27	0.00	
	5/19/2009	11:28	11:32	8.93	9.20	7.68	2.056	176.50	13.84	0.00	
	6/24/2009	14:31	14:36	9.42	10.00	7.35	2.624	69.10	11.32	0.00	
	7/29/2009	16:01	16:06	10.04	11.05	8.54	0.398	95.90	9.19	0.00	
	8/27/2009	8:57	9:03	10.60	11.47	6.73	1.008	152.30	11.86	0.00	
	9/15/2009	14:44	14:49	10.96	11.08	7.12	2.322	2.80	3.86	0.00	
	10/12/2009	13:45	13:50	10.89	11.79	6.98	1.215	51.90	2.25	0.00	
	11/11/2009	12:02	12:07	10.64	11.64	7.42	0.918	55.40	8.36	0.10	
	12/14/2009	14:15	14:20	10.56	11.21	7.61	1.298	-129.00	2.65	0.10	
	1/14/2010	9:42	9:47	10.72	10.29	7.99	0.774	79.60	7.70	0.00	
	2/8/2010	8:56	9:01	10.04	9.40	7.25	0.351	113.20	10.51	0.10	
	3/8/2010	9:56	10:01	10.48	9.11	7.02	1.179	146.30	10.06	0.00	
	4/12/2010	10:07	10:12	9.91	8.78	7.21	0.316	4.60	11.58	0.00	
	5/10/2010	10:06	10:11	10.38	9.13	7.12	0.792	138.60	7.40	0.00	
	6/14/2010	10:12	10:17	10.93	10.24	6.71	1.527	42.20	10.57	0.00	
	7/13/2010	10:18	10:23	11.07	10.25	7.07	2.655	-7.30	9.60	0.00	
	8/10/2010	10:25	10:30	11.91	11.34	7.32	1.700	86.80	7.31	0.00	
	9/14/2010	13:00	13:05	11.32	11.16	7.05	2.360	24.90	3.98	0.00	
	10/11/2010	10:34	10:39	10.04	13.15	6.91	0.481	128.70	8.83	0.00	AS/SVE turned off ozone on
	11/15/2010	9:54	9:59	10.14	11.91	6.96	2.959	-41.70	2.60	0.00	
	12/13/2010	9:25	9:30	9.68	11.18	7.28	0.223	-94.70	6.61	0.00	
	1/17/2011	11:30	11:35	10.02	11.21	7.28	2.938	-192.00	3.20	0.00	
	2/15/2011	8:17	8:22	10.47	10.82	6.80	4.901	47.10	5.12	0.00	
	3/16/2011	12:26	12:31	8.84	10.41	7.32	3.682	-157.80	6.88	0.00	
	4/14/2011	7:43	7:48	8.86	10.11	6.93	5.298	-290.10	1.98	0.00	
	5/17/2011	9:11	9:16	8.41	9.68	7.24	3.178	-171.40	5.83	0.00	
	6/15/2011	7:19	7:24	9.23	9.93	6.87	5.146	174.60	7.46	0.00	
	7/11/2011	8:10	8:15	9.88	10.75	6.93	2.009	-268.70	7.71	0.00	
	8/16/2011	12:00	12:05	10.49	11.80	7.05	1.563	22.50	11.13	0.00	
	9/26/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	10/18/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	11/14/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	12/6/2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access
	1/10/2012	NR	NR	NR	NR	NR	NR	NR	NR	NR	Unable to access

Notes:

- NR = Not Recorded
- DTW = Depth to Water (feet)
- Temp = Temperature (degrees Fahrenheit)
- ORP = Oxidation Reduction Potential
- mV = Millivolts
- DO = Dissolved Oxygen (milligrams per liter)
- PID = Photoionization Detector
- ppm = Parts Per Million

APPENDIX A

Summary of Operation and Maintenance Data

Area 1295

Table A-1
Area 1295 Ozone Injection System
November 2011 - January 2012 O&M Data
Fort Drum, NY

Date	Time	System Condition	Injecting at Point	Air Flow Rate (scfm)	Air Flow Pressure (psi)	Notes
11/01/11	830	On	3.0	2.2	4.0	
11/02/11	1211	On	7.0	2.4	4.0	
11/03/11	911	On	1.0	2.2	5.5	
11/04/11	750	On	1.0	2.2	6.0	
11/07/11	906	On	3.0	2.2	4.0	
11/08/11	934	On	1.0	2.2	5.5	
11/09/11	1020	On	5.0	2.2	4.0	
11/10/11	732	On	1.0	2.2	6.0	
11/11/11	915	On	1.0	2.2	6.0	
11/14/11	748	On	1.0	2.2	5.5	
11/15/11	948	On	1.0	2.4	5.5	
11/16/11	1025	On	1.0	2.2	6.0	
11/17/11	1000	On	1.0	2.2	6.0	
11/18/11	745	On	1.0	2.2	6.0	
11/21/11	843	On	1.0	2.2	6.0	
11/22/11	1150	On	7.0	2.0	3.5	
11/28/11	1035	On	1.0	2.2	5.5	
11/29/11	850	On	3.0	2.4	4.0	
11/30/11	1143	On	6.0	2.0	3.0	
12/01/11	-	Off	-	-	-	Off due to weather conditions
12/02/11	933	On	1.0	2.2	6.0	System operational
12/05/11	1115	On	1.0	2.2	5.5	
12/06/11	920	On	4.0	2.0	3.5	
12/07/11	720	On	1.0	2.2	6.0	
12/08/11	757	On	1.0	2.2	6.0	
12/09/11	1257	On	7.0	2.4	4.0	
12/12/11	900	On	1.0	2.2	5.5	
12/13/11	814	On	1.0	2.2	6.0	
12/14/11	1211	On	9.0	2.2	2.5	
12/15/11	945	On	1.0	2.2	6.0	
12/16/11	810	On	2.0	2.2	3.0	
12/19/11	853	On	1.0	5.5	6.0	
12/20/11	804	On	3.0	2.4	3.5	
12/21/11	543	On	1.0	2.2	6.0	
12/27/11	626	On	1.0	2.2	6.0	
12/29/11	NR	Off	NR	NR	NR	Off due to weather conditions
12/30/11	NR	Off	NR	NR	NR	Off due to weather conditions
01/03/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/04/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/05/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/06/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/09/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/10/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/11/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/12/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/13/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/16/12	NR	Off	NR	NR	NR	Off due to weather conditions
01/17/12	NR	Off	NR	NR	NR	Waiting for power drop
01/18/12	NR	Off	NR	NR	NR	Waiting for power drop
01/19/12	NR	Off	NR	NR	NR	Waiting for power drop
01/23/12	NR	Off	NR	NR	NR	Waiting for power drop
01/24/12	NR	Off	NR	NR	NR	Waiting for power drop
01/25/12	NR	Off	NR	NR	NR	Waiting for power drop
01/26/12	NR	Off	NR	NR	NR	Waiting for power drop
01/27/12	NR	Off	NR	NR	NR	Waiting for power drop
01/30/12	NR	Off	NR	NR	NR	Waiting for power drop
01/31/12	NR	Off	NR	NR	NR	Waiting for power drop

Notes:

NR = Not Recorded.

scfm = Standard Cubic Feet per Minute

psi = Pressure per Square Inch

Table A-2
LNAPL Gauging
November 2011 - January 2012 O&M Data
Fort Drum, NY

Site	Well ID	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Depth to Bottom (feet)	Comments
1595	4-4S	11/4/2011	-	10.04	0.00	13.25	
		11/9/2011	-	10.29	0.00	13.25	
		11/17/2011	-	10.51	0.00	13.25	
		12/1/2011	-	10.73	0.00	13.25	
		12/7/2011	-	10.46	0.00	13.25	
		12/16/2011	-	10.21	0.00	13.25	
		1/6/2012	-	10.28	0.00	13.25	
		1/26/2012	9.60	9.85	0.25	13.25	Product confirmed with bailer and removed
1595	4-5S	11/4/2011	-	9.37	0.00	14.14	
		11/9/2011	-	9.96	0.00	14.14	
		11/17/2011	-	9.79	0.00	14.14	
		12/1/2011	-	10.01	0.00	14.14	
		12/7/2011	-	9.91	0.00	14.14	
		12/16/2011	-	10.41	0.00	14.14	
		1/6/2012	-	10.37	0.00	14.14	
		1/26/2012	-	9.88	0.00	14.14	
1595	MWS8	11/4/2011	NP	7.13	0.00	18.80	
		11/9/2011	NP	8.34	0.00	18.80	
		11/17/2011	NP	8.41	0.00	18.80	
		12/1/2011	NP	8.38	0.00	18.80	
		12/7/2011	NP	8.13	0.00	18.80	
		12/16/2011	NP	8.17	0.00	18.80	
		1/6/2012	NP	8.17	0.00	18.80	
		1/26/2012	NP	7.79	0.00	18.80	
1795	PZ-17	11/4/2011	-	12.73	0.00	NR	
		11/9/2011	-	13.09	0.00	NR	
		11/17/2011	-	13.20	0.00	NR	
		12/1/2011	-	13.53	0.00	NR	
		12/7/2011	-	13.76	0.00	NR	
		12/16/2011	-	13.15	0.00	NR	
		1/6/2012	-	13.10	0.00	NR	
		1/26/2012	-	12.10	0.00	NR	
1795	5-4m	11/4/2011	-	9.59	0.00	12.20	
		11/9/2011	-	8.98	0.00	12.20	
		11/17/2011	-	9.07	0.00	12.20	
		12/1/2011	-	9.58	0.00	12.20	
		12/7/2011	-	10.05	0.00	12.20	
		12/16/2011	-	8.46	0.00	12.20	
		1/5/2012	-	8.42	0.00	12.20	
		1/26/2012	-	7.83	0.00	12.20	
1795	5-5m	11/4/2011	-	12.95	0.00	16.89	
		11/9/2011	-	13.18	0.00	16.89	
		11/17/2011	-	13.20	0.00	16.89	
		12/1/2011	-	12.92	0.00	16.89	
		12/7/2011	-	13.02	0.00	16.89	
		12/16/2011	-	12.84	0.00	16.89	
		1/6/2012	-	12.89	0.00	16.89	
		1/26/2012	-	12.05	0.00	16.89	

Table A-2
LNAPL Gauging
November 2011 - January 2012 O&M Data
Fort Drum, NY

Site	Well ID	Date	Depth to Product (feet)	Depth to Water (feet)	Apparent Product Thickness (feet)	Depth to Bottom (feet)	Comments
3805B	5-5M	11/4/2011	-	14.11	0.00	21.76	
		11/9/2011	-	14.13	0.00	21.76	
		11/17/2011	-	14.21	0.00	21.76	
		12/1/2011	-	14.29	0.00	21.76	
		12/7/2011	-	14.64	0.00	21.76	
		12/16/2011	-	14.78	0.00	21.76	
		1/6/2012	-	14.46	0.00	21.76	
		1/26/2012	-	14.04	0.00	21.76	
3805B	5-8M	11/4/2011	-	14.82	0.00	22.35	
		11/9/2011	-	14.91	0.00	22.35	
		11/17/2011	-	15.13	0.00	22.35	
		12/1/2011	-	15.35	0.00	22.35	
		12/7/2011	-	15.30	0.00	22.35	
		12/16/2011	-	15.51	0.00	22.35	
		1/6/2012	-	15.19	0.00	22.35	
		1/26/2012	-	14.84	0.00	22.35	
3805B	6-2M	11/4/2011	-	13.17	0.00	20.30	
		11/9/2011	-	13.19	0.00	20.30	
		11/17/2011	-	13.44	0.00	20.30	
		12/1/2011	-	13.79	0.00	20.30	
		12/7/2011	-	13.76	0.00	20.30	
		12/16/2011	-	13.82	0.00	20.30	
		1/6/2012	-	13.52	0.00	20.30	
		1/26/2012	-	12.13	0.00	20.30	
3805B	6-10M	11/4/2011	-	14.63	0.00	21.74	
		11/9/2011	-	14.78	0.00	21.74	
		11/17/2011	-	15.16	0.00	21.74	
		12/1/2011	-	15.19	0.00	21.74	
		12/7/2011	-	15.23	0.00	21.74	
		12/16/2011	-	15.27	0.00	21.74	
		1/6/2012	-	15.16	0.00	21.74	
		1/26/2012	-	14.70	0.00	21.74	
3805B	9-1M	11/4/2011	NA	11.21	NA	18.90	
		11/9/2011	NA	11.39	NA	18.90	
		11/17/2011	NA	11.81	NA	18.90	
		12/1/2011	NA	11.90	NA	18.90	
		12/7/2011	NA	12.16	NA	18.90	
		12/16/2011	NA	12.33	NA	18.90	
		1/6/2012	NA	11.80	NA	18.90	
		1/26/2012	NA	11.26	NA	18.90	
3805B	PZ-10-2	11/4/2011	14.01	14.11	0.10	21.60	LNAPL confirmed with bailer and removed
		11/9/2011	14.11	14.24	0.13	21.60	LNAPL confirmed with bailer and removed
		11/17/2011	14.49	14.61	0.12	21.60	LNAPL confirmed with bailer and removed
		12/1/2011	14.77	14.96	0.19	21.60	LNAPL confirmed with bailer and removed
		12/7/2011	14.69	14.80	0.11	21.60	LNAPL confirmed with bailer and removed
		12/16/2011	14.66	14.78	0.12	21.60	LNAPL confirmed with bailer and removed
		1/6/2012	14.45	14.54	0.09	21.60	LNAPL confirmed with bailer and removed
		1/26/2012	14.03	14.06	0.03	21.60	LNAPL confirmed with bailer and removed

Notes:
NR = Not Recorded

APPENDIX B

Summary of Well Gauging Results and Operation and Maintenance Data

Area 1595

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-1-1S	11/30/2005	623.15	4.38	618.77	-	-	618.77
	01/26/2006	623.15	4.42	618.73	-	-	618.73
	03/29/2006	623.15	NR	-	NR	-	-
	03/30/2006	623.15	NR	-	NR	-	-
	04/10/2006	623.15	4.64	618.51	-	-	618.51
	05/11/2006	623.15	4.83	618.32	-	-	618.32
	07/01/2008	623.15	5.20	617.95	-	-	617.95
	09/18/2008	623.15	4.98	618.17	-	-	618.17
	10/23/2008	623.15	5.04	618.11	-	-	618.11
	12/30/2008	623.15	2.39	620.76	-	-	620.76
	01/29/2009	623.15	3.22	619.93	-	-	619.93
	02/24/2009	623.15	2.80	620.35	-	-	620.35
	03/27/2009	623.15	2.70	620.45	-	-	620.45
	04/28/2009	623.15	4.49	618.66	-	-	618.66
	05/20/2009	623.15	2.53	620.62	-	-	620.62
	06/25/2009	623.15	3.18	619.97	-	-	619.97
	07/21/2009	623.15	4.41	618.74	-	-	618.74
	08/25/2009	623.15	4.80	618.35	-	-	618.35
	09/15/2009	623.15	4.96	618.19	-	-	618.19
	10/14/2009	623.15	5.92	617.23	-	-	617.23
	11/10/2009	623.15	4.91	618.24	-	-	618.24
	12/14/2009	623.15	4.79	618.36	-	-	618.36
	01/11/2010	623.15	6.04	617.11	-	-	617.11
	02/10/2010	623.15	5.79	617.36	-	-	617.36
	03/10/2010	623.15	4.85	618.30	-	-	618.30
	04/14/2010	623.15	5.80	617.35	-	-	617.35
	05/12/2010	623.15	5.97	617.18	-	-	617.18
	06/17/2010	623.15	6.21	616.94	-	-	616.94
	07/14/2010	623.15	6.11	617.04	-	-	617.04
	08/09/2010	623.15	6.07	617.08	-	-	617.08
	09/16/2010	623.15	6.36	616.79	-	-	616.79
	10/13/2010	623.15	4.89	618.26	-	-	618.26
	11/16/2010	623.15	5.53	617.62	-	-	617.62
	12/16/2010	623.15	NR	-	-	NR	-
	01/13/2011	623.15	NR	-	-	NR	-
	03/14/2011	623.15	NR	-	-	NR	-
	04/12/2011	623.15	NR	-	-	NR	-
	05/19/2011	623.15	NR	-	-	NR	-
	06/20/2011	623.15	NR	-	-	NR	-
	07/13/2011	623.15	NR	-	-	NR	-
	08/11/2011	623.15	NR	-	-	NR	-
09/30/2011	623.15	4.34	618.81	-	-	618.81	
10/19/2011	623.15	4.16	618.99	-	-	618.99	
11/17/2011	623.15	4.68	618.47	-	-	618.47	
12/07/2011	623.15	4.77	618.38	-	-	618.38	
01/09/2012	623.15	NR	-	-	NR	-	
1595-1-2S	11/30/2005	625.48	7.06	618.42	-	-	618.42
	01/26/2006	625.48	6.92	618.56	-	-	618.56
	03/29/2006	625.48	NR	-	NR	-	-
	03/30/2006	625.48	NR	-	NR	-	-
	04/10/2006	625.48	7.13	618.35	-	-	618.35
	05/11/2006	625.48	7.33	618.15	-	-	618.15
	07/01/2008	625.48	7.05	618.43	-	-	618.43
	09/18/2008	625.48	7.46	618.02	7.40	0.06	618.07
	10/23/2008	625.48	7.87	617.61	7.86	0.01	617.62
	12/30/2008	625.48	5.40	620.08	SHEEN	-	620.08
	01/29/2009	625.48	6.23	619.25	-	-	619.25
	02/24/2009	625.48	6.15	619.33	-	-	619.33
	03/27/2009	625.48	6.12	619.36	-	-	619.36
	04/28/2009	625.48	7.08	618.40	-	-	618.40
	05/20/2009	625.48	6.11	619.37	-	-	619.37

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/25/2009	625.48	6.27	619.21	-	-	619.21
	07/21/2009	625.48	7.12	618.36	-	-	618.36
	08/25/2009	625.48	7.50	617.98	-	-	617.98
	09/15/2009	625.48	7.61	617.87	-	-	617.87
	10/14/2009	625.48	8.47	617.01	-	-	617.01
	11/01/2009	625.48	7.42	618.06	-	-	618.06
	12/14/2009	625.48	7.29	618.19	-	-	618.19
	01/11/2010	625.48	8.61	616.87	-	-	616.87
	02/10/2010	625.48	8.33	617.15	-	-	617.15
	03/10/2010	625.48	8.61	616.87	-	-	616.87
	04/14/2010	625.48	8.34	617.14	-	-	617.14
	05/12/2010	625.48	8.49	616.99	-	-	616.99
	06/17/2010	625.48	6.74	618.74	-	-	618.74
	07/14/2010	625.48	8.68	616.80	-	-	616.80
	08/09/2010	625.48	8.63	616.85	-	-	616.85
	09/16/2010	625.48	8.87	616.61	-	-	616.61
	10/13/2010	625.48	7.64	617.84	-	-	617.84
	11/16/2010	625.48	8.12	617.36	-	-	617.36
	12/16/2010	625.48	NR	-	NR	-	-
	01/13/2011	625.48	NR	-	NR	-	-
	03/14/2011	625.48	NR	-	NR	-	-
	04/12/2011	625.48	NR	-	NR	-	-
	05/19/2011	625.48	NR	-	NR	-	-
	06/20/2011	625.48	NR	-	NR	-	-
	07/13/2011	625.48	NR	-	NR	-	-
	08/11/2011	625.48	NR	-	NR	-	-
	09/30/2011	625.48	6.88	618.60	-	-	618.60
	10/19/2011	625.48	6.71	618.77	-	-	618.77
	11/17/2011	625.48	7.28	618.20	-	-	618.20
	12/07/2011	625.48	7.03	618.45	-	-	618.45
	01/09/2012	625.48	NR	-	NR	-	-
1595-1-3S	11/30/2005	632.55	10.76	621.79	-	-	621.79
	01/26/2006	632.55	10.28	622.27	-	-	622.27
	03/29/2006	632.55	NR	-	NR	-	-
	03/30/2006	632.55	NR	-	NR	-	-
	04/10/2006	632.55	10.47	622.08	-	-	622.08
	05/11/2006	632.55	10.71	621.84	-	-	621.84
	07/01/2008	632.55	11.05	621.50	-	-	621.50
1595-1-4S	11/30/2005	634.07	13.63	620.44	-	-	620.44
	01/26/2006	634.07	13.09	620.98	-	-	620.98
	03/29/2006	634.07	NR	-	NR	-	-
	03/30/2006	634.07	NR	-	NR	-	-
	04/10/2006	634.07	13.26	620.81	-	-	620.81
	05/11/2006	634.07	13.48	620.59	-	-	620.59
	07/01/2008	634.07	13.80	620.27	-	-	620.27
	09/18/2008	634.07	13.10	620.97	-	-	620.97
	10/23/2008	634.07	13.50	620.57	-	-	620.57
	12/30/2008	634.07	11.64	622.43	-	-	622.43
	01/29/2009	634.07	12.35	621.72	-	-	621.72
	02/24/2009	634.07	12.28	621.79	-	-	621.79
	03/27/2009	634.07	12.34	621.73	-	-	621.73
	04/28/2009	634.07	12.91	621.16	-	-	621.16
	05/20/2009	634.07	12.26	621.81	-	-	621.81
	06/25/2009	634.07	13.16	620.91	-	-	620.91
	07/21/2009	634.07	12.92	621.15	-	-	621.15
	08/25/2009	634.07	13.52	620.55	-	-	620.55
	09/15/2009	634.07	13.83	620.24	-	-	620.24
	10/14/2009	634.07	14.73	619.34	-	-	619.34
	11/10/2009	634.07	13.93	620.14	-	-	620.14
	12/14/2009	634.07	13.61	620.46	-	-	620.46

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2010	634.07	15.02	619.05	-	-	619.05
	02/10/2010	634.07	14.74	619.33	-	-	619.33
	03/10/2010	634.07	13.94	620.13	-	-	620.13
	04/14/2010	634.07	14.57	619.50	-	-	619.50
	05/12/2010	634.07	14.78	619.29	-	-	619.29
	06/17/2010	634.07	15.07	619.00	-	-	619.00
	07/14/2010	634.07	15.06	619.01	-	-	619.01
	08/09/2010	634.07	15.02	619.05	-	-	619.05
	09/16/2010	634.07	15.26	618.81	-	-	618.81
	10/13/2010	634.07	14.14	619.93	-	-	619.93
	11/16/2010	634.07	14.46	619.61	-	-	619.61
	12/16/2010	634.07	NR	-	NR	-	-
	01/13/2011	634.07	NR	-	NR	-	-
	03/14/2011	634.07	NR	-	NR	-	-
	04/12/2011	634.07	NR	-	NR	-	-
	05/19/2011	634.07	NR	-	NR	-	-
	06/20/2011	634.07	NR	-	NR	-	-
	07/13/2011	634.07	NR	-	NR	-	-
	08/11/2011	634.07	NR	-	NR	-	-
	09/30/2011	634.07	13.08	620.99	-	-	620.99
	10/19/2011	634.07	13.17	620.90	-	-	620.90
	11/17/2011	634.07	13.77	620.30	-	-	620.30
	12/07/2011	634.07	14.54	619.53	-	-	619.53
	01/09/2012	634.07	NR	-	NR	-	-
1595-2-1S	11/30/2005	630.16	7.08	623.08	-	-	623.08
	01/26/2006	630.16	6.83	623.33	-	-	623.33
	03/29/2006	630.16	NR	-	NR	-	-
	03/30/2006	630.16	NR	-	NR	-	-
	04/10/2006	630.16	7.14	623.02	7.10	0.04	623.05
	05/11/2006	630.16	7.34	622.82	-	-	622.82
	07/01/2008	630.16	7.75	622.41	-	-	622.41
1595-2-2S	11/30/2005	629.84	7.58	622.26	6.96	0.62	622.73
	01/26/2006	629.84	5.54	624.30	-	-	624.30
	03/29/2006	629.84	NR	-	NR	-	-
	03/30/2006	629.84	NR	-	NR	-	-
	04/10/2006	629.84	5.76	624.08	-	-	624.08
	05/11/2006	629.84	6.22	623.62	5.96	0.26	623.82
	07/01/2008	629.84	6.45	623.39	-	-	623.39
	09/18/2008	629.84	6.82	623.02	-	-	623.02
	10/23/2008	629.84	7.10	622.74	-	-	622.74
	12/30/2008	629.84	4.66	625.18	4.65	0.01	625.19
	01/29/2009	629.84	5.82	624.02	-	-	624.02
	02/24/2009	629.84	5.65	624.19	-	-	624.19
	03/27/2009	629.84	5.52	624.32	-	-	624.32
	04/28/2009	629.84	6.74	623.10	-	-	623.10
	05/20/2009	629.84	5.96	623.88	-	-	623.88
	06/25/2009	629.84	6.31	623.53	-	-	623.53
	07/21/2009	629.84	7.47	622.37	-	-	622.37
	08/25/2009	629.84	8.02	621.82	-	-	621.82
	09/15/2009	629.84	7.96	621.88	7.92	0.04	621.91
	10/14/2009	629.84	8.62	621.22	-	-	621.22
	11/10/2009	629.84	8.49	621.35	-	-	621.35
	12/14/2009	629.84	8.45	621.39	-	-	621.39
	01/11/2010	629.84	8.79	621.05	-	-	621.05
	02/10/2010	629.84	8.45	621.39	-	-	621.39
	03/10/2010	629.84	8.79	621.05	-	-	621.05
	04/14/2010	629.84	8.43	621.41	-	-	621.41
	05/12/2010	629.84	8.67	621.17	-	-	621.17
	06/17/2010	629.84	8.99	620.85	-	-	620.85
	07/14/2010	629.84	8.88	620.96	-	-	620.96

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/09/2010	629.84	8.65	621.19	-	-	621.19
	09/16/2010	629.84	8.91	620.93	-	-	620.93
	10/13/2010	629.84	7.49	622.35	-	-	622.35
	11/16/2010	629.84	8.19	621.65	-	-	621.65
	12/16/2010	629.84	NR	-	NR	-	-
	01/13/2011	629.84	NR	-	NR	-	-
	03/14/2011	629.84	NR	-	NR	-	-
	04/12/2011	629.84	NR	-	NR	-	-
	05/19/2011	629.84	NR	-	NR	-	-
	06/20/2011	629.84	NR	-	NR	-	-
	07/13/2011	629.84	NR	-	NR	-	-
	08/11/2011	629.84	NR	-	NR	-	-
	09/30/2011	629.84	6.91	622.93	-	-	622.93
	10/19/2011	629.84	6.89	622.95	-	-	622.95
	11/17/2011	629.84	7.49	622.35	-	-	622.35
	12/07/2011	629.84	7.05	622.79	-	-	622.79
	01/09/2012	629.84	NR	-	NR	-	-
1595-2-3S	11/30/2005	631.58	7.28	624.30	-	-	624.30
	01/26/2006	631.58	6.81	624.77	-	-	624.77
	03/29/2006	631.58	NR	-	NR	-	-
	03/30/2006	631.58	NR	-	NR	-	-
	04/10/2006	631.58	7.15	624.43	-	-	624.43
	05/11/2006	631.58	7.41	624.17	-	-	624.17
	07/01/2008	631.58	7.90	623.68	-	-	623.68
	09/18/2008	631.58	7.52	624.06	-	-	624.06
	10/23/2008	631.58	8.20	623.38	8.03	0.17	623.51
	12/30/2008	631.58	4.93	626.65	-	-	626.65
	01/29/2009	631.58	5.45	626.13	-	-	626.13
	02/24/2009	631.58	6.25	625.33	-	-	625.33
	03/27/2009	631.58	5.68	625.90	-	-	625.90
	04/28/2009	631.58	6.81	624.77	-	-	624.77
	05/20/2009	631.58	6.32	625.26	-	-	625.26
	06/25/2009	631.58	6.39	625.19	-	-	625.19
	07/21/2009	631.58	6.99	624.59	-	-	624.59
	08/25/2009	631.58	7.68	623.90	-	-	623.90
	09/15/2009	631.58	8.40	623.18	8.27	0.13	623.28
	10/14/2009	631.58	9.01	622.57	8.98	0.03	622.59
	11/10/2009	631.58	8.86	622.72	-	-	622.72
	12/14/2009	631.58	8.84	622.74	-	-	622.74
	01/11/2010	631.58	9.21	622.37	-	-	622.37
	02/10/2010	631.58	8.76	622.82	-	-	622.82
	03/10/2010	631.58	8.21	623.37	-	-	623.37
	04/14/2010	631.58	8.76	622.82	-	-	622.82
	05/12/2010	631.58	9.10	622.48	-	-	622.48
	06/17/2010	631.58	9.44	622.14	-	-	622.14
	07/14/2010	631.58	9.31	622.27	-	-	622.27
	08/09/2010	631.58	9.12	622.46	-	-	622.46
	09/16/2010	631.58	9.53	622.05	-	-	622.05
	10/13/2010	631.58	7.58	624.00	-	-	624.00
	11/16/2010	631.58	8.43	623.15	-	-	623.15
	12/16/2010	631.58	NR	-	NR	-	-
	01/13/2011	631.58	NR	-	NR	-	-
	03/14/2011	631.58	NR	-	NR	-	-
	04/12/2011	631.58	NR	-	NR	-	-
	05/19/2011	631.58	NR	-	NR	-	-
	06/20/2011	631.58	NR	-	NR	-	-
	07/13/2011	631.58	NR	-	NR	-	-
	08/11/2011	631.58	NR	-	NR	-	-
	09/30/2011	631.58	7.04	624.54	-	-	624.54
	10/19/2011	631.58	7.13	624.45	-	-	624.45
	11/17/2011	631.58	7.72	623.86	-	-	623.86

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/07/2011	631.58	7.29	624.29	-	-	624.29
	01/09/2012	631.58	NR	-	NR	-	-
1595-2-4S	11/30/2005	630.37	6.74	623.63	-	-	623.63
	01/26/2006	630.37	6.37	624.00	-	-	624.00
	03/29/2006	630.37	NR	-	NR	-	-
	03/30/2006	630.37	NR	-	NR	-	-
	04/10/2006	630.37	6.64	623.73	-	-	623.73
	05/11/2006	630.37	6.89	623.48	-	-	623.48
	07/01/2008	630.37	7.30	623.07	-	-	623.07
1595-2-5S	11/30/2005	633.12	7.89	625.23	-	-	625.23
	01/26/2006	633.12	7.26	625.86	-	-	625.86
	03/29/2006	633.12	NR	-	NR	-	-
	03/30/2006	633.12	NR	-	NR	-	-
	04/10/2006	633.12	7.77	625.35	7.61	0.16	625.47
	05/11/2006	633.12	8.00	625.12	7.90	0.10	625.20
	07/01/2008	633.12	8.45	624.67	-	-	624.67
1595-2-6S	11/30/2005	631.15	7.08	624.07	-	-	624.07
	01/26/2006	631.15	6.52	624.63	-	-	624.63
	03/29/2006	631.15	NR	-	NR	-	-
	03/30/2006	631.15	NR	-	NR	-	-
	04/10/2006	631.15	6.83	624.32	-	-	624.32
	05/11/2006	631.15	7.08	624.07	-	-	624.07
	07/01/2008	631.15	7.50	623.65	-	-	623.65
1595-3-1S	11/30/2005	632.99	7.65	625.34	-	-	625.34
	01/26/2006	632.99	7.10	625.89	-	-	625.89
	03/29/2006	632.99	NR	-	NR	-	-
	03/30/2006	632.99	NR	-	NR	-	-
	04/10/2006	632.99	7.49	625.50	-	-	625.50
	05/11/2006	632.99	7.76	625.23	-	-	625.23
	07/01/2008	632.99	8.25	624.74	-	-	624.74
	09/18/2008	632.99	6.55	626.44	-	-	626.44
	10/23/2008	632.99	7.10	625.89	-	-	625.89
	12/30/2008	632.99	3.72	629.27	-	-	629.27
	01/29/2009	632.99	6.89	626.10	-	-	626.10
	02/24/2009	632.99	5.90	627.09	-	-	627.09
	03/27/2009	632.99	4.80	628.19	-	-	628.19
	04/28/2009	632.99	7.03	625.96	-	-	625.96
	05/20/2009	632.99	6.79	626.20	-	-	626.20
	06/25/2009	632.99	2.39	630.60	-	-	630.60
	07/21/2009	632.99	7.96	625.03	-	-	625.03
	08/25/2009	632.99	8.62	624.37	-	-	624.37
	09/15/2009	632.99	9.11	623.88	-	-	623.88
	10/14/2009	632.99	9.43	623.56	-	-	623.56
	11/10/2009	632.99	9.24	623.75	-	-	623.75
	12/14/2009	632.99	9.31	623.68	-	-	623.68
	01/11/2010	632.99	9.59	623.40	-	-	623.40
	02/10/2010	632.99	9.18	623.81	-	-	623.81
	03/10/2010	632.99	9.68	623.31	-	-	623.31
	04/14/2010	632.99	9.12	623.87	-	-	623.87
	05/12/2010	632.99	9.51	623.48	-	-	623.48
06/17/2010	632.99	9.84	623.15	-	-	623.15	
07/14/2010	632.99	9.74	623.25	-	-	623.25	
08/09/2010	632.99	9.47	623.52	-	-	623.52	
09/16/2010	632.99	10.03	622.96	-	-	622.96	
10/13/2010	632.99	8.10	624.89	-	-	624.89	
11/16/2010	632.99	8.66	624.33	-	-	624.33	
12/16/2010	632.99	NR	-	-	NR	-	
01/13/2011	632.99	NR	NR	-	NR	-	

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	632.99	NR	-	NR	-	-
	04/12/2011	632.99	NR	-	NR	-	-
	05/19/2011	632.99	NR	-	NR	-	-
	06/20/2011	632.99	NR	-	NR	-	-
	07/13/2011	632.99	NR	-	NR	-	-
	08/11/2011	632.99	NR	-	NR	-	-
	09/30/2011	632.99	7.31	625.68	-	-	625.68
	10/19/2011	632.99	7.99	625.00	-	-	625.00
	11/17/2011	632.99	7.33	625.66	-	-	625.66
	12/07/2011	632.99	7.22	625.77	-	-	625.77
	01/09/2012	632.99	NR	-	NR	-	-
1595-3-2S	11/30/2005	633.68	7.53	626.15	-	-	626.15
	01/26/2006	633.68	6.81	626.87	-	-	626.87
	03/29/2006	633.68	NR	-	NR	-	-
	03/30/2006	633.68	NR	-	NR	-	-
	04/10/2006	633.68	7.22	626.46	-	-	626.46
	05/11/2006	633.68	7.52	626.16	-	-	626.16
	07/01/2008	633.68	8.00	625.68	-	-	625.68
1595-3-3S	11/30/2005	637.45	11.43	626.02	-	-	626.02
	01/26/2006	637.45	10.64	626.81	-	-	626.81
	03/29/2006	637.45	NR	-	NR	-	-
	03/30/2006	637.45	NR	-	NR	-	-
	04/10/2006	637.45	11.21	626.24	11.01	0.20	626.39
	05/11/2006	637.45	11.38	626.07	11.32	0.06	626.12
	07/01/2008	637.45	10.95	626.50	-	-	626.50
1595-4-1S	11/30/2005	634.24	6.94	627.30	6.62	0.32	627.54
	01/26/2006	634.24	5.11	629.13	5.03	0.08	629.19
	03/29/2006	634.24	5.01	629.23	-	-	629.23
	03/30/2006	634.24	NR	-	NR	-	-
	04/10/2006	634.24	5.44	628.80	-	-	628.80
	05/11/2006	634.24	5.78	628.46	-	-	628.46
	07/01/2008	634.24	6.30	627.94	-	-	627.94
	09/18/2008	634.24	6.89	627.35	-	-	627.35
	10/23/2008	634.24	7.22	627.02	-	-	627.02
	12/30/2008	634.24	5.11	629.13	-	-	629.13
	01/29/2009	634.24	5.18	629.06	-	-	629.06
	02/24/2009	634.24	5.25	628.99	-	-	628.99
	03/27/2009	634.24	4.82	629.42	-	-	629.42
	04/28/2009	634.24	5.88	628.36	-	-	628.36
	05/20/2009	634.24	4.68	629.56	-	-	629.56
	06/25/2009	634.24	5.23	629.01	-	-	629.01
	07/21/2009	634.24	6.55	627.69	-	-	627.69
	08/25/2009	634.24	6.82	627.42	-	-	627.42
	09/15/2009	634.24	7.27	626.97	-	-	626.97
	10/14/2009	634.24	8.56	625.68	-	-	625.68
	11/10/2009	634.24	7.35	626.89	-	-	626.89
	12/14/2009	634.24	8.51	625.73	-	-	625.73
	01/11/2010	634.24	8.82	625.42	-	-	625.42
	02/10/2010	634.24	8.39	625.85	-	-	625.85
	03/10/2010	634.24	7.39	626.85	-	-	626.85
	04/14/2010	634.24	8.35	625.89	-	-	625.89
	05/12/2010	634.24	8.79	625.45	-	-	625.45
	06/17/2010	634.24	9.11	625.13	-	-	625.13
	07/14/2010	634.24	8.89	625.35	-	-	625.35
	08/09/2010	634.24	8.61	625.63	-	-	625.63
	09/16/2010	634.24	9.08	625.16	-	-	625.16
	10/13/2010	634.24	6.59	627.65	-	-	627.65
	11/16/2010	634.24	7.83	626.41	-	-	626.41
	12/16/2010	634.24	NR	-	NR	-	-

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/13/2011	634.24	NR	-	NR	-	-
	03/14/2011	634.24	NR	-	NR	-	-
	04/12/2011	634.24	NR	-	NR	-	-
	05/19/2011	634.24	NR	-	NR	-	-
	06/20/2011	634.24	NR	-	NR	-	-
	07/13/2011	634.24	NR	-	NR	-	-
	08/11/2011	634.24	NR	-	NR	-	-
	09/30/2011	634.24	6.23	628.01	-	-	628.01
	10/19/2011	634.24	6.04	628.20	-	-	628.20
	11/17/2011	634.24	6.36	627.88	-	-	627.88
	12/07/2011	634.24	6.24	628.00	-	-	628.00
	01/09/2012	634.24	NR	-	NR	-	-
1595-4-2S	11/30/2005	635.37	7.87	627.50	7.74	0.13	627.60
	01/26/2006	635.37	6.18	629.19	6.12	0.06	629.24
	03/29/2006	635.37	5.99	629.38	-	-	629.38
	03/30/2006	635.37	NR	-	NR	-	-
	04/10/2006	635.37	6.56	628.81	-	-	628.81
	05/11/2006	635.37	6.87	628.50	-	-	628.50
	07/01/2008	635.37	7.45	627.92	-	-	627.92
1595-4-3S	11/30/2005	634.73	8.91	625.82	7.66	1.25	626.77
	01/26/2006	634.73	6.93	627.80	5.99	0.94	628.51
	03/29/2006	634.73	6.76	627.97	-	-	627.97
	03/30/2006	634.73	6.52	628.21	6.27	0.25	628.40
	04/10/2006	634.73	6.91	627.82	6.46	0.45	628.16
	05/11/2006	634.73	7.24	627.49	6.77	0.47	627.85
	07/01/2008	634.73	7.43	627.30	7.35	0.08	627.36
	09/18/2008	634.73	8.73	626.00	-	-	626.00
	10/23/2008	634.73	8.71	626.02	SHEEN	-	626.02
	12/30/2008	634.73	4.92	629.81	-	-	629.81
	01/29/2009	634.73	6.13	628.60	-	-	628.60
	02/24/2009	634.73	5.91	628.82	-	-	628.82
	03/27/2009	634.73	5.77	628.96	-	-	628.96
	04/28/2009	634.73	6.94	627.79	-	-	627.79
	05/20/2009	634.73	6.81	627.92	-	-	627.92
	06/25/2009	634.73	5.54	629.19	-	-	629.19
	07/21/2009	634.73	6.86	627.87	-	-	627.87
	08/25/2009	634.73	7.78	626.95	-	-	626.95
	09/15/2009	634.73	8.35	626.38	8.26	0.09	626.45
	10/14/2009	634.73	9.73	625.00	9.62	0.11	625.08
	11/10/2009	634.73	8.72	626.01	-	-	626.01
	12/14/2009	634.73	7.84	626.89	7.53	0.31	627.13
	01/11/2010	634.73	9.51	625.22	-	-	625.22
	02/10/2010	634.73	8.57	626.16	-	-	626.16
	03/10/2010	634.73	9.56	625.17	-	-	625.17
	04/14/2010	634.73	9.03	625.70	-	-	625.70
	05/12/2010	634.73	9.49	625.24	-	-	625.24
	06/17/2010	634.73	9.82	624.91	-	-	624.91
	07/14/2010	634.73	9.68	625.05	-	-	625.05
	08/09/2010	634.73	9.33	625.40	-	-	625.40
	09/16/2010	634.73	9.21	625.52	-	-	625.52
	10/13/2010	634.73	7.80	626.93	-	-	626.93
	11/16/2010	634.73	8.55	626.18	-	-	626.18
	12/16/2010	634.73	NR	-	NR	-	-
	01/13/2011	634.73	NR	-	NR	-	-
	03/14/2011	634.73	NR	-	NR	-	-
	04/12/2011	634.73	NR	-	NR	-	-
	05/19/2011	634.73	NR	-	NR	-	-
	06/20/2011	634.73	NR	-	NR	-	-
	07/13/2011	634.73	NR	-	NR	-	-
	08/11/2011	634.73	NR	-	NR	-	-

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/30/2011	634.73	6.96	627.77	-	-	627.77
	10/19/2011	634.73	7.69	627.04	-	-	627.04
	11/17/2011	634.73	8.16	626.57	-	-	626.57
	12/07/2011	634.73	8.05	626.68	-	-	626.68
	01/09/2012	634.73	NR	-	NR	-	-
1595-4-4S	11/30/2005	637.64	10.70	626.94	10.03	0.67	627.45
	01/26/2006	637.64	9.86	627.78	8.20	1.66	629.04
	03/29/2006	637.64	10.14	627.50	-	-	627.50
	03/30/2006	637.64	8.86	628.78	8.51	0.35	629.05
	04/10/2006	637.64	9.58	628.06	8.67	0.91	628.75
	05/11/2006	637.64	9.89	627.75	9.00	0.89	628.43
	07/01/2008	637.64	9.75	627.89	9.65	0.10	627.97
	09/18/2008	637.64	10.30	627.34	-	-	627.34
	10/23/2008	637.64	10.43	627.21	-	-	627.21
	12/30/2008	637.64	8.33	629.31	-	-	629.31
	01/29/2009	637.64	7.91	629.73	-	-	629.73
	02/24/2009	637.64	7.91	629.73	-	-	629.73
	03/27/2009	637.64	7.52	630.12	-	-	630.12
	04/28/2009	637.64	9.08	628.56	9.02	0.06	628.61
	05/20/2009	637.64	7.28	630.36	-	-	630.36
	06/25/2009	637.64	7.80	629.84	7.30	0.50	630.22
	07/21/2009	637.64	9.17	628.47	-	-	628.47
	08/25/2009	637.64	10.10	627.54	-	-	627.54
	09/15/2009	637.64	10.67	626.97	10.65	0.02	626.99
	10/14/2009	637.64	11.99	625.65	11.86	0.13	625.75
	11/10/2009	637.64	11.09	626.55	10.61	0.48	626.91
	12/14/2009	637.64	11.21	626.43	-	-	626.43
	01/11/2010	637.64	11.63	626.01	11.61	0.02	626.03
	02/10/2010	637.64	11.16	626.48	-	-	626.48
	03/10/2010	637.64	12.03	625.61	-	-	625.61
	04/14/2010	637.64	11.39	626.25	-	-	626.25
	05/12/2010	637.64	11.90	625.74	-	-	625.74
	06/17/2010	637.64	12.23	625.41	-	-	625.41
	07/14/2010	637.64	12.11	625.53	-	-	625.53
	08/09/2010	637.64	11.74	625.90	-	-	625.90
	09/16/2010	637.64	12.24	625.40	-	-	625.40
	10/13/2010	637.64	10.14	627.50	-	-	627.50
	11/16/2010	637.64	10.87	626.77	-	-	626.77
	12/16/2010	637.64	NR	-	NR	-	-
	01/13/2011	637.64	NR	-	NR	-	-
	03/14/2011	637.64	NR	-	NR	-	-
	04/12/2011	637.64	NR	-	NR	-	-
	05/19/2011	637.64	NR	-	NR	-	-
	06/20/2011	637.64	NR	-	NR	-	-
	07/13/2011	637.64	NR	-	NR	-	-
	08/11/2011	637.64	NR	-	NR	-	-
	09/30/2011	637.64	9.26	628.38	-	-	628.38
	10/19/2011	637.64	10.04	627.60	-	-	627.60
	11/17/2011	637.64	10.51	627.13	-	-	627.13
	12/07/2011	637.64	10.46	627.18	-	-	627.18
	01/09/2012	637.64	NR	-	NR	-	-
1595-4-5S	11/30/2005	636.66	10.00	626.66	-	-	626.66
	01/26/2006	636.66	9.08	627.58	-	-	627.58
	03/29/2006	636.66	NR	-	NR	-	-
	03/30/2006	636.66	NR	-	NR	-	-
	04/10/2006	636.66	9.45	627.21	-	-	627.21
	05/11/2006	636.66	9.99	626.67	9.78	0.21	626.83
	07/01/2008	636.66	9.50	627.16	-	-	627.16
	09/18/2008	636.66	10.05	626.61	-	-	626.61
	10/23/2008	636.66	10.28	626.38	-	-	626.38

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/30/2008	636.66	7.38	629.28	-	-	629.28
	01/29/2009	636.66	7.84	628.82	-	-	628.82
	02/24/2009	636.66	8.61	628.05	-	-	628.05
	03/27/2009	636.66	7.92	628.74	7.52	0.40	629.04
	04/28/2009	636.66	8.99	627.67	-	-	627.67
	05/20/2009	636.66	8.82	627.84	-	-	627.84
	06/25/2009	636.66	8.32	628.34	-	-	628.34
	07/21/2009	636.66	9.26	627.40	-	-	627.40
	08/25/2009	636.66	10.05	626.61	-	-	626.61
	09/15/2009	636.66	10.66	626.00	10.65	0.01	626.01
	10/14/2009	636.66	11.69	624.97	11.61	0.08	625.03
	11/10/2009	636.66	10.82	625.84	-	-	625.84
	12/14/2009	636.66	10.96	625.70	-	-	625.70
	01/11/2010	636.66	11.13	625.53	11.10	0.03	625.55
	02/10/2010	636.66	10.68	625.98	-	-	625.98
	03/10/2010	636.66	11.02	625.64	-	-	625.64
	04/14/2010	636.66	10.61	626.05	-	-	626.05
	05/12/2010	636.66	11.05	625.61	-	-	625.61
	06/17/2010	636.66	11.39	625.27	-	-	625.27
	07/14/2010	636.66	11.29	625.37	-	-	625.37
	08/09/2010	636.66	10.97	625.69	-	-	625.69
	09/16/2010	636.66	11.42	625.24	-	-	625.24
	10/13/2010	636.66	9.63	627.03	-	-	627.03
	11/16/2010	636.66	10.15	626.51	-	-	626.51
	12/16/2010	636.66	NR	-	NR	-	-
	01/13/2011	636.66	NR	-	NR	-	-
	03/14/2011	636.66	NR	-	NR	-	-
	04/12/2011	636.66	NR	-	NR	-	-
	05/19/2011	636.66	NR	-	NR	-	-
	06/20/2011	636.66	NR	-	NR	-	-
	07/13/2011	636.66	NR	-	NR	-	-
	08/11/2011	636.66	NR	-	NR	-	-
	09/30/2011	636.66	8.62	628.04	-	-	628.04
	10/19/2011	636.66	9.64	627.02	-	-	627.02
	11/17/2011	636.66	9.79	626.87	-	-	626.87
	12/07/2011	636.66	9.91	626.75	-	-	626.75
	01/09/2012	636.66	NR	-	NR	-	-
1595-4-6S	11/30/2005	637.66	10.09	627.57	-	-	627.57
	01/26/2006	637.66	9.02	628.64	-	-	628.64
	03/29/2006	637.66	NR	-	NR	-	-
	03/30/2006	637.66	NR	-	NR	-	-
	04/10/2006	637.66	9.44	628.22	-	-	628.22
	05/11/2006	637.66	9.76	627.90	-	-	627.90
	07/01/2008	637.66	10.25	627.41	-	-	627.41
	09/18/2008	637.66	9.89	627.77	-	-	627.77
	10/23/2008	637.66	10.40	627.26	-	-	627.26
	12/30/2008	637.66	6.72	630.94	-	-	630.94
	01/29/2009	637.66	8.60	629.06	-	-	629.06
	02/24/2009	637.66	8.76	628.90	-	-	628.90
	03/27/2009	637.66	7.82	629.84	-	-	629.84
	04/28/2009	637.66	8.79	628.87	-	-	628.87
	05/20/2009	637.66	8.19	629.47	-	-	629.47
	06/25/2009	637.66	8.91	628.75	-	-	628.75
	07/21/2009	637.66	9.41	628.25	-	-	628.25
	08/25/2009	637.66	10.30	627.36	-	-	627.36
	09/15/2009	637.66	10.68	626.98	-	-	626.98
	10/14/2009	637.66	11.65	626.01	-	-	626.01
	11/10/2009	637.66	11.16	626.50	-	-	626.50
	12/14/2009	637.66	10.87	626.79	-	-	626.79
	01/11/2010	637.66	12.06	625.60	-	-	625.60
	02/10/2010	637.66	11.66	626.00	-	-	626.00

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/10/2010	637.66	11.69	625.97	-	-	625.97
	04/14/2010	637.66	11.48	626.18	-	-	626.18
	05/12/2010	637.66	11.97	625.69	-	-	625.69
	06/17/2010	637.66	12.31	625.35	-	-	625.35
	07/14/2010	637.66	12.18	625.48	-	-	625.48
	08/09/2010	637.66	11.81	625.85	-	-	625.85
	09/16/2010	637.66	12.32	625.34	-	-	625.34
	10/13/2010	637.66	10.58	627.08	-	-	627.08
	11/16/2010	637.66	10.98	626.68	-	-	626.68
	12/16/2010	637.66	NR	-	NR	-	-
	01/13/2011	637.66	NR	-	NR	-	-
	03/14/2011	637.66	NR	-	NR	-	-
	04/12/2011	637.66	NR	-	NR	-	-
	05/19/2011	637.66	NR	-	NR	-	-
	06/20/2011	637.66	NR	-	NR	-	-
	07/13/2011	637.66	NR	-	NR	-	-
	08/11/2011	637.66	NR	-	NR	-	-
	09/30/2011	637.66	9.29	628.37	-	-	628.37
	10/19/2011	637.66	9.72	627.94	-	-	627.94
	11/17/2011	637.66	9.91	627.75	-	-	627.75
	12/07/2011	637.66	9.97	627.69	-	-	627.69
	01/09/2012	637.66	NR	-	NR	-	-
1595-5-1S	11/30/2005	638.53	9.72	628.81	-	-	628.81
	01/26/2006	638.53	8.89	629.64	-	-	629.64
	03/29/2006	638.53	NR	-	NR	-	-
	03/30/2006	638.53	NR	-	NR	-	-
	04/10/2006	638.53	9.32	629.21	-	-	629.21
	05/11/2006	638.53	9.69	628.84	-	-	628.84
	07/01/2008	638.53	10.15	628.38	-	-	628.38
1595-5-2S	11/30/2005	639.28	10.62	628.66	-	-	628.66
	01/26/2006	639.28	9.66	629.62	-	-	629.62
	03/29/2006	639.28	NR	-	NR	-	-
	03/30/2006	639.28	NR	-	NR	-	-
	04/10/2006	639.28	10.05	629.23	-	-	629.23
	05/11/2006	639.28	10.39	628.89	-	-	628.89
	07/01/2008	639.28	10.90	628.38	-	-	628.38
1595-5-3S	11/30/2005	639.57	11.04	628.53	-	-	628.53
	01/26/2006	639.57	10.09	629.48	-	-	629.48
	03/29/2006	639.57	NR	-	NR	-	-
	03/30/2006	639.57	NR	-	NR	-	-
	04/10/2006	639.57	10.46	629.11	-	-	629.11
	05/11/2006	639.57	10.81	628.76	-	-	628.76
	07/01/2008	639.57	11.25	628.32	-	-	628.32
1595-5-4S	11/30/2005	639.73	11.09	628.64	-	-	628.64
	01/26/2006	639.73	10.05	629.68	-	-	629.68
	03/29/2006	639.73	NR	-	NR	-	-
	03/30/2006	639.73	NR	-	NR	-	-
	04/10/2006	639.73	10.45	629.28	-	-	629.28
	05/11/2006	639.73	10.78	628.95	-	-	628.95
	07/01/2008	639.73	11.20	628.53	-	-	628.53
1595-5-5S	11/30/2005	639.84	11.27	628.57	-	-	628.57
	01/26/2006	639.84	10.10	629.74	-	-	629.74
	03/29/2006	639.84	NR	-	NR	-	-
	03/30/2006	639.84	NR	-	NR	-	-
	04/10/2006	639.84	10.50	629.34	-	-	629.34
	05/11/2006	639.84	10.83	629.01	-	-	629.01
	07/01/2008	639.84	11.20	628.64	-	-	628.64

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1595-6-1S	11/30/2005	639.23	9.63	629.60	-	-	629.60
	01/26/2006	639.23	8.89	630.34	-	-	630.34
	03/29/2006	639.23	NR	-	NR	-	-
	03/30/2006	639.23	NR	-	NR	-	-
	04/10/2006	639.23	9.28	629.95	-	-	629.95
	05/11/2006	639.23	9.90	629.33	9.62	0.28	629.54
	07/01/2008	639.23	9.05	630.18	-	-	630.18
1595-6-2S	11/30/2005	639.51	9.90	629.61	-	-	629.61
	01/26/2006	639.51	9.06	630.45	-	-	630.45
	03/29/2006	639.51	NR	-	NR	-	-
	03/30/2006	639.51	NR	-	NR	-	-
	04/10/2006	639.51	9.40	630.11	-	-	630.11
	05/11/2006	639.51	9.75	629.76	-	-	629.76
	07/01/2008	639.51	10.10	629.41	-	-	629.41
1595-6-3S	11/30/2005	640.36	10.30	630.06	-	-	630.06
	01/26/2006	640.36	9.35	631.01	-	-	631.01
	03/29/2006	640.36	NR	-	NR	-	-
	03/30/2006	640.36	NR	-	NR	-	-
	04/10/2006	640.36	9.61	630.75	-	-	630.75
	05/11/2006	640.36	9.97	630.39	-	-	630.39
	07/01/2008	640.36	10.35	630.01	-	-	630.01
1595-6-4S	11/30/2005	639.74	9.94	629.80	-	-	629.80
	01/26/2006	639.74	9.12	630.62	-	-	630.62
	03/29/2006	639.74	NR	-	NR	-	-
	03/30/2006	639.74	NR	-	NR	-	-
	04/10/2006	639.74	9.44	630.30	-	-	630.30
	05/11/2006	639.74	9.79	629.95	-	-	629.95
	07/01/2008	639.74	10.05	629.69	-	-	629.69
1595-6-5S	11/30/2005	640.45	10.19	630.26	-	-	630.26
	01/26/2006	640.45	9.72	630.73	-	-	630.73
	03/29/2006	640.45	NR	-	NR	-	-
	03/30/2006	640.45	NR	-	NR	-	-
	04/10/2006	640.45	9.43	631.02	-	-	631.02
	05/11/2006	640.45	9.80	630.65	-	-	630.65
	07/01/2008	640.45	10.05	630.40	-	-	630.40
1595-6-6S	11/30/2005	640.02	10.38	629.64	-	-	629.64
	01/26/2006	640.02	9.34	630.68	-	-	630.68
	03/29/2006	640.02	NR	-	NR	-	-
	03/30/2006	640.02	NR	-	NR	-	-
	04/10/2006	640.02	9.66	630.36	-	-	630.36
	05/11/2006	640.02	10.03	629.99	-	-	629.99
	07/01/2008	640.02	10.30	629.72	-	-	629.72
1595-MW1A	09/15/2004	NR	13.21	-	-	-	-
	04/19/2005	NR	11.93	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-MW3	09/07/2004	638.41	15.42	622.99	-	-	622.99
	09/15/2004	638.41	14.93	623.48	-	-	623.48
	10/04/2004	638.41	15.37	623.04	-	-	623.04
	11/08/2004	638.41	15.84	622.57	-	-	622.57
	12/01/2004	638.41	16.03	622.38	-	-	622.38
	01/04/2005	638.41	14.27	624.14	-	-	624.14
	02/01/2005	638.41	14.30	624.11	-	-	624.11
	03/03/2005	638.41	14.84	623.57	-	-	623.57
	04/08/2005	638.41	13.37	625.04	13.29	0.08	625.10
	04/19/2005	638.41	13.39	625.02	-	-	625.02
05/02/2005	638.41	13.35	625.06	-	-	625.06	

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/08/2005	638.41	9.04	629.37	-	-	629.37
	04/24/2006	638.41	11.95	626.46	-	-	626.46
	10/03/2006	638.41	13.39	625.02	-	-	625.02
	05/22/2007	638.41	11.79	626.62	-	-	626.62
1595-MW3A	09/15/2004	NR	15.71	-	-	-	-
	04/19/2005	NR	14.63	-	-	-	-
	04/24/2006	NR	13.15	-	-	-	-
	10/03/2006	NR	15.84	-	-	-	-
	05/22/2007	NR	12.95	-	-	-	-
1595-MW5	09/15/2004	NR	17.44	-	-	-	-
	04/19/2005	NR	16.27	-	-	-	-
	04/24/2006	NR	14.55	-	-	-	-
	10/03/2006	NR	16.42	-	-	-	-
	05/22/2007	NR	14.29	-	-	-	-
1595-MWD4	09/15/2004	NR	14.63	-	-	-	-
	04/19/2005	NR	13.15	-	-	-	-
	04/24/2006	NR	11.58	-	-	-	-
	10/03/2006	NR	13.80	-	-	-	-
	05/22/2007	NR	12.08	-	-	-	-
1595-MWD5	09/15/2004	NR	10.14	-	-	-	-
	04/19/2005	NR	9.16	-	-	-	-
	04/24/2006	NR	7.29	-	-	-	-
	10/03/2006	NR	8.67	-	-	-	-
	5/18/22/2007	NR	7.37	-	-	-	-
1595-MWD6	09/15/2004	NR	20.35	-	-	-	-
	04/19/2005	NR	19.31	-	-	-	-
	04/24/2006	NR	14.49	-	-	-	-
	10/06/2006	NR	19.20	-	-	-	-
	05/22/2007	NR	17.23	-	-	-	-
1595-MWI3	09/15/2004	NR	15.28	-	-	-	-
	04/19/2005	NR	13.87	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-MWS1	09/15/2004	NR	10.09	-	-	-	-
	04/19/2005	NR	9.21	-	-	-	-
	04/24/2006	NR	8.67	-	-	-	-
	10/03/2006	NR	9.96	-	-	-	-
	05/22/2007	NR	8.58	-	-	-	-
1595-MWS2	09/07/2004	642.18	16.18	626.00	-	-	626.00
	09/15/2004	642.18	15.66	626.52	-	-	626.52
	10/04/2004	642.18	16.19	625.99	-	-	625.99
	11/08/2004	642.18	16.63	625.55	-	-	625.55
	12/01/2004	642.18	16.89	625.29	-	-	625.29
	01/04/2005	642.18	15.36	626.82	-	-	626.82
	02/01/2005	642.18	15.30	626.88	-	-	626.88
	03/03/2005	642.18	15.78	626.40	-	-	626.40
	04/08/2005	642.18	14.85	627.33	-	-	627.33
	04/19/2005	642.18	14.53	627.65	-	-	627.65
	05/02/2005	642.18	14.64	627.54	-	-	627.54
	06/08/2005	642.18	15.19	626.99	-	-	626.99
	04/24/2006	642.18	13.26	628.92	-	-	628.92
	10/03/2006	642.18	15.97	626.21	-	-	626.21
	05/22/2007	642.18	12.99	629.19	-	-	629.19
1595-MWS7	12/05/2002	629.00	10.83	618.17	-	-	618.17
	12/13/2002	629.00	10.56	618.44	-	-	618.44

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/17/2002	629.00	9.94	619.06	-	-	619.06
	12/23/2002	629.00	10.87	618.13	-	-	618.13
	12/27/2002	629.00	10.81	618.19	-	-	618.19
	01/09/2003	629.00	10.33	618.67	-	-	618.67
	01/22/2003	629.00	11.43	617.57	-	-	617.57
	01/28/2003	629.00	11.47	617.53	-	-	617.53
	02/07/2003	629.00	11.26	617.74	-	-	617.74
	02/12/2003	629.00	11.19	617.81	-	-	617.81
	02/18/2003	629.00	11.17	617.83	-	-	617.83
	09/07/2004	629.00	10.95	618.05	-	-	618.05
	09/15/2004	629.00	10.42	618.58	-	-	618.58
	09/21/2004	629.00	10.78	618.22	-	-	618.22
	10/04/2004	629.00	11.07	617.93	-	-	617.93
	10/19/2004	629.00	9.63	619.37	-	-	619.37
	10/29/2004	629.00	10.34	618.66	-	-	618.66
	11/08/2004	629.00	11.22	617.78	-	-	617.78
	12/01/2004	629.00	11.09	617.91	-	-	617.91
	12/16/2004	629.00	10.43	618.57	-	-	618.57
	12/23/2004	629.00	9.63	619.37	-	-	619.37
	01/04/2005	629.00	9.66	619.34	-	-	619.34
	01/13/2005	629.00	9.91	619.09	-	-	619.09
	02/01/2005	629.00	10.42	618.58	-	-	618.58
	02/23/2005	629.00	10.08	618.92	-	-	618.92
	03/03/2005	629.00	10.21	618.79	-	-	618.79
	03/15/2005	629.00	10.07	618.93	-	-	618.93
	04/08/2005	629.00	9.13	619.87	-	-	619.87
	04/19/2005	629.00	9.40	619.60	-	-	619.60
	04/21/2005	629.00	9.50	619.50	-	-	619.50
	05/02/2005	629.00	8.36	620.64	-	-	620.64
	05/19/2005	629.00	9.54	619.46	-	-	619.46
	06/08/2005	629.00	9.63	619.37	-	-	619.37
	06/17/2005	629.00	9.66	619.34	-	-	619.34
	04/24/2006	629.00	7.39	621.61	-	-	621.61
	10/03/2006	629.00	8.80	620.20	-	-	620.20
	05/22/2007	629.00	7.49	621.51	-	-	621.51
1595-MWS8	12/05/2002	630.80	11.42	619.38	-	-	619.38
	12/13/2002	630.80	11.22	619.58	-	-	619.58
	12/17/2002	630.80	10.67	620.13	-	-	620.13
	12/23/2002	630.80	11.38	619.42	-	-	619.42
	12/27/2002	630.80	NR	-	NR	-	-
	01/09/2003	630.80	10.79	620.01	-	-	620.01
	01/22/2003	630.80	11.76	619.04	-	-	619.04
	01/28/2003	630.80	11.83	618.97	-	-	618.97
	02/07/2003	630.80	11.75	619.05	-	-	619.05
	02/12/2003	630.80	11.73	619.07	-	-	619.07
	02/18/2003	630.80	11.63	619.17	-	-	619.17
	09/07/2004	630.80	11.29	619.51	-	-	619.51
	09/15/2004	630.80	10.61	620.19	-	-	620.19
	09/21/2004	630.80	11.08	619.72	-	-	619.72
	10/04/2004	630.80	11.39	619.41	-	-	619.41
	10/19/2004	630.80	10.32	620.48	-	-	620.48
	10/29/2004	630.80	10.87	619.93	-	-	619.93
	12/01/2004	630.80	11.47	619.33	-	-	619.33
	12/16/2004	630.80	10.71	620.09	-	-	620.09
	12/23/2004	630.80	10.21	620.59	-	-	620.59
	01/04/2005	630.80	10.10	620.70	9.92	0.18	620.84
	01/13/2005	630.80	10.33	620.47	10.22	0.11	620.55
	02/01/2005	630.80	10.55	620.25	10.54	0.01	620.26
	02/23/2005	630.80	10.43	620.37	10.42	0.01	620.38
	03/03/2005	630.80	10.60	620.20	10.58	0.02	620.22
	03/15/2005	630.80	10.47	620.33	-	-	620.33

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/08/2005	630.80	9.36	621.44	9.26	0.10	621.52
	04/19/2005	630.80	9.90	620.90	9.45	0.45	621.24
	04/21/2005	630.80	10.05	620.75	9.57	0.48	621.11
	05/02/2005	630.80	8.88	621.92	8.74	0.14	622.03
	05/19/2005	630.80	9.76	621.04	9.66	0.10	621.12
	06/08/2005	630.80	9.83	620.97	9.81	0.02	620.99
	06/17/2005	630.80	9.98	620.82	-	-	620.82
	04/24/2006	630.80	7.57	623.23	-	-	623.23
	10/03/2006	630.80	9.36	621.44	-	-	621.44
	05/22/2007	630.80	7.53	623.27	-	-	623.27
	09/18/2008	630.80	NR	-	NR	-	-
	10/23/2008	630.80	NR	-	NR	-	-
	12/30/2008	630.80	NR	-	NR	-	-
	01/29/2009	630.80	7.47	623.33	-	-	623.33
1595-MWS9	12/05/2002	623.20	6.10	617.10	-	-	617.10
	12/13/2002	623.20	6.12	617.08	-	-	617.08
	12/17/2002	623.20	5.55	617.65	-	-	617.65
	12/23/2002	623.20	6.00	617.20	-	-	617.20
	12/27/2002	623.20	5.99	617.21	-	-	617.21
	01/09/2003	623.20	5.73	617.47	-	-	617.47
	01/22/2003	623.20	6.42	616.78	-	-	616.78
	01/28/2003	623.20	6.49	616.71	-	-	616.71
	02/07/2003	623.20	6.34	616.86	-	-	616.86
	02/12/2003	623.20	6.29	616.91	-	-	616.91
	02/18/2003	623.20	6.29	616.91	-	-	616.91
	09/07/2004	623.20	6.13	617.07	-	-	617.07
	09/15/2004	623.20	5.69	617.51	-	-	617.51
	09/21/2004	623.20	5.94	617.26	-	-	617.26
	10/04/2004	623.20	6.19	617.01	-	-	617.01
	10/19/2004	623.20	5.32	617.88	-	-	617.88
	10/29/2004	623.20	5.79	617.41	-	-	617.41
	11/08/2004	623.20	6.32	616.88	-	-	616.88
	12/01/2004	623.20	6.06	617.14	-	-	617.14
	12/16/2004	623.20	5.59	617.61	-	-	617.61
	12/23/2004	623.20	5.26	617.94	-	-	617.94
	01/04/2005	623.20	5.09	618.11	-	-	618.11
	01/13/2005	623.20	5.31	617.89	-	-	617.89
	02/01/2005	623.20	5.66	617.54	-	-	617.54
	02/23/2005	623.20	5.47	617.73	-	-	617.73
	03/03/2005	623.20	5.58	617.62	-	-	617.62
	03/15/2005	623.20	5.46	617.74	-	-	617.74
	04/08/2005	623.20	4.75	618.45	-	-	618.45
	04/19/2005	623.20	4.96	618.24	-	-	618.24
	04/21/2005	623.20	5.01	618.19	-	-	618.19
	05/02/2005	623.20	4.45	618.75	-	-	618.75
	05/19/2005	623.20	5.04	618.16	-	-	618.16
	06/08/2005	623.20	5.11	618.09	-	-	618.09
	06/17/2005	623.20	5.13	618.07	-	-	618.07
	04/24/2006	623.20	3.86	619.34	-	-	619.34
	10/03/2006	623.20	4.80	618.40	-	-	618.40
	05/22/2007	623.20	4.02	619.18	-	-	619.18
1595-MW33	09/15/2004	NR	12.45	-	-	-	-
	04/19/2005	NR	11.25	-	-	-	-
	04/24/2006	NR	9.87	-	-	-	-
	10/03/2006	NR	12.56	-	-	-	-
	05/22/2007	NR	9.71	-	-	-	-
1595-MW34	09/15/2004	NR	15.39	-	-	-	-
	04/19/2005	NR	14.20	-	-	-	-
	04/24/2006	NR	12.78	-	-	-	-

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/03/2006	NR	15.50	-	-	-	-
	05/22/2007	NR	12.61	-	-	-	-
1595-MW35	09/15/2004	NR	14.66	-	-	-	-
	04/19/2005	NR	14.79	-	-	-	-
	04/24/2006	NR	12.25	-	-	-	-
	10/03/2006	NR	15.22	-	-	-	-
	05/22/2007	NR	11.92	-	-	-	-
1595-OBG1	09/15/2004	NR	18.91	-	-	-	-
	04/19/2005	NR	17.63	-	-	-	-
	04/24/2006	NR	16.06	-	-	-	-
	10/03/2006	NR	18.13	-	-	-	-
	05/22/2007	NR	15.47	-	-	-	-
1595-OBG2	12/05/2002	637.98	14.70	623.28	-	-	623.28
	12/13/2002	637.98	14.57	623.41	-	-	623.41
	12/17/2002	637.98	14.83	623.15	-	-	623.15
	12/23/2002	637.98	14.30	623.68	-	-	623.68
	12/27/2002	637.98	16.88	621.10	-	-	621.10
	01/09/2003	637.98	14.08	623.90	-	-	623.90
	01/22/2003	637.98	NR	-	NR	-	-
	01/28/2003	637.98	NR	-	NR	-	-
	02/07/2003	637.98	NR	-	NR	-	-
	02/12/2003	637.98	NR	-	NR	-	-
	09/07/2004	637.98	13.82	624.16	-	-	624.16
	09/15/2004	637.98	13.28	624.70	-	-	624.70
	09/21/2004	637.98	13.44	624.54	-	-	624.54
	10/04/2004	637.98	13.79	624.19	-	-	624.19
	10/19/2004	637.98	13.82	624.16	-	-	624.16
	10/29/2004	637.98	14.08	623.90	-	-	623.90
	11/08/2004	637.98	14.40	623.58	-	-	623.58
	12/01/2004	637.98	14.47	623.51	-	-	623.51
	12/16/2004	637.98	13.59	624.39	13.25	0.34	624.65
	12/23/2004	637.98	13.50	624.48	13.06	0.44	624.81
	01/04/2005	637.98	12.80	625.18	12.78	0.02	625.20
	01/13/2005	637.98	12.94	625.04	12.75	0.19	625.18
	02/01/2005	637.98	12.84	625.14	12.70	0.14	625.25
	02/23/2005	637.98	13.05	624.93	-	-	624.93
	03/03/2005	637.98	13.23	624.75	-	-	624.75
	03/15/2005	637.98	13.26	624.72	-	-	624.72
	04/08/2005	637.98	12.06	625.92	11.88	0.18	626.06
	04/19/2005	637.98	12.26	625.72	11.80	0.46	626.07
	04/21/2005	637.98	12.45	625.53	11.90	0.55	625.95
	05/02/2005	637.98	11.98	626.00	11.92	0.06	626.05
	05/19/2005	637.98	12.18	625.80	12.07	0.11	625.88
	06/08/2005	637.98	12.47	625.51	-	-	625.51
	06/17/2005	637.98	12.73	625.25	-	-	625.25
	04/24/2006	637.98	10.86	627.12	10.67	0.19	627.26
	10/03/2006	637.98	12.32	625.66	-	-	625.66
	05/22/2007	637.98	10.63	627.35	10.44	0.19	627.49
	04/28/2009	637.98	10.00	627.98	9.99	0.01	627.99
	05/20/2009	637.98	9.85	628.13	-	-	628.13
	06/25/2009	637.98	10.34	627.64	-	-	627.64
	07/21/2009	637.98	11.23	626.75	11.01	0.22	626.92
	08/25/2009	637.98	11.78	626.20	Sheen	-	626.20
	09/15/2009	637.98	12.34	625.64	-	-	625.64
	10/14/2009	637.98	12.67	625.31	-	-	625.31
	11/10/2009	637.98	12.63	625.35	-	-	625.35
	12/14/2009	637.98	12.77	625.21	-	-	625.21
	01/11/2010	637.98	12.99	624.99	-	-	624.99
	02/10/2010	637.98	12.56	625.42	-	-	625.42

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/10/2010	637.98	13.16	624.82	-	-	624.82
	04/14/2010	637.98	12.51	625.47	-	-	625.47
	05/12/2010	637.98	12.96	625.02	-	-	625.02
	06/17/2010	637.98	13.31	624.67	-	-	624.67
	07/14/2010	637.98	13.19	624.79	-	-	624.79
	08/09/2010	637.98	12.81	625.17	-	-	625.17
	09/16/2010	637.98	13.24	624.74	-	-	624.74
	10/13/2010	637.98	10.84	627.14	-	-	627.14
	11/16/2010	637.98	12.02	625.96	11.98	0.04	626.00
	12/16/2010	637.98	NR	-	NR	-	-
	01/13/2011	637.98	NR	-	NR	-	-
	03/14/2011	637.98	NR	-	NR	-	-
	04/12/2011	637.98	NR	-	NR	-	-
	05/19/2011	637.98	NR	-	NR	-	-
	06/20/2011	637.98	NR	-	NR	-	-
	07/13/2011	637.98	NR	-	NR	-	-
	08/11/2011	637.98	NR	-	NR	-	-
	09/30/2011	637.98	10.54	627.44	10.06	0.48	627.92
	10/19/2011	637.98	11.11	626.87	10.90	0.21	627.08
	11/17/2011	637.98	11.36	626.62	11.31	0.05	626.67
	12/07/2011	637.98	11.23	626.75	NR	-	626.75
	01/09/2012	637.98	NR	-	NR	-	-
1595-OBG3	12/05/2002	636.87	15.92	620.95	-	-	620.95
	12/13/2002	636.87	15.70	621.17	-	-	621.17
	12/17/2002	636.87	15.23	621.64	-	-	621.64
	12/23/2002	636.87	15.48	621.39	-	-	621.39
	12/27/2002	636.87	15.27	621.60	-	-	621.60
	01/09/2003	636.87	14.95	621.92	-	-	621.92
	01/22/2003	636.87	15.66	621.21	-	-	621.21
	01/28/2003	636.87	15.76	621.11	-	-	621.11
	02/07/2003	636.87	15.90	620.97	-	-	620.97
	02/12/2003	636.87	15.83	621.04	-	-	621.04
	02/18/2003	636.87	15.78	621.09	-	-	621.09
	09/07/2004	636.87	15.29	621.58	-	-	621.58
	09/15/2004	636.87	14.68	622.19	-	-	622.19
	09/21/2004	636.87	14.97	621.90	-	-	621.90
	10/04/2004	636.87	15.32	621.55	-	-	621.55
	10/19/2004	636.87	14.85	622.02	-	-	622.02
	10/29/2004	636.87	15.23	621.64	-	-	621.64
	11/08/2004	636.87	15.78	621.09	-	-	621.09
	12/01/2004	636.87	15.75	621.12	-	-	621.12
	12/16/2004	636.87	14.57	622.30	-	-	622.30
	12/23/2004	636.87	14.41	622.46	-	-	622.46
	01/04/2005	636.87	14.00	622.87	-	-	622.87
	01/13/2005	636.87	14.19	622.68	-	-	622.68
	02/01/2005	636.87	14.29	622.58	-	-	622.58
	02/23/2005	636.87	14.46	622.41	-	-	622.41
	03/03/2005	636.87	14.65	622.22	-	-	622.22
	03/15/2005	636.87	14.60	622.27	-	-	622.27
	04/08/2005	636.87	13.11	623.76	-	-	623.76
	04/19/2005	636.87	13.31	623.56	-	-	623.56
	04/21/2005	636.87	13.43	623.44	13.42	0.01	623.45
	05/02/2005	636.87	13.08	623.79	-	-	623.79
	05/19/2005	636.87	14.55	622.32	14.54	0.01	622.33
	06/08/2005	636.87	13.79	623.08	-	-	623.08
	06/17/2005	636.87	14.05	622.82	-	-	622.82
	04/24/2006	636.87	11.74	625.13	-	-	625.13
	10/03/2006	636.87	13.92	622.95	-	-	622.95
	05/22/2007	636.87	11.64	625.23	-	-	625.23
1595-OBG4	09/15/2004	NR	17.16	-	-	-	-

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR	15.91 14.46 17.11 14.03	- - - -	- - - -	- - - -	- - - -
1595-OBG5	09/15/2004 04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR NR	15.53 14.66 13.66 15.22 13.50	- - - - -	- - - - -	- - - - -	- - - - -
1595-OBG6	09/15/2004 04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR NR	9.26 8.35 7.11 8.66 7.18	- - - - -	- - - - -	- - - - -	- - - - -
1595-OBG7	09/15/2004 04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR NR	6.80 6.25 5.91 6.53 5.96	- - - - -	- - - - -	- - - - -	- - - - -
1595-OBG8	09/15/2004 04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR NR	9.29 8.08 6.82 9.44 6.87	- - - - -	- - - - -	- - - - -	- - - - -
1595-OBG9	09/15/2004 04/19/2005 04/24/2006 10/03/2006 05/22/2007	NR NR NR NR NR	10.17 9.04 7.88 10.69 7.81	- - - - -	- - - - -	- - - - -	- - - - -
1595-PZ1	12/05/2002 12/13/2002 12/17/2002 12/23/2002 12/27/2002 01/09/2003 01/22/2003 01/28/2003 02/07/2003 02/12/2003 02/18/2003 09/07/2004 09/15/2004 09/21/2004 10/04/2004 10/19/2004 10/29/2004 11/08/2004 12/01/2004 12/16/2004 12/23/2004 01/04/2005 01/13/2005 02/01/2005 02/23/2005 03/03/2005 03/15/2005	631.53 631.53	13.38 13.11 12.32 13.63 13.54 12.89 14.00 14.10 13.84 13.61 13.74 13.56 13.09 13.47 13.63 12.02 12.66 13.91 13.82 13.15 12.06 12.32 12.60 12.99 12.66 12.74 12.54	618.15 618.42 619.21 617.90 617.99 618.64 617.53 617.43 617.69 617.92 617.79 617.97 618.44 618.06 617.90 619.51 618.87 617.62 617.71 618.38 619.47 619.21 618.93 618.54 618.87 618.79 618.99	- -	- -	618.15 618.42 619.21 617.90 617.99 618.64 617.53 617.43 617.69 617.92 617.79 617.97 618.44 618.06 617.90 619.51 618.87 617.62 617.71 618.38 619.47 619.21 618.93 618.54 618.87 618.79 618.99

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/08/2005	631.53	11.69	619.84	-	-	619.84
	04/19/2005	631.53	11.94	619.59	-	-	619.59
	04/21/2005	631.53	12.05	619.48	-	-	619.48
	05/02/2005	631.53	10.64	620.89	-	-	620.89
	05/19/2005	631.53	12.08	619.45	-	-	619.45
	06/08/2005	631.53	12.13	619.40	-	-	619.40
	06/17/2005	631.53	12.21	619.32	-	-	619.32
	04/24/2006	631.53	9.66	621.87	-	-	621.87
	10/03/2006	631.53	11.15	620.38	-	-	620.38
	05/22/2007	631.53	9.68	621.85	-	-	621.85
1595-PZ2	12/05/2002	630.46	12.58	617.88	-	-	617.88
	12/13/2002	630.46	12.32	618.14	-	-	618.14
	12/17/2002	630.46	11.58	618.88	-	-	618.88
	12/23/2002	630.46	12.79	617.67	-	-	617.67
	12/27/2002	630.46	12.72	617.74	-	-	617.74
	01/09/2003	630.46	12.11	618.35	-	-	618.35
	01/22/2003	630.46	13.22	617.24	-	-	617.24
	01/28/2003	630.46	DRY	-	DRY	-	-
	02/07/2003	630.46	13.03	617.43	-	-	617.43
	02/12/2003	630.46	12.96	617.50	-	-	617.50
	02/18/2003	630.46	12.94	617.52	-	-	617.52
	09/07/2004	630.46	12.79	617.67	-	-	617.67
	09/15/2004	630.46	12.31	618.15	-	-	618.15
	09/21/2004	630.46	12.65	617.81	-	-	617.81
	10/04/2004	630.46	12.84	617.62	-	-	617.62
	10/19/2004	630.46	11.28	619.18	-	-	619.18
	10/29/2004	630.46	11.97	618.49	-	-	618.49
	11/08/2004	630.46	13.07	617.39	-	-	617.39
	12/01/2004	630.46	12.97	617.49	-	-	617.49
	12/16/2004	630.46	12.35	618.11	-	-	618.11
	12/23/2004	630.46	11.34	619.12	-	-	619.12
	01/04/2005	630.46	11.56	618.90	-	-	618.90
	01/13/2005	630.46	11.82	618.64	-	-	618.64
	02/01/2005	630.46	12.25	618.21	-	-	618.21
	02/23/2005	630.46	11.90	618.56	-	-	618.56
	03/03/2005	630.46	11.99	618.47	-	-	618.47
	03/15/2005	630.46	11.81	618.65	-	-	618.65
	04/08/2005	630.46	11.00	619.46	-	-	619.46
	04/19/2005	630.46	11.25	619.21	-	-	619.21
	04/21/2005	630.46	11.33	619.13	-	-	619.13
	05/02/2005	630.46	10.02	620.44	-	-	620.44
	05/19/2005	630.46	11.36	619.10	-	-	619.10
	06/08/2005	630.46	11.40	619.06	-	-	619.06
	06/17/2005	630.46	11.48	618.98	-	-	618.98
Well Decommissioned During Construction of AA/SVE System							
1595-PZ4	09/16/2004	NR	11.51	-	-	-	-
	04/19/2005	NR	10.30	-	-	-	-
	04/24/2006	NR	8.36	-	-	-	-
	10/03/2006	NR	10.12	-	-	-	-
	05/22/2007	NR	8.32	-	-	-	-
1595-PZ6	09/15/2004	NR	5.87	-	-	-	-
	04/19/2005	NR	5.17	-	-	-	-
Well Decommissioned During Construction of AA/SVE System							
1595-PZ7	09/15/2004	NR	19.21	-	-	-	-
	04/19/2005	NR	18.18	-	-	-	-
	04/24/2006	NR	16.29	-	-	-	-
	10/03/2006	NR	18.00	-	-	-	-
	05/22/2007	NR	16.04	-	-	-	-
1595-PZ8	12/05/2002	630.29	13.90	616.39	-	-	616.39

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/13/2002	630.29	13.88	616.41	-	-	616.41
	12/17/2002	630.29	13.03	617.26	-	-	617.26
	12/23/2002	630.29	14.13	616.16	-	-	616.16
	12/27/2002	630.29	14.14	616.15	-	-	616.15
	01/09/2003	630.29	13.92	616.37	-	-	616.37
	01/22/2003	630.29	14.31	615.98	-	-	615.98
	01/28/2003	630.29	14.40	615.89	-	-	615.89
	02/07/2003	630.29	14.35	615.94	-	-	615.94
	02/12/2003	630.29	14.32	615.97	-	-	615.97
	02/18/2003	630.29	14.27	616.02	-	-	616.02
	09/07/2004	630.29	13.90	616.39	-	-	616.39
	09/15/2004	630.29	13.65	616.64	-	-	616.64
	09/21/2004	630.29	13.98	616.31	-	-	616.31
	10/04/2004	630.29	14.01	616.28	-	-	616.28
	10/19/2004	630.29	12.72	617.57	-	-	617.57
	10/29/2004	630.29	13.51	616.78	-	-	616.78
	11/08/2004	630.29	14.50	615.79	-	-	615.79
	12/01/2004	630.29	14.41	615.88	-	-	615.88
	12/16/2004	630.29	14.06	616.23	-	-	616.23
	12/23/2004	630.29	12.86	617.43	-	-	617.43
	01/04/2005	630.29	13.15	617.14	-	-	617.14
	01/13/2005	630.29	13.26	617.03	-	-	617.03
	02/01/2005	630.29	13.52	616.77	-	-	616.77
	02/23/2005	630.29	13.52	616.77	-	-	616.77
	03/03/2005	630.29	13.60	616.69	-	-	616.69
	03/15/2005	630.29	13.33	616.96	-	-	616.96
	04/08/2005	630.29	12.65	617.64	-	-	617.64
	04/19/2005	630.29	12.80	617.49	-	-	617.49
	04/21/2005	630.29	12.85	617.44	-	-	617.44
	05/02/2005	630.29	11.55	618.74	-	-	618.74
	05/19/2005	630.29	12.10	618.19	-	-	618.19
	06/08/2005	630.29	12.12	618.17	-	-	618.17
	06/17/2005	630.29	12.30	617.99	-	-	617.99
	04/24/2006	630.29	7.57	622.72	-	-	622.72
	10/03/2006	630.29	12.01	618.28	-	-	618.28
	05/22/2007	630.29	10.45	619.84	-	-	619.84
1595-PZ9	09/07/2004	630.77	10.67	620.10	-	-	620.10
	09/15/2005	630.77	9.50	621.27	-	-	621.27
	10/04/2004	630.77	10.84	619.93	-	-	619.93
	11/08/2004	630.77	11.43	619.34	-	-	619.34
	12/01/2004	630.77	10.88	619.89	-	-	619.89
	01/04/2005	630.77	9.32	621.45	-	-	621.45
	02/01/2005	630.77	9.91	620.86	-	-	620.86
	03/03/2005	630.77	9.97	620.80	-	-	620.80
	04/08/2005	630.77	8.54	622.23	-	-	622.23
	04/19/2005	630.77	8.89	621.88	-	-	621.88
	05/02/2005	630.77	8.38	622.39	-	-	622.39
	06/08/2005	630.77	9.31	621.46	-	-	621.46
	04/24/2006	630.77	7.78	622.99	-	-	622.99
	10/03/2006	630.77	9.08	621.69	-	-	621.69
	05/22/2007	630.77	7.22	623.55	-	-	623.55
1595-PZ10	09/07/2004	640.33	16.59	623.74	-	-	623.74
	09/15/2005	640.33	16.12	624.21	-	-	624.21
	10/04/2004	640.33	16.54	623.79	-	-	623.79
	11/08/2004	640.33	17.13	623.20	-	-	623.20
	12/01/2004	640.33	17.26	623.07	-	-	623.07
	01/04/2005	640.33	15.59	624.74	-	-	624.74
	02/01/2005	640.33	15.49	624.84	-	-	624.84
	03/03/2005	640.33	16.01	624.32	-	-	624.32
	04/08/2005	640.33	14.71	625.62	-	-	625.62

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/19/2005	640.33	14.67	625.66	-	-	625.66
	05/02/2005	640.33	14.73	625.60	-	-	625.60
	06/08/2005	640.33	15.23	625.10	-	-	625.10
	04/24/2006	640.33	13.29	627.04	-	-	627.04
	10/03/2006	640.33	15.87	624.46	-	-	624.46
	05/22/2007	640.33	13.03	627.30	-	-	627.30
1595-PZ11	12/05/2002	639.63	17.60	622.03	-	-	622.03
	12/13/2002	639.63	17.40	622.23	-	-	622.23
	12/17/2002	639.63	16.95	622.68	-	-	622.68
	12/23/2002	639.63	17.06	622.57	-	-	622.57
	12/27/2002	639.63	16.78	622.85	-	-	622.85
	01/09/2003	639.63	16.48	623.15	-	-	623.15
	01/22/2003	639.63	16.99	622.64	-	-	622.64
	01/28/2003	639.63	17.09	622.54	-	-	622.54
	02/07/2003	639.63	17.40	622.23	-	-	622.23
	02/12/2003	639.63	17.06	622.57	-	-	622.57
	02/18/2003	639.63	17.30	622.33	-	-	622.33
	09/07/2004	639.63	16.64	622.99	-	-	622.99
	09/15/2004	639.63	16.21	623.42	-	-	623.42
	09/21/2004	639.63	16.35	623.28	-	-	623.28
	10/04/2004	639.63	16.59	623.04	-	-	623.04
	10/19/2004	639.63	16.48	623.15	-	-	623.15
	10/29/2004	639.63	16.79	622.84	-	-	622.84
	11/08/2004	639.63	17.22	622.41	-	-	622.41
	12/01/2004	639.63	17.27	622.36	-	-	622.36
	12/16/2004	639.63	16.07	623.56	-	-	623.56
	12/23/2004	639.63	15.89	623.74	-	-	623.74
	01/04/2005	639.63	15.55	624.08	-	-	624.08
	01/13/2005	639.63	15.59	624.04	-	-	624.04
	02/01/2005	639.63	15.52	624.11	-	-	624.11
	02/23/2005	639.63	15.89	623.74	-	-	623.74
	03/03/2005	639.63	16.08	623.55	-	-	623.55
	03/15/2005	639.63	16.08	623.55	-	-	623.55
	04/08/2005	639.63	14.57	625.06	-	-	625.06
	04/19/2005	639.63	14.63	625.00	-	-	625.00
	04/21/2005	639.63	14.72	624.91	-	-	624.91
	05/02/2005	639.63	14.62	625.01	-	-	625.01
	05/19/2005	639.63	14.84	624.79	-	-	624.79
	06/08/2005	639.63	15.18	624.45	-	-	624.45
	06/17/2005	639.63	15.45	624.18	-	-	624.18
	04/24/2006	639.63	13.22	626.41	-	-	626.41
	10/03/2006	639.63	15.65	623.98	-	-	623.98
	05/22/2007	639.63	13.04	626.59	-	-	626.59
1595-PZ12	09/07/2004	637.87	15.52	622.35	-	-	622.35
	09/15/2005	637.87	15.01	622.86	-	-	622.86
	10/04/2004	637.87	15.52	622.35	-	-	622.35
	11/08/2004	637.87	16.03	621.84	-	-	621.84
	12/01/2004	637.87	16.27	621.60	-	-	621.60
	01/04/2005	637.87	14.76	623.11	-	-	623.11
	02/01/2005	637.87	14.56	623.31	-	-	623.31
	03/03/2005	637.87	15.03	622.84	-	-	622.84
	04/08/2005	637.87	14.18	623.69	-	-	623.69
	04/19/2005	637.87	5.87	632.00	-	-	632.00
	05/02/2005	637.87	13.92	623.95	-	-	623.95
	06/08/2005	637.87	14.44	623.43	-	-	623.43
	04/24/2006	637.87	12.41	625.46	-	-	625.46
	10/03/2006	637.87	15.16	622.71	-	-	622.71
	05/22/2007	637.87	12.08	625.79	-	-	625.79
1595-PZ13	09/07/2004	654.40	11.82	642.58	-	-	642.58

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/15/2005	654.40	11.99	642.41	-	-	642.41
	10/04/2004	654.40	11.83	642.57	-	-	642.57
	11/08/2004	654.40	12.34	642.06	-	-	642.06
	01/04/2005	654.40	11.16	643.24	-	-	643.24
	02/01/2005	654.40	10.96	643.44	-	-	643.44
	04/08/2005	654.40	10.64	643.76	-	-	643.76
	04/19/2005	654.40	10.20	644.20	-	-	644.20
	05/02/2005	654.40	10.21	644.19	-	-	644.19
	06/08/2005	654.40	10.81	643.59	-	-	643.59
	04/24/2006	654.40	8.70	645.70	-	-	645.70
10/03/2006	654.40	11.60	642.80	-	-	642.80	
05/22/2007	654.40	8.35	646.05	-	-	646.05	
1595-RW1	12/05/2002	631.30	16.33	614.97	-	-	614.97
	12/13/2002	631.30	15.21	616.09	-	-	616.09
	12/17/2002	631.30	12.42	618.88	-	-	618.88
	12/23/2002	631.30	27.82	603.48	-	-	603.48
	12/27/2002	631.30	25.97	605.33	-	-	605.33
	01/09/2003	631.30	15.47	615.83	-	-	615.83
	01/22/2003	631.30	19.31	611.99	-	-	611.99
	01/28/2003	631.30	19.51	611.79	-	-	611.79
	02/07/2003	631.30	17.11	614.19	-	-	614.19
	02/12/2003	631.30	15.59	615.71	15.57	0.02	615.73
	02/18/2003	631.30	18.69	612.61	18.54	0.15	612.72
	09/07/2004	631.30	22.06	609.24	-	-	609.24
	09/14/2004	631.30	22.02	609.28	-	-	609.28
	09/21/2004	631.30	21.29	610.01	-	-	610.01
	10/04/2004	631.30	18.56	612.74	-	-	612.74
	10/19/2004	631.30	12.12	619.18	-	-	619.18
	10/29/2004	631.30	20.78	610.52	-	-	610.52
	11/08/2004	631.30	19.79	611.51	-	-	611.51
	12/01/2004	631.30	21.86	609.44	-	-	609.44
	12/16/2004	631.30	20.68	610.62	-	-	610.62
	12/23/2004	631.30	12.18	619.12	-	-	619.12
	01/04/2005	631.30	19.53	611.77	-	-	611.77
	01/13/2005	631.30	18.83	612.47	-	-	612.47
	02/01/2005	631.30	19.57	611.73	-	-	611.73
	02/23/2005	631.30	17.21	614.09	-	-	614.09
	03/03/2005	631.30	16.33	614.97	-	-	614.97
	03/15/2005	631.30	15.36	615.94	-	-	615.94
	04/08/2005	631.30	18.06	613.24	-	-	613.24
	04/19/2005	631.30	19.55	611.75	18.78	0.77	612.34
	04/21/2005	631.30	18.70	612.60	17.87	0.83	613.23
05/02/2005	631.30	10.73	620.57	-	-	620.57	
05/19/2005	631.30	20.62	610.68	20.53	0.09	610.75	
06/08/2005	631.30	22.27	609.03	-	-	609.03	
06/17/2005	631.30	22.41	608.89	-	-	608.89	
Well Decommissioned During Construction of AA/SVE System							
1595-RW2	09/15/2004	NR	8.86	-	-	-	-
	04/19/2005	NR	7.82	-	-	-	-
	04/24/2006	NR	6.30	-	-	-	-
	10/03/2006	NR	7.94	-	-	-	-
	05/22/2007	NR	6.40	-	-	-	-
1595-RW3	12/05/2002	628.80	14.79	614.01	-	-	614.01
	12/13/2002	628.80	15.70	613.10	-	-	613.10
	12/17/2002	628.80	10.72	618.08	-	-	618.08
	12/23/2002	628.80	15.26	613.54	-	-	613.54
	12/27/2002	628.80	15.39	613.41	-	-	613.41
	01/09/2003	628.80	16.10	612.70	-	-	612.70
	01/22/2003	628.80	15.85	612.95	-	-	612.95
	01/28/2003	628.80	15.68	613.12	-	-	613.12

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/07/2003	628.80	16.00	612.80	-	-	612.80
	02/12/2003	628.80	15.81	612.99	-	-	612.99
	02/18/2003	628.80	15.89	612.91	-	-	612.91
	09/07/2004	628.80	14.90	613.90	-	-	613.90
	09/15/2004	628.80	22.50	606.30	-	-	606.30
	09/21/2004	628.80	16.90	611.90	-	-	611.90
	10/04/2004	628.80	15.37	613.43	-	-	613.43
	10/19/2004	628.80	10.42	618.38	-	-	618.38
	10/29/2004	628.80	15.11	613.69	-	-	613.69
	11/08/2004	628.80	17.49	611.31	-	-	611.31
	12/01/2004	628.80	16.84	611.96	-	-	611.96
	12/16/2004	628.80	17.80	611.00	-	-	611.00
	12/23/2004	628.80	10.57	618.23	-	-	618.23
	01/04/2005	628.80	15.94	612.86	-	-	612.86
	01/13/2005	628.80	14.22	614.58	-	-	614.58
	02/01/2005	628.80	16.00	612.80	-	-	612.80
	02/23/2005	628.80	17.15	611.65	-	-	611.65
	03/03/2005	628.80	16.81	611.99	-	-	611.99
	03/15/2005	628.80	15.46	613.34	-	-	613.34
	04/08/2005	628.80	14.79	614.01	-	-	614.01
	04/19/2005	628.80	16.92	611.88	-	-	611.88
	04/21/2005	628.80	16.40	612.40	-	-	612.40
	05/02/2005	628.80	9.16	619.64	-	-	619.64
	05/19/2005	628.80	10.04	618.76	-	-	618.76
	06/08/2005	628.80	10.04	618.76	-	-	618.76
	06/17/2005	628.80	10.23	618.57	-	-	618.57
	04/24/2006	628.80	8.09	620.71	-	-	620.71
	10/03/2006	628.80	9.60	619.20	-	-	619.20
	05/22/2007	628.80	8.03	620.77	-	-	620.77
1595-RW4	12/05/2002	638.96	21.92	617.04	-	-	617.04
	12/13/2002	638.96	21.85	617.11	-	-	617.11
	12/17/2002	638.96	16.58	622.38	-	-	622.38
	12/23/2002	638.96	18.45	620.51	-	-	620.51
	12/27/2002	638.96	16.65	622.31	-	-	622.31
	01/09/2003	638.96	16.41	622.55	16.35	0.06	622.60
	01/22/2003	638.96	18.36	620.60	18.33	0.03	620.62
	01/28/2003	638.96	16.93	622.03	16.91	0.02	622.05
	02/07/2003	638.96	19.47	619.49	-	-	619.49
	02/12/2003	638.96	16.86	622.10	-	-	622.10
	02/18/2003	638.96	17.88	621.08	17.85	0.03	621.10
	09/07/2004	638.96	17.21	621.75	17.19	0.02	621.77
	09/15/2004	638.96	18.42	620.54	18.41	0.01	620.55
	09/21/2004	638.96	17.41	621.55	-	-	621.55
	10/04/2004	638.96	16.57	622.39	16.54	0.03	622.41
	10/19/2004	638.96	16.18	622.78	-	-	622.78
	10/29/2004	638.96	17.34	621.62	-	-	621.62
	11/08/2004	638.96	18.57	620.39	18.54	0.03	620.41
	12/01/2004	638.96	18.67	620.29	-	-	620.29
	12/16/2004	638.96	16.60	622.36	16.54	0.06	622.41
	12/23/2004	638.96	15.61	623.35	-	-	623.35
	01/04/2005	638.96	16.57	622.39	16.56	0.01	622.40
	01/13/2005	638.96	16.37	622.59	16.31	0.06	622.64
	02/01/2005	638.96	15.40	623.56	-	-	623.56
	02/23/2005	638.96	17.03	621.93	17.02	0.01	621.94
	03/03/2005	638.96	17.90	621.06	17.86	0.04	621.09
	03/15/2005	638.96	17.68	621.28	17.62	0.06	621.33
	04/08/2005	638.96	14.29	624.67	-	-	624.67
	04/19/2005	638.96	14.42	624.54	14.41	0.01	624.55
	04/21/2005	638.96	14.57	624.39	14.52	0.05	624.43
	05/02/2005	638.96	14.33	624.63	-	-	624.63
	05/19/2005	638.96	14.75	624.21	14.63	0.12	624.30

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/08/2005	638.96	14.96	624.00	14.92	0.04	624.03
	06/17/2005	638.96	15.20	623.76	-	-	623.76
	04/24/2006	638.96	12.97	625.99	-	-	625.99
	10/03/2006	638.96	15.33	623.63	15.29	0.04	623.66
	05/22/2007	638.96	12.82	626.14	-	-	626.14
1595-RW5	12/05/2002	630.45	13.08	617.37	-	-	617.37
	12/13/2002	630.45	12.35	618.10	-	-	618.10
	12/17/2002	630.45	10.62	619.83	-	-	619.83
	12/23/2002	630.45	13.20	617.25	-	-	617.25
	12/27/2002	630.45	13.02	617.43	-	-	617.43
	01/09/2003	630.45	12.81	617.64	-	-	617.64
	01/22/2003	630.45	16.31	614.14	-	-	614.14
	01/28/2003	630.45	15.64	614.81	-	-	614.81
	02/07/2003	630.45	15.25	615.20	-	-	615.20
	02/12/2003	630.45	14.71	615.74	-	-	615.74
	02/18/2003	630.45	14.31	616.14	-	-	616.14
	09/07/2004	630.45	13.19	617.26	-	-	617.26
	09/16/2004	630.45	13.00	617.45	-	-	617.45
	09/21/2004	630.45	13.15	617.30	-	-	617.30
	10/04/2004	630.45	14.25	616.20	-	-	616.20
	10/19/2004	630.45	10.35	620.10	-	-	620.10
	10/29/2004	630.45	13.13	617.32	-	-	617.32
	11/08/2004	630.45	13.34	617.11	-	-	617.11
	12/01/2004	630.45	13.39	617.06	-	-	617.06
	12/16/2004	630.45	13.28	617.17	-	-	617.17
	12/23/2004	630.45	10.17	620.28	-	-	620.28
	01/04/2005	630.45	12.09	618.36	-	-	618.36
	01/13/2005	630.45	11.71	618.74	-	-	618.74
	02/01/2005	630.45	13.93	616.52	-	-	616.52
	02/23/2005	630.45	12.38	618.07	-	-	618.07
	03/03/2005	630.45	12.73	617.72	-	-	617.72
	03/15/2005	630.45	13.18	617.27	-	-	617.27
	04/08/2005	630.45	11.33	619.12	-	-	619.12
	04/19/2005	630.45	12.18	618.27	-	-	618.27
	04/21/2005	630.45	12.32	618.13	-	-	618.13
	05/02/2005	630.45	8.90	621.55	-	-	621.55
	05/19/2005	630.45	12.15	618.30	-	-	618.30
	06/08/2005	630.45	12.75	617.70	-	-	617.70
	06/17/2005	630.45	11.72	618.73	-	-	618.73
	04/24/2006	630.45	7.83	622.62	-	-	622.62
	10/03/2006	630.45	9.46	620.99	-	-	620.99
	05/22/2007	630.45	7.86	622.59	-	-	622.59
1595-RW6	12/05/2002	620.40	4.87	615.53	-	-	615.53
	12/13/2002	620.40	4.80	615.60	-	-	615.60
	12/17/2002	620.40	4.58	615.82	-	-	615.82
	12/23/2002	620.40	4.79	615.61	-	-	615.61
	12/27/2002	620.40	4.82	615.58	-	-	615.58
	01/09/2003	620.40	4.70	615.70	-	-	615.70
	01/22/2003	620.40	5.09	615.31	-	-	615.31
	01/28/2003	620.40	5.16	615.24	-	-	615.24
	02/07/2003	620.40	5.05	615.35	-	-	615.35
	02/12/2003	620.40	5.02	615.38	-	-	615.38
	02/18/2003	620.40	NR	-	NR	-	-
	09/07/2004	620.40	4.92	615.48	-	-	615.48
	09/15/2004	620.40	4.60	615.80	-	-	615.80
	09/21/2004	620.40	4.76	615.64	-	-	615.64
	10/04/2004	620.40	4.94	615.46	-	-	615.46
	10/19/2004	620.40	4.40	616.00	-	-	616.00
	10/29/2004	620.40	4.73	615.67	-	-	615.67
	11/08/2004	620.40	5.03	615.37	-	-	615.37

**Table B-1
Historical Well Gauging Data Summary**

**Area 1595
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	620.40	4.79	615.61	-	-	615.61
	12/16/2004	620.40	4.50	615.90	-	-	615.90
	12/23/2004	620.40	4.40	616.00	-	-	616.00
	01/04/2005	620.40	4.15	616.25	-	-	616.25
	01/13/2005	620.40	4.36	616.04	-	-	616.04
	02/01/2005	620.40	4.58	615.82	-	-	615.82
	02/23/2005	620.40	4.49	615.91	-	-	615.91
	03/03/2005	620.40	4.58	615.82	-	-	615.82
	03/15/2005	620.40	4.48	615.92	-	-	615.92
	04/08/2005	620.40	4.02	616.38	-	-	616.38
	04/19/2005	620.40	4.15	616.25	-	-	616.25
	04/21/2005	620.40	4.17	616.23	-	-	616.23
	05/02/2005	620.40	3.91	616.49	-	-	616.49
	05/19/2005	620.40	4.23	616.17	-	-	616.17
	06/08/2005	620.40	4.26	616.14	-	-	616.14
	06/17/2005	620.40	4.23	616.17	-	-	616.17
	04/24/2006	620.40	3.45	616.95	-	-	616.95
	10/03/2006	620.40	3.90	616.50	-	-	616.50
	05/22/2007	620.40	3.55	616.85	-	-	616.85
1595-RW7	12/05/2002	623.30	9.33	613.97	-	-	613.97
	12/13/2002	623.30	9.31	613.99	-	-	613.99
	12/17/2002	623.30	9.13	614.17	-	-	614.17
	12/23/2002	623.30	9.30	614.00	-	-	614.00
	12/27/2002	623.30	9.35	613.95	-	-	613.95
	01/09/2003	623.30	9.26	614.04	-	-	614.04
	01/22/2003	623.30	9.42	613.88	-	-	613.88
	01/28/2003	623.30	9.48	613.82	-	-	613.82
	02/07/2003	623.30	9.46	613.84	-	-	613.84
	02/12/2003	623.30	9.45	613.85	-	-	613.85
	02/18/2003	623.30	9.43	613.87	-	-	613.87
	09/07/2004	623.30	9.20	614.10	-	-	614.10
	09/15/2004	623.30	8.98	614.32	-	-	614.32
	09/21/2004	623.30	9.14	614.16	-	-	614.16
	10/04/2004	623.30	9.25	614.05	-	-	614.05
	10/19/2004	623.30	8.93	614.37	-	-	614.37
	10/29/2004	623.30	9.15	614.15	-	-	614.15
	11/08/2004	623.30	9.38	613.92	-	-	613.92
	12/01/2004	623.30	9.35	613.95	-	-	613.95
	12/16/2004	623.30	9.05	614.25	-	-	614.25
	12/23/2004	623.30	8.98	614.32	-	-	614.32
	01/04/2005	623.30	8.73	614.57	-	-	614.57
	01/13/2005	623.30	8.86	614.44	-	-	614.44
	02/01/2005	623.30	8.88	614.42	-	-	614.42
	02/23/2005	623.30	8.84	614.46	-	-	614.46
	03/03/2005	623.30	8.92	614.38	-	-	614.38
	03/15/2005	623.30	8.87	614.43	-	-	614.43
	04/08/2005	623.30	8.47	614.83	-	-	614.83
	04/19/2005	623.30	8.48	614.82	-	-	614.82
	04/21/2005	623.30	8.48	614.82	-	-	614.82
	05/02/2005	623.30	8.29	615.01	-	-	615.01
	05/19/2005	623.30	8.39	614.91	-	-	614.91
	06/08/2005	623.30	8.47	614.83	-	-	614.83
	06/17/2005	623.30	8.52	614.78	-	-	614.78
	04/24/2006	623.30	7.61	615.69	-	-	615.69
	10/03/2006	623.30	8.55	614.75	-	-	614.75
	05/22/2007	623.30	9.53	613.77	-	-	613.77

NA = Not Available/Not Analyzed
 ND = Not Detected
 NR = Not Recorded

Table B-2
 Site 1595
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (in H ₂ O)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	940	On	28228.4	21.3	37353.7	21.4	5.0	118	30.30	0.0	82	4.8	7.0	114	0.0	58	0.00	633491.6	692.6	3.8	0.3	0.016	
11/02/11	0723	On	28250.3	21.9	37375.5	21.8	4.0	116	30.23	0.0	80	4.9	7.0	110	0.0	54	0.00	633491.6	700.2	3.5	0.3	0.015	
11/03/11	1255	Off	28276.1	25.8	37401.3	25.8	5.5	128	30.03	0.0	92	4.7	7.0	120	0.0	98	0.00	633491.6	676.5	3.9	0.4	0.016	
11/04/11	1020	On	28297.5	21.4	37422.7	21.4	4.0	116	30.23	0.0	88	4.8	7.0	114	0.0	58	0.00	633491.6	693.0	3.7	0.3	0.015	
11/07/11	1229	On	28372.6	75.1	37497.8	75.1	6.0	132	30.22	0.0	94	4.7	7.0	134	0.0	70	0.00	633491.6	676.3	3.0	0.9	0.012	
11/08/11	908	On	28393.3	20.7	37518.6	20.8	5.0	128	30.21	0.0	88	4.8	7.0	130	0.0	62	0.00	633491.6	685.7	3.1	0.3	0.013	
11/09/11	1311	On	28421.1	27.8	37546.5	27.9	7.0	138	29.98	0.0	100	4.6	7.0	144	0.0	78	0.00	633491.6	663.1	3.3	0.4	0.013	
11/10/11	NR	Off	NR	NR	NR	NR	NR	NR	29.84	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for planned power outage
11/11/11	1130	On	28458.8	37.7	37584.0	37.5	4.0	116	29.69	0.0	80	4.8	7.0	120	0.0	58	0.10	633491.6	686.8	2.9	0.5	0.012	
11/14/11	1006	On	28529.3	70.5	37654.6	70.6	6.0	136	29.62	0.0	106	4.8	7.0	140	0.0	78	0.10	633491.6	674.4	3.1	0.9	0.013	
11/15/11	0734	On	28550.8	21.5	37676.1	21.5	5.0	122	29.72	0.0	86	4.9	7.0	124	0.0	62	0.10	633491.6	690.7	3.0	0.3	0.012	
11/16/11	0947	On	28576.8	26.0	37702.1	26.0	5.0	128	29.80	0.0	88	4.7	7.0	126	0.0	62	0.10	633491.6	673.9	3.1	0.3	0.013	
11/17/11	0845	On	28600.0	23.2	37725.2	23.1	3.5	116	29.89	0.0	78	4.7	7.0	114	0.0	56	0.10	633491.6	681.9	2.9	0.3	0.012	
11/18/11	0619	On	28621.6	21.6	37746.8	21.6	3.5	112	30.20	0.0	78	5.0	7.0	114	0.0	52	0.10	633491.6	709.4	2.8	0.3	0.012	
11/21/11	1341	On	28701.0	79.4	37826.2	79.4	3.0	112	30.38	0.0	82	4.9	7.0	108	0.0	56	0.20	633491.6	704.4	2.8	0.9	0.012	
11/22/11	1301	On	28724.2	23.2	37849.4	23.2	3.0	112	30.30	0.0	82	4.9	7.0	114	0.0	52	0.20	633491.6	703.5	2.9	0.3	0.012	
11/28/11	0823	On	28863.6	139.4	37988.8	139.4	4.0	118	30.05	0.0	82	4.9	7.0	124	0.0	62	0.10	633491.6	696.9	2.6	1.5	0.011	
11/29/11	1148	On	28891.1	27.5	38016.3	27.5	5.0	126	29.81	0.0	90	4.7	7.0	128	0.0	64	0.00	633491.6	675.1	2.7	0.3	0.011	
11/30/11	1040	On	28913.9	22.8	38039.2	22.9	4.0	118	29.59	0.0	82	4.8	7.0	120	0.0	58	0.20	633491.6	684.4	2.8	0.3	0.011	
12/01/11	1015	On	28937.4	23.5	38062.7	23.5	4.0	112	30.25	0.0	76	5.0	7.0	108	0.0	52	0.20	633491.6	710.0	3.5	0.4	0.015	
12/02/11	1239	On	28963.9	26.5	38089.1	26.4	4.0	112	30.33	0.0	78	4.8	7.0	110	0.0	52	0.20	633491.6	696.6	3.4	0.4	0.014	
12/05/11	954	On	29033.2	69.3	38158.4	69.3	4.0	120	30.19	0.0	82	4.9	7.0	122	0.0	58	0.20	633491.6	697.3	3.3	1.0	0.014	
12/06/11	0740	On	29054.8	21.6	38180.0	21.6	4.0	116	30.08	0.0	78	5.0	7.0	112	0.0	52	0.20	633491.6	705.5	3.2	0.3	0.014	
12/07/11	0857	On	29080.1	25.3	38205.3	25.3	3.5	110	29.91	0.0	78	4.8	7.0	110	0.0	52	0.20	633491.6	693.0	2.8	0.3	0.012	
12/08/11	0927	On	29104.5	24.4	38229.7	24.4	3.0	112	29.97	0.0	78	4.8	7.0	108	0.0	52	0.20	633491.6	692.4	2.6	0.3	0.011	
12/09/11	0912	On	29128.3	23.8	38253.5	23.8	3.0	112	30.17	0.0	78	4.9	7.0	108	0.0	50	0.10	633491.6	701.9	2.6	0.3	0.011	
12/12/11	0721	On	29198.3	70.0	38323.5	70.0	3.0	108	30.46	0.0	78	5.0	7.0	102	0.0	52	0.20	633491.6	715.0	2.4	0.7	0.010	
12/13/11	0601	On	29220.6	22.3	38346.2	22.7	3.0	108	30.40	0.0	78	5.0	7.0	100	0.0	50	0.10	633491.6	714.3	2.6	0.2	0.011	Turn off for nutrient study
12/14/11	0933	On	NR	NR	38349.5	3.3	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	AS ran for Nutrient injection
12/15/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.69	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/16/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/19/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.87	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/20/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.17	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/21/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.69	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/27/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.38	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/29/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
12/30/11	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/03/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.04	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/04/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/05/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.82	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/06/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.71	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/09/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.11	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/10/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.85	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/11/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.97	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/12/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.54	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/13/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.35	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/16/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.08	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/17/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.60	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/18/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/19/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.87	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/23/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.85	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/24/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/25/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.27	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/26/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/27/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	29.52	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/30/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study
01/31/12	NR	Off	NR	NR	38349.5	0.0	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	633491.6	NR	NR	NR	NR	Off for nutrient study

Notes:
 NR = Not Recorded.
 in Hg = inches Mercury
 F = degrees Fahrenheit
 psi = Pressure per Square Inch
 in H₂O = inches Water
 cfm = Cubic Feet per Minute
 ppm = Parts Per Million
 lbs = Pounds
 lbs/hr = Pounds per Hour
 OWS = Oil Water Separator
 *Flowmeter may have been replaced for repairs during the duration of the system activation.

APPENDIX C

Summary of Well Gauging Results and Operation and Maintenance Data

Area 1795

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-3-2M	07/02/2009	648.22	5.23	642.99	-	-	642.99
	07/20/2009	648.22	5.51	642.71	-	-	642.71
	08/28/2009	648.22	5.97	642.25	-	-	642.25
	09/15/2009	648.22	8.42	639.80	-	-	639.80
	09/22/2009	648.22	8.35	639.87	-	-	639.87
	10/14/2009	648.22	8.79	639.43	-	-	639.43
	11/10/2009	648.22	8.68	639.54	-	-	639.54
	12/14/2009	648.22	9.36	638.86	-	-	638.86
	01/11/2010	648.22	9.66	638.56	-	-	638.56
	02/10/2010	648.22	9.07	639.15	-	-	639.15
	03/10/2010	648.22	9.21	639.01	-	-	639.01
	04/14/2010	648.22	9.02	639.20	-	-	639.20
	05/12/2010	652.54	9.91	642.63	-	-	642.63
	06/17/2010	652.54	10.25	642.29	-	-	642.29
	07/14/2010	652.54	10.49	642.05	-	-	642.05
	08/09/2010	652.54	10.28	642.26	-	-	642.26
	09/16/2010	652.54	9.98	642.56	-	-	642.56
	10/13/2010	652.54	8.78	643.76	-	-	643.76
	11/16/2010	652.54	9.77	642.77	-	-	642.77
	12/16/2010	652.54	9.54	643.00	-	-	643.00
	01/13/2011	652.54	9.15	643.39	-	-	643.39
	03/14/2011	652.54	6.98	645.56	-	-	645.56
	04/12/2011	652.54	8.23	644.31	-	-	644.31
	05/19/2011	652.54	6.91	645.63	-	-	645.63
	06/20/2011	652.54	8.01	644.53	-	-	644.53
	07/13/2011	652.54	8.10	644.44	-	-	644.44
	08/11/2011	652.54	8.36	644.18	-	-	644.18
	09/30/2011	652.54	9.39	643.15	-	-	643.15
10/19/2011	652.54	9.92	642.62	-	-	642.62	
11/17/2011	652.54	9.99	642.55	-	-	642.55	
12/07/2011	652.54	10.65	641.89	-	-	641.89	
01/09/2012	652.54	9.98	642.56	-	-	642.56	
1795-3-5M	07/02/2009	649.47	5.47	644.00	-	-	644.00
	07/20/2009	649.47	5.61	643.86	-	-	643.86
	08/28/2009	649.47	7.30	642.17	-	-	642.17
	09/15/2009	649.47	9.06	640.41	-	-	640.41
	09/22/2009	649.47	9.02	640.45	-	-	640.45
	10/14/2009	649.47	9.18	640.29	-	-	640.29
	11/10/2009	649.47	9.09	640.38	-	-	640.38
	12/14/2009	649.47	9.76	639.71	-	-	639.71
	01/11/2010	649.47	10.11	639.36	-	-	639.36
	02/10/2010	649.47	9.59	639.88	-	-	639.88
	03/10/2010	649.47	9.52	639.95	-	-	639.95
	04/14/2010	649.47	9.57	639.90	-	-	639.90
	05/12/2010	654.56	10.33	644.23	-	-	644.23
	06/17/2010	654.56	10.59	643.97	-	-	643.97
	07/14/2010	654.56	10.81	643.75	-	-	643.75
	08/09/2010	654.56	10.37	644.19	-	-	644.19
09/16/2010	654.56	10.22	644.34	-	-	644.34	
10/13/2010	654.56	9.05	645.51	-	-	645.51	
11/16/2010	654.56	10.10	644.46	-	-	644.46	

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/16/2010	654.56	9.96	644.60	-	-	644.60
	01/13/2011	654.56	9.61	644.95	-	-	644.95
	03/14/2011	654.56	7.44	647.12	-	-	647.12
	04/12/2011	654.56	8.89	645.67	-	-	645.67
	05/19/2011	654.56	7.55	647.01	-	-	647.01
	06/20/2011	654.56	8.91	645.65	-	-	645.65
	07/13/2011	654.56	8.90	645.66	-	-	645.66
	08/11/2011	654.56	8.01	646.55	-	-	646.55
	09/30/2011	654.56	9.79	644.77	-	-	644.77
	10/19/2011	654.56	10.17	644.39	-	-	644.39
	11/17/2011	654.56	10.28	644.28	-	-	644.28
	12/07/2011	654.56	10.91	643.65	-	-	643.65
	01/09/2012	654.56	10.29	644.27	-	-	644.27
1795-3-9M	07/02/2009	651.50	5.16	646.34	-	-	646.34
	07/20/2009	651.50	5.92	645.58	-	-	645.58
	08/28/2009	651.50	6.97	644.53	-	-	644.53
	09/15/2009	651.50	8.91	642.59	-	-	642.59
	09/22/2009	651.50	8.89	642.61	-	-	642.61
	10/14/2009	651.50	9.14	642.36	-	-	642.36
	11/10/2009	651.50	9.13	642.37	-	-	642.37
	12/14/2009	651.50	9.54	641.96	-	-	641.96
	01/11/2010	651.50	8.98	642.52	-	-	642.52
	02/10/2010	651.50	9.39	642.11	-	-	642.11
	03/10/2010	651.50	9.61	641.89	-	-	641.89
	04/14/2010	651.50	9.56	641.94	-	-	641.94
	05/12/2010	651.50	10.17	641.33	-	-	641.33
	06/17/2010	651.50	10.47	641.03	-	-	641.03
	07/14/2010	651.50	10.74	640.76	-	-	640.76
	08/09/2010	651.50	10.54	640.96	-	-	640.96
	09/16/2010	651.50	10.57	640.93	-	-	640.93
	10/13/2010	651.50	9.19	642.31	-	-	642.31
	11/16/2010	651.50	10.37	641.13	-	-	641.13
	12/16/2010	651.50	10.01	641.49	-	-	641.49
	01/13/2011	651.50	9.59	641.91	-	-	641.91
	03/14/2011	651.50	6.96	644.54	-	-	644.54
	04/12/2011	651.50	8.78	642.72	-	-	642.72
	05/19/2011	651.50	7.31	644.19	-	-	644.19
	06/20/2011	651.50	8.94	642.56	-	-	642.56
	07/13/2011	651.50	8.98	642.52	-	-	642.52
	08/11/2011	651.50	8.98	642.52	-	-	642.52
	09/30/2011	651.50	9.77	641.73	-	-	641.73
	10/19/2011	651.50	9.78	641.72	-	-	641.72
	11/17/2011	651.50	9.88	641.62	-	-	641.62
	12/07/2011	651.50	10.60	640.90	-	-	640.90
	01/09/2012	651.50	10.22	641.28	-	-	641.28
1795-4-3M	07/02/2009	652.94	11.66	641.28	-	-	641.28
	07/20/2009	652.94	11.58	641.36	-	-	641.36
	08/28/2009	652.94	12.98	639.96	-	-	639.96
	09/22/2009	652.94	14.18	638.76	-	-	638.76
	10/14/2009	652.94	14.72	638.22	-	-	638.22

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/10/2009	652.94	14.56	638.38	-	-	638.38
	12/14/2009	652.94	15.37	637.57	-	-	637.57
	01/11/2010	652.94	15.43	637.51	-	-	637.51
	02/10/2010	652.94	15.06	637.88	-	-	637.88
	03/10/2010	652.94	14.86	638.08	-	-	638.08
	04/14/2010	652.94	14.77	638.17	-	-	638.17
	05/12/2010	652.91	15.64	637.27	-	-	637.27
	06/17/2010	652.91	16.26	636.65	-	-	636.65
	07/14/2010	652.91	16.31	636.60	-	-	636.60
	08/09/2010	652.91	16.36	636.55	-	-	636.55
	09/16/2010	652.91	15.90	637.01	-	-	637.01
	10/13/2010	652.91	15.21	637.70	-	-	637.70
	11/16/2010	652.91	15.15	637.76	-	-	637.76
	12/16/2010	652.91	14.76	638.15	-	-	638.15
	01/13/2011	652.91	15.61	637.30	-	-	637.30
	03/14/2011	652.91	14.36	638.55	-	-	638.55
	04/12/2011	652.91	13.91	639.00	-	-	639.00
	05/19/2011	652.91	12.66	640.25	-	-	640.25
	06/20/2011	652.91	13.99	638.92	-	-	638.92
	07/13/2011	652.91	14.02	638.89	-	-	638.89
	08/11/2011	652.91	14.21	638.70	-	-	638.70
	09/30/2011	652.91	15.48	637.43	-	-	637.43
	10/19/2011	652.91	16.01	636.90	-	-	636.90
	11/17/2011	652.91	16.34	636.57	-	-	636.57
	12/07/2011	652.91	16.26	636.65	-	-	636.65
	01/09/2012	652.91	15.03	637.88	-	-	637.88
1795-4-4M	07/02/2009	648.53	6.63	641.90	-	-	641.90
	07/20/2009	648.53	6.84	641.69	-	-	641.69
	08/28/2009	648.53	8.20	640.33	-	-	640.33
	09/22/2009	648.53	9.45	639.08	-	-	639.08
	10/14/2009	648.53	9.97	638.56	-	-	638.56
	11/10/2009	648.53	9.90	638.63	-	-	638.63
	12/14/2009	648.53	16.21	632.32	-	-	632.32
	01/11/2010	648.53	16.41	632.12	-	-	632.12
	05/12/2010	652.96	10.94	642.02	-	-	642.02
	06/17/2010	652.96	11.51	641.45	-	-	641.45
	07/14/2010	652.96	16.59	636.37	-	-	636.37
	08/09/2010	652.96	16.44	636.52	-	-	636.52
	09/16/2010	652.96	17.31	635.65	-	-	635.65
	10/13/2010	652.96	16.11	636.85	-	-	636.85
	11/16/2010	652.96	16.03	636.93	-	-	636.93
	12/16/2010	652.96	15.59	637.37	-	-	637.37
	01/13/2011	652.96	15.48	637.48	-	-	637.48
	03/14/2011	652.96	14.80	638.16	-	-	638.16
	04/12/2011	652.96	15.41	637.55	-	-	637.55
	05/19/2011	652.96	12.91	640.05	-	-	640.05
	07/13/2011	652.96	14.61	638.35	-	-	638.35
	08/11/2011	652.96	14.50	638.46	-	-	638.46
	09/30/2011	652.96	15.88	637.08	-	-	637.08
	10/19/2011	652.96	16.21	636.75	-	-	636.75
	11/17/2011	652.96	16.18	636.78	-	-	636.78

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/07/2011	652.96	16.44	636.52	-	-	636.52
	01/09/2012	652.96	16.26	636.70	-	-	636.70
1795-4-6M	07/02/2009	649.02	6.28	642.74	-	-	642.74
	07/20/2009	649.02	6.16	642.86	-	-	642.86
	08/28/2009	649.02	7.75	641.27	-	-	641.27
	09/22/2009	649.02	9.18	639.84	-	-	639.84
	10/14/2009	649.02	9.63	639.39	-	-	639.39
	11/10/2009	649.02	9.44	639.58	-	-	639.58
	12/14/2009	649.02	10.17	638.85	-	-	638.85
	01/11/2010	649.02	10.34	638.68	-	-	638.68
	02/10/2010	649.02	9.12	639.90	-	-	639.90
	03/10/2010	649.02	9.86	639.16	-	-	639.16
	04/14/2010	649.02	9.88	639.14	-	-	639.14
	05/12/2010	653.68	10.71	642.97	-	-	642.97
	06/17/2010	653.68	11.14	642.54	-	-	642.54
	07/14/2010	653.68	11.04	642.64	-	-	642.64
	08/09/2010	653.68	11.23	642.45	-	-	642.45
	09/16/2010	653.68	10.71	642.97	-	-	642.97
	10/13/2010	653.68	9.76	643.92	-	-	643.92
	11/16/2010	653.68	10.09	643.59	-	-	643.59
	12/16/2010	653.68	9.83	643.85	-	-	643.85
	01/13/2011	653.68	10.54	643.14	-	-	643.14
	03/14/2011	653.68	7.67	646.01	-	-	646.01
	04/12/2011	653.68	9.12	644.56	-	-	644.56
	05/19/2011	653.68	7.59	646.09	-	-	646.09
	06/20/2011	653.68	9.00	644.68	-	-	644.68
	07/13/2011	653.68	9.10	644.58	-	-	644.58
	08/11/2011	653.68	9.71	643.97	-	-	643.97
	09/30/2011	653.68	10.31	643.37	-	-	643.37
	10/19/2011	653.68	10.84	642.84	-	-	642.84
	11/17/2011	653.68	10.93	642.75	-	-	642.75
	12/07/2011	653.68	11.35	642.33	-	-	642.33
	01/09/2012	653.68	10.77	642.91	-	-	642.91
1795-5-4M	07/02/2009	646.50	5.49	641.01	-	-	641.01
	07/20/2009	646.50	5.55	640.95	-	-	640.95
	08/28/2009	646.50	6.45	640.05	-	-	640.05
	09/22/2009	646.50	7.81	638.69	-	-	638.69
	10/14/2009	646.50	8.23	638.27	-	-	638.27
	11/10/2009	646.50	8.33	638.17	-	-	638.17
	12/14/2009	646.50	8.91	637.59	-	-	637.59
	01/11/2010	646.50	8.84	637.66	-	-	637.66
	02/10/2010	646.50	9.11	637.39	-	-	637.39
	03/10/2010	646.50	8.42	638.08	-	-	638.08
	04/14/2010	646.50	8.08	638.42	-	-	638.42
	05/12/2010	653.93	10.13	643.80	-	-	643.80
	06/17/2010	653.93	10.69	643.24	-	-	643.24
	07/14/2010	653.93	10.49	643.44	-	-	643.44
	08/09/2010	653.93	10.78	643.15	10.78	0.00	643.15
	09/16/2010	653.93	10.60	643.33	10.45	0.15	643.48
	10/13/2010	653.93	9.27	644.66	-	-	644.66

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/16/2010	653.93	10.16	643.77	-	-	643.77
	12/16/2010	653.93	9.19	644.74	-	-	644.74
	01/13/2011	653.93	8.82	645.11	-	-	645.11
	03/14/2011	653.93	9.77	644.16	-	-	644.16
	04/12/2011	653.93	7.73	646.20	-	-	646.20
	05/19/2011	653.93	10.63	643.30	-	-	643.30
	06/20/2011	653.93	7.71	646.22	-	-	646.22
	07/13/2011	653.93	8.39	645.54	-	-	645.54
	08/11/2011	653.93	8.40	645.53	-	-	645.53
	09/30/2011	653.93	8.19	645.74	-	-	645.74
	10/19/2011	653.93	9.06	644.87	-	-	644.87
	11/17/2011	653.93	9.07	644.86	-	-	644.86
	12/07/2011	653.93	10.05	643.88	-	-	643.88
	01/09/2012	653.93	12.83	641.10	-	-	641.10
1795-5-5M	07/02/2009	651.54	10.56	640.98	-	-	640.98
	07/20/2009	651.54	10.09	641.45	-	-	641.45
	08/28/2009	651.54	11.52	640.02	-	-	640.02
	09/22/2009	651.54	12.90	638.64	-	-	638.64
	10/14/2009	651.54	13.28	638.26	-	-	638.26
	11/10/2009	651.54	13.23	638.31	-	-	638.31
	12/14/2009	651.54	13.98	637.56	-	-	637.56
	01/11/2010	651.54	13.99	637.55	-	-	637.55
	02/10/2010	651.54	14.58	636.96	-	-	636.96
	03/10/2010	651.54	13.39	638.15	-	-	638.15
	04/14/2010	651.54	13.08	638.46	-	-	638.46
	05/12/2010	654.68	15.14	639.54	-	-	639.54
	06/17/2010	654.68	15.63	639.05	-	-	639.05
	07/14/2010	654.68	14.41	640.27	-	-	640.27
	08/09/2010	654.68	15.95	638.73	15.60	0.35	639.08
	09/16/2010	654.68	14.30	640.38	14.25	0.05	640.43
	10/13/2010	654.68	12.34	642.34	-	-	642.34
	11/16/2010	654.68	12.74	641.94	-	-	641.94
	12/16/2010	654.68	12.06	642.62	-	-	642.62
	01/13/2011	654.68	13.87	640.81	-	-	640.81
	03/14/2011	654.68	14.81	639.87	-	-	639.87
	04/12/2011	654.68	12.78	641.90	-	-	641.90
	05/19/2011	654.68	5.65	649.03	-	-	649.03
	06/20/2011	654.68	12.91	641.77	-	-	641.77
	07/13/2011	654.68	13.55	641.13	-	-	641.13
	08/11/2011	654.68	14.01	640.67	-	-	640.67
	09/30/2011	654.68	13.01	641.67	-	-	641.67
	10/19/2011	654.68	13.84	640.84	-	-	640.84
	11/17/2011	654.68	13.90	640.78	-	-	640.78
	12/07/2011	654.68	14.02	640.66	-	-	640.66
	01/09/2012	654.68	8.40	646.28	-	-	646.28
1795-5-10M	07/02/2009	646.13	5.48	640.65	-	-	640.65
	07/20/2009	646.13	5.14	640.99	-	-	640.99
	08/28/2009	646.13	6.40	639.73	-	-	639.73
	09/22/2009	646.13	7.95	638.18	-	-	638.18
	10/14/2009	646.13	8.14	637.99	-	-	637.99

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/10/2009	646.13	8.18	637.95	-	-	637.95
	12/14/2009	646.13	8.76	637.37	-	-	637.37
	01/11/2010	646.13	8.83	637.30	-	-	637.30
	02/10/2010	646.13	8.49	637.64	-	-	637.64
	03/10/2010	646.13	8.49	637.64	-	-	637.64
	04/14/2010	646.13	8.13	638.00	-	-	638.00
	05/12/2010	656.61	10.06	646.55	-	-	646.55
	06/17/2010	656.61	10.46	646.15	-	-	646.15
	07/14/2010	656.61	9.30	647.31	-	-	647.31
	08/09/2010	656.61	10.44	646.17	-	-	646.17
	09/16/2010	656.61	10.25	646.36	-	-	646.36
	10/13/2010	656.61	7.14	649.47	-	-	649.47
	11/16/2010	656.61	8.82	647.79	-	-	647.79
	12/16/2010	656.61	8.26	648.35	-	-	648.35
	01/13/2011	656.61	7.78	648.83	-	-	648.83
	03/14/2011	656.61	7.53	649.08	-	-	649.08
	04/12/2011	656.61	7.83	648.78	-	-	648.78
	05/19/2011	656.61	5.43	651.18	-	-	651.18
	06/20/2011	656.61	7.93	648.68	-	-	648.68
	07/13/2011	656.61	8.46	648.15	-	-	648.15
	08/11/2011	656.61	8.93	647.68	-	-	647.68
	09/30/2011	656.61	8.14	648.47	-	-	648.47
	10/19/2011	656.61	10.15	646.46	-	-	646.46
	11/17/2011	656.61	10.14	646.47	-	-	646.47
	12/07/2011	656.61	10.53	646.08	-	-	646.08
	01/09/2012	656.61	9.60	647.01	-	-	647.01
1795-001	09/15/2004	NR	10.27	-	-	-	-
	04/19/2005	NR	10.28	-	-	-	-
	04/25/2006	NR	8.83	-	-	-	-
	10/05/2006	NR	11.14	-	-	-	-
	05/23/2007	NR	NR	-	NR	-	-
1795-003	09/15/2004	NR	7.45	-	-	-	-
	04/19/2005	NR	6.40	-	-	-	-
	04/25/2006	NR	4.76	-	-	-	-
	10/05/2006	NR	7.57	-	-	-	-
	05/23/2007	NR	5.17	-	-	-	-
1795-MWS1	09/15/2004	NR	21.02	-	-	-	-
	04/19/2005	NR	19.60	-	-	-	-
	04/25/2006	NR	17.91	-	-	-	-
	10/05/2006	NR	21.40	-	-	-	-
	05/23/2007	NR	17.29	-	-	-	-
1795-MWS2	12/02/2002	642.23	15.15	627.08	-	-	627.08
	01/06/2003	642.23	14.84	627.39	-	-	627.39
	02/07/2003	642.23	14.88	627.35	-	-	627.35
	09/02/2004	642.23	13.48	628.75	-	-	628.75
	09/15/2004	642.23	13.18	629.05	-	-	629.05
	10/04/2004	642.23	13.62	628.61	-	-	628.61
	11/01/2004	642.23	14.14	628.09	-	-	628.09

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/03/2004	642.23	14.47	627.76	-	-	627.76
	01/04/2005	642.23	13.00	629.23	-	-	629.23
	02/03/2005	642.23	12.23	630.00	-	-	630.00
	03/01/2005	642.23	12.70	629.53	-	-	629.53
	04/07/2005	642.23	11.55	630.68	-	-	630.68
	04/19/2005	642.23	11.13	631.10	-	-	631.10
	05/03/2005	642.23	11.43	630.80	-	-	630.80
	06/01/2005	642.23	11.83	630.40	-	-	630.40
	07/05/2005	642.23	12.75	629.48	-	-	629.48
	08/01/2005	642.23	13.29	628.94	-	-	628.94
	09/07/2005	642.23	13.93	628.30	-	-	628.30
	10/05/2005	642.23	13.72	628.51	-	-	628.51
	11/08/2005	642.23	12.26	629.97	-	-	629.97
	12/09/2005	642.23	10.72	631.51	-	-	631.51
	01/06/2006	642.23	11.26	630.97	-	-	630.97
	02/02/2006	642.23	9.96	632.27	-	-	632.27
	03/21/2006	642.23	9.30	632.93	-	-	632.93
	04/06/2006	642.23	9.76	632.47	-	-	632.47
	04/25/2006	642.23	10.17	632.06	-	-	632.06
	05/11/2006	642.23	10.34	631.89	-	-	631.89
	06/12/2006	642.23	11.20	631.03	-	-	631.03
	07/07/2006	642.23	11.65	630.58	-	-	630.58
	10/05/2006	642.23	13.95	628.28	-	-	628.28
	05/23/2007	642.23	9.82	632.41	-	-	632.41
1795-MWS3	12/02/2002	644.96	16.10	628.86	-	-	628.86
	01/06/2003	644.96	15.78	629.18	-	-	629.18
	02/07/2003	644.96	15.75	629.21	-	-	629.21
	09/02/2004	644.96	14.47	630.49	-	-	630.49
	09/15/2004	644.96	14.45	630.51	-	-	630.51
	10/04/2004	644.96	14.67	630.29	-	-	630.29
	11/01/2004	644.96	15.09	629.87	-	-	629.87
	12/03/2004	644.96	15.42	629.54	-	-	629.54
	01/04/2005	644.96	14.02	630.94	-	-	630.94
	02/03/2005	644.96	13.14	631.82	-	-	631.82
	03/01/2005	644.96	13.64	631.32	-	-	631.32
	04/07/2005	644.96	12.64	632.32	-	-	632.32
	04/19/2005	644.96	12.07	632.89	-	-	632.89
	05/03/2005	644.96	12.35	632.61	-	-	632.61
	06/01/2005	644.96	12.78	632.18	-	-	632.18
	07/05/2005	644.96	13.73	631.23	-	-	631.23
	08/01/2005	644.96	14.32	630.64	-	-	630.64
	09/07/2005	644.96	15.05	629.91	-	-	629.91
	10/05/2005	644.96	14.77	630.19	-	-	630.19
	11/08/2005	644.96	13.23	631.73	-	-	631.73
	12/09/2005	644.96	11.66	633.30	-	-	633.30
	01/06/2006	644.96	12.18	632.78	-	-	632.78
	02/02/2006	644.96	10.88	634.08	-	-	634.08
	03/21/2006	644.96	10.25	634.71	-	-	634.71
	04/06/2006	644.96	10.72	634.24	-	-	634.24
	04/25/2006	644.96	11.20	633.76	-	-	633.76
	05/11/2006	644.96	11.33	633.63	-	-	633.63

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/12/2006	644.96	12.16	632.80	-	-	632.80
	07/07/2006	644.96	12.59	632.37	-	-	632.37
	10/05/2006	644.96	14.94	630.02	-	-	630.02
	05/23/2007	644.96	10.75	634.21	-	-	634.21
1795-MWS4	12/02/2002	646.59	15.00	631.59	-	-	631.59
	01/06/2003	646.59	14.52	632.07	-	-	632.07
	02/07/2003	646.59	14.58	632.01	-	-	632.01
	09/02/2004	646.59	13.07	633.52	-	-	633.52
	09/15/2004	646.59	12.86	633.73	-	-	633.73
	10/04/2004	646.59	13.14	633.45	-	-	633.45
	11/01/2004	646.59	13.59	633.00	-	-	633.00
	12/03/2004	646.59	13.82	632.77	-	-	632.77
	01/04/2005	646.59	12.10	634.49	-	-	634.49
	02/03/2005	646.59	11.35	635.24	-	-	635.24
	03/01/2005	646.59	11.93	634.66	-	-	634.66
	04/07/2005	646.59	10.50	636.09	-	-	636.09
	04/19/2005	646.59	10.29	636.30	-	-	636.30
	05/03/2005	646.59	10.73	635.86	-	-	635.86
	06/01/2005	646.59	11.23	635.36	-	-	635.36
	07/05/2005	646.59	12.37	634.22	-	-	634.22
	08/01/2005	646.59	13.01	633.58	-	-	633.58
	09/07/2005	646.59	13.72	632.87	-	-	632.87
	10/05/2005	646.59	13.10	633.49	-	-	633.49
	11/08/2005	646.59	11.28	635.31	-	-	635.31
	12/09/2005	646.59	9.67	636.92	-	-	636.92
	01/06/2006	646.59	10.42	636.17	-	-	636.17
	02/02/2006	646.59	8.86	637.73	-	-	637.73
	03/21/2006	646.59	8.28	638.31	-	-	638.31
	04/06/2006	646.59	8.90	637.69	-	-	637.69
	04/25/2006	646.59	9.31	637.28	-	-	637.28
	05/11/2006	646.59	9.59	637.00	-	-	637.00
	06/12/2006	646.59	10.55	636.04	-	-	636.04
	07/07/2006	646.59	10.98	635.61	-	-	635.61
	10/05/2006	646.59	13.53	633.06	-	-	633.06
	05/23/2007	646.59	9.13	637.46	-	-	637.46
1795-MWS5	12/02/2002	654.78	19.18	635.60	-	-	635.60
	01/06/2003	654.78	18.56	636.22	-	-	636.22
	02/07/2003	654.78	18.82	635.96	-	-	635.96
	09/02/2004	654.78	17.55	637.23	-	-	637.23
	09/15/2004	654.78	17.15	637.63	-	-	637.63
	10/04/2004	654.78	17.62	637.16	-	-	637.16
	11/01/2004	654.78	18.03	636.75	-	-	636.75
	12/03/2004	654.78	17.97	636.81	-	-	636.81
	01/04/2005	654.78	16.28	638.50	-	-	638.50
	02/03/2005	654.78	15.92	638.86	-	-	638.86
	03/01/2005	654.78	16.31	638.47	-	-	638.47
	04/07/2005	654.78	15.04	639.74	-	-	639.74
	04/19/2005	654.78	15.14	639.64	-	-	639.64
	05/03/2005	654.78	15.46	639.32	-	-	639.32
	06/01/2005	654.78	16.04	638.74	-	-	638.74

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/05/2005	654.78	17.05	637.73	-	-	637.73
	08/01/2005	654.78	17.50	637.28	-	-	637.28
	09/07/2005	654.78	17.90	636.88	-	-	636.88
	10/05/2005	654.78	17.22	637.56	-	-	637.56
	11/08/2005	654.78	15.61	639.17	-	-	639.17
	12/09/2005	654.78	14.05	640.73	-	-	640.73
	01/06/2006	654.78	14.91	639.87	-	-	639.87
	02/02/2006	654.78	13.28	641.50	-	-	641.50
	03/21/2006	654.78	13.11	641.67	-	-	641.67
	04/06/2006	654.78	13.84	640.94	-	-	640.94
	04/25/2006	654.78	14.02	640.76	-	-	640.76
	05/11/2006	654.78	14.44	640.34	-	-	640.34
	06/12/2006	654.78	15.13	639.65	-	-	639.65
	07/07/2006	654.78	15.33	639.45	-	-	639.45
	10/05/2006	654.78	17.54	637.24	-	-	637.24
	05/23/2007	654.78	14.04	640.74	-	-	640.74
1795-MW6	09/15/2004	NR	6.81	-	-	-	-
	04/19/2005	NR	6.06	-	-	-	-
	04/25/2006	NR	4.34	-	-	-	-
	10/05/2006	NR	6.45	-	-	-	-
	05/23/2007	NR	4.92	-	-	-	-
1795-MWS6	12/02/2002	651.67	12.97	638.70	-	-	638.70
	01/06/2003	651.67	12.25	639.42	-	-	639.42
	02/07/2003	651.67	12.71	638.96	-	-	638.96
	09/02/2004	651.67	11.39	640.28	-	-	640.28
	09/15/2004	651.67	10.92	640.75	-	-	640.75
	10/04/2004	651.67	11.60	640.07	-	-	640.07
	11/01/2004	651.67	12.05	639.62	-	-	639.62
	12/03/2004	651.67	11.78	639.89	-	-	639.89
	01/04/2005	651.67	10.29	641.38	-	-	641.38
	02/03/2005	651.67	10.34	641.33	-	-	641.33
	03/01/2005	651.67	10.58	641.09	-	-	641.09
	04/07/2005	651.67	9.46	642.21	-	-	642.21
	04/19/2005	651.67	10.70	640.97	-	-	640.97
	05/03/2005	651.67	9.87	641.80	-	-	641.80
	06/01/2005	651.67	10.51	641.16	-	-	641.16
	07/05/2005	651.67	11.30	640.37	-	-	640.37
	08/01/2005	651.67	11.52	640.15	-	-	640.15
	09/07/2005	651.67	11.59	640.08	-	-	640.08
	10/05/2005	651.67	10.93	640.74	-	-	640.74
	11/08/2005	651.67	9.73	641.94	-	-	641.94
	12/09/2005	651.67	5.83	645.84	-	-	645.84
	01/06/2006	651.67	9.03	642.64	-	-	642.64
	02/02/2006	651.67	7.64	644.03	-	-	644.03
	03/21/2006	651.67	7.86	643.81	-	-	643.81
	04/06/2006	651.67	8.42	643.25	-	-	643.25
	04/25/2006	651.67	8.42	643.25	-	-	643.25
	05/11/2006	651.67	9.00	642.67	-	-	642.67
	06/12/2006	651.67	9.51	642.16	-	-	642.16
	07/07/2006	651.67	9.68	641.99	-	-	641.99

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/05/2006	651.67	11.35	640.32	-	-	640.32
	05/23/2007	651.67	8.61	643.06	-	-	643.06
1795-MWS7	12/02/2002	653.24	11.65	641.59	-	-	641.59
	01/06/2003	653.24	10.98	642.26	-	-	642.26
	02/07/2003	653.24	11.56	641.68	-	-	641.68
	09/02/2004	653.24	9.99	643.25	-	-	643.25
	09/15/2004	653.24	9.43	643.81	-	-	643.81
	10/04/2004	653.24	10.38	642.86	-	-	642.86
	11/01/2004	653.24	10.89	642.35	-	-	642.35
	12/03/2004	653.24	9.93	643.31	-	-	643.31
	01/04/2005	653.24	8.73	644.51	-	-	644.51
	02/03/2005	653.24	9.28	643.96	-	-	643.96
	03/01/2005	653.24	9.05	644.19	-	-	644.19
	04/07/2005	653.24	8.45	644.79	-	-	644.79
	04/19/2005	653.24	8.81	644.43	-	-	644.43
	05/03/2005	653.24	8.77	644.47	-	-	644.47
	06/01/2005	653.24	9.50	643.74	-	-	643.74
	07/05/2005	653.24	10.27	642.97	-	-	642.97
	08/01/2005	653.24	10.32	642.92	-	-	642.92
	09/07/2005	653.24	10.14	643.10	-	-	643.10
	10/05/2005	653.24	9.50	643.74	-	-	643.74
	11/08/2005	653.24	8.57	644.67	-	-	644.67
	12/09/2005	653.24	7.58	645.66	-	-	645.66
	01/06/2006	653.24	7.84	645.40	-	-	645.40
	02/02/2006	653.24	6.63	646.61	-	-	646.61
	03/21/2006	653.24	6.99	646.25	-	-	646.25
	04/06/2006	653.24	7.35	645.89	-	-	645.89
	04/25/2006	653.24	7.31	645.93	-	-	645.93
	05/11/2006	653.24	8.01	645.23	-	-	645.23
	06/12/2006	653.24	8.32	644.92	-	-	644.92
	07/07/2006	653.24	8.58	644.66	-	-	644.66
	10/05/2006	653.24	9.92	643.32	-	-	643.32
	05/23/2007	653.24	7.65	645.59	-	-	645.59
1795-MWS10	09/15/2004	NR	13.38	-	-	-	-
	04/19/2005	NR	12.46	-	-	-	-
	04/25/2006	NR	12.14	-	-	-	-
	10/05/2006	NR	13.61	-	-	-	-
	05/23/2007	NR	11.92	-	-	-	-
1795-MWS11	12/02/2002	648.91	16.19	632.72	-	-	632.72
	01/06/2003	648.91	15.64	633.27	-	-	633.27
	02/07/2003	648.91	15.77	633.14	-	-	633.14
	09/02/2004	648.91	14.79	634.12	-	-	634.12
	09/15/2004	648.91	14.48	634.43	-	-	634.43
	10/04/2004	648.91	14.90	634.01	-	-	634.01
	11/01/2004	648.91	15.26	633.65	-	-	633.65
	12/03/2004	648.91	14.47	634.44	-	-	634.44
	01/04/2005	648.91	13.95	634.96	-	-	634.96
	02/03/2005	648.91	13.45	635.46	-	-	635.46
	03/01/2005	648.91	13.90	635.01	-	-	635.01

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/07/2005	648.91	12.59	636.32	-	-	636.32
	04/19/2005	648.91	12.54	636.37	-	-	636.37
	05/03/2005	648.91	12.91	636.00	-	-	636.00
	06/01/2005	648.91	13.39	635.52	-	-	635.52
	07/05/2005	648.91	14.27	634.64	-	-	634.64
	08/01/2005	648.91	14.68	634.23	-	-	634.23
	09/07/2005	648.91	15.15	633.76	-	-	633.76
	10/05/2005	648.91	14.64	634.27	-	-	634.27
	11/08/2005	648.91	13.20	635.71	-	-	635.71
	12/09/2005	648.91	11.78	637.13	-	-	637.13
	01/06/2006	648.91	12.54	636.37	-	-	636.37
	02/02/2006	648.91	11.17	637.74	-	-	637.74
	03/21/2006	648.91	10.84	638.07	-	-	638.07
	04/06/2006	648.91	11.50	637.41	-	-	637.41
	04/25/2006	648.91	11.81	637.10	-	-	637.10
	05/11/2006	648.91	12.02	636.89	-	-	636.89
	06/12/2006	648.91	12.74	636.17	-	-	636.17
	07/07/2006	648.91	12.97	635.94	-	-	635.94
	10/05/2006	648.91	14.90	634.01	-	-	634.01
	05/23/2007	648.91	11.51	637.40	-	-	637.40
1795-MWSI12	09/15/2004	NR	14.44	-	-	-	-
	04/19/2005	NR	12.09	-	-	-	-
	04/25/2006	NR	11.22	-	-	-	-
	10/05/2006	NR	14.94	-	-	-	-
	05/23/2007	NR	10.78	-	-	-	-
1795-MWD13	12/02/2002	644.91	16.06	628.85	-	-	628.85
	01/06/2003	644.91	15.73	629.18	-	-	629.18
	02/07/2003	644.91	15.70	629.21	-	-	629.21
	09/02/2004	644.91	14.42	630.49	-	-	630.49
	09/15/2004	644.91	14.37	630.54	-	-	630.54
	10/04/2004	644.91	14.65	630.26	-	-	630.26
	11/01/2004	644.91	15.03	629.88	-	-	629.88
	12/03/2004	644.91	15.35	629.56	-	-	629.56
	01/04/2005	644.91	13.94	630.97	-	-	630.97
	02/03/2005	644.91	13.08	631.83	-	-	631.83
	03/01/2005	644.91	13.57	631.34	-	-	631.34
	04/07/2005	644.91	12.54	632.37	-	-	632.37
	04/19/2005	644.91	12.01	632.90	-	-	632.90
	05/03/2005	644.91	12.31	632.60	-	-	632.60
	06/01/2005	644.91	12.75	632.16	-	-	632.16
	07/05/2005	644.91	13.68	631.23	-	-	631.23
	08/01/2005	644.91	14.26	630.65	-	-	630.65
	09/07/2005	644.91	14.99	629.92	-	-	629.92
	10/05/2005	644.91	14.71	630.20	-	-	630.20
	11/08/2005	644.91	13.16	631.75	-	-	631.75
	12/09/2005	644.91	11.61	633.30	-	-	633.30
	01/06/2006	644.91	12.13	632.78	-	-	632.78
	02/02/2006	644.91	10.83	634.08	-	-	634.08
	03/21/2006	644.91	10.20	634.71	-	-	634.71
	04/06/2006	644.91	10.67	634.24	-	-	634.24

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/25/2006	644.91	11.15	633.76	-	-	633.76
	05/11/2006	644.91	11.29	633.62	-	-	633.62
	06/12/2006	644.91	12.12	632.79	-	-	632.79
	07/07/2006	644.91	12.55	632.36	-	-	632.36
	10/05/2006	644.91	14.84	630.07	-	-	630.07
	05/23/2007	644.91	10.70	634.21	-	-	634.21
1795-MWS14	09/15/2004	NR	9.71	-	-	-	-
	04/19/2005	NR	9.18	-	-	-	-
	04/25/2006	NR	9.52	-	-	-	-
	10/05/2006	NR	10.19	-	-	-	-
	05/23/2007	NR	8.61	-	-	-	-
1795-MWS15	12/02/2002	648.23	NR	-	NR	-	-
	01/06/2003	648.23	NR	-	NR	-	-
	02/07/2003	648.23	NR	-	NR	-	-
	09/15/2004	648.23	9.94	638.29	-	-	638.29
	04/19/2005	648.23	8.99	639.24	-	-	639.24
	04/25/2006	648.23	7.91	640.32	-	-	640.32
	10/05/2006	648.23	10.29	637.94	-	-	637.94
	05/23/2007	648.23	8.19	640.04	-	-	640.04
1795-MWS16	09/15/2004	NR	19.19	-	-	-	-
	04/19/2005	NR	16.72	-	-	-	-
	04/25/2006	NR	15.95	-	-	-	-
	10/05/2006	NR	19.46	-	-	-	-
	05/23/2007	NR	15.32	-	-	-	-
1795-MWS17	09/15/2004	NR	25.04	-	-	-	-
	04/19/2005	NR	23.05	-	-	-	-
	04/25/2006	NR	22.30	-	-	-	-
	10/05/2006	NR	25.28	-	-	-	-
	05/23/2007	NR	21.57	-	-	-	-
1795-MWS18	09/15/2004	NR	18.01	-	-	-	-
	04/19/2005	NR	16.23	-	-	-	-
	04/25/2006	NR	16.11	-	-	-	-
	10/05/2006	NR	18.19	-	-	-	-
	05/23/2007	NR	15.56	-	-	-	-
1795-MWS19	09/15/2004	NR	13.75	-	-	-	-
	04/19/2005	NR	11.83	-	-	-	-
	04/25/2006	NR	10.72	-	-	-	-
	10/05/2006	NR	14.62	-	-	-	-
	05/23/2007	NR	10.55	-	-	-	-
1795-MWD20	09/15/2004	NR	20.90	-	-	-	-
	04/19/2005	NR	19.90	-	-	-	-
	04/25/2006	NR	17.78	-	-	-	-
	10/05/2006	NR	21.30	-	-	-	-
	05/23/2007	NR	17.17	-	-	-	-

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1795-MWS21	09/15/2004	NR	15.28	-	-	-	-
	04/19/2005	NR	13.46	-	-	-	-
	04/25/2006	NR	12.34	-	-	-	-
	10/05/2006	NR	16.14	-	-	-	-
	05/23/2007	NR	11.64	-	-	-	-
1795-MW37	09/15/2004	NR	7.31	-	-	-	-
	04/19/2005	NR	6.65	-	-	-	-
	04/25/2006	NR	5.03	-	-	-	-
	10/05/2006	NR	7.68	-	-	-	-
	05/23/2007	NR	5.37	-	-	-	-
1795-MW38	09/15/2004	NR	6.85	-	-	-	-
	04/19/2005	NR	6.45	-	-	-	-
	04/25/2006	NR	4.93	-	-	-	-
	10/05/2006	NR	7.32	-	-	-	-
	05/23/2007	NR	5.12	-	-	-	-
1795-PZ01	12/02/2002	649.60	9.73	639.87	-	-	639.87
	01/06/2003	649.60	9.14	640.46	-	-	640.46
	02/07/2003	649.60	9.58	640.02	-	-	640.02
	09/02/2004	649.60	8.15	641.45	-	-	641.45
	09/15/2004	649.60	7.70	641.90	-	-	641.90
	10/04/2004	649.60	8.52	641.08	-	-	641.08
	11/01/2004	649.60	8.97	640.63	-	-	640.63
	12/03/2004	649.60	8.38	641.22	-	-	641.22
	01/04/2005	649.60	7.11	642.49	-	-	642.49
	02/03/2005	649.60	7.39	642.21	-	-	642.21
	03/01/2005	649.60	7.60	642.00	-	-	642.00
	04/07/2005	649.60	6.55	643.05	-	-	643.05
	04/19/2005	649.60	6.81	642.79	-	-	642.79
	05/03/2005	649.60	6.86	642.74	-	-	642.74
	06/01/2005	649.60	7.55	642.05	-	-	642.05
	07/05/2005	649.60	8.27	641.33	-	-	641.33
	08/01/2005	649.60	8.41	641.19	-	-	641.19
	09/07/2005	649.60	8.37	641.23	-	-	641.23
	10/05/2005	649.60	7.76	641.84	-	-	641.84
	11/08/2005	649.60	6.62	642.98	-	-	642.98
	12/09/2005	649.60	5.62	643.98	-	-	643.98
	01/06/2006	649.60	5.83	643.77	-	-	643.77
	02/02/2006	649.60	4.69	644.91	-	-	644.91
03/21/2006	649.60	5.00	644.60	-	-	644.60	
04/06/2006	649.60	5.44	644.16	-	-	644.16	
04/25/2006	649.60	5.40	644.20	-	-	644.20	
05/11/2006	649.60	6.08	643.52	-	-	643.52	
06/12/2006	649.60	6.48	643.12	-	-	643.12	
07/07/2006	649.60	6.68	642.92	-	-	642.92	
10/05/2006	649.60	7.98	641.62	-	-	641.62	
05/23/2007	649.60	5.68	643.92	-	-	643.92	
1795-PZ02	12/02/2002	648.88	10.77	638.11	-	-	638.11
	01/06/2003	648.88	10.20	638.68	-	-	638.68

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/07/2003	648.88	10.61	638.27	-	-	638.27
	09/02/2004	648.88	9.35	639.53	-	-	639.53
	09/15/2004	648.88	9.88	639.00	-	-	639.00
	10/04/2004	648.88	9.68	639.20	-	-	639.20
	11/01/2004	648.88	10.13	638.75	-	-	638.75
	12/03/2004	648.88	9.70	639.18	-	-	639.18
	01/04/2005	648.88	8.50	640.38	-	-	640.38
	02/03/2005	648.88	8.57	640.31	-	-	640.31
	03/01/2005	648.88	8.81	640.07	-	-	640.07
	04/07/2005	648.88	7.32	641.56	-	-	641.56
	04/19/2005	648.88	7.87	641.01	-	-	641.01
	05/03/2005	648.88	8.03	640.85	-	-	640.85
	06/01/2005	648.88	8.67	640.21	-	-	640.21
	07/05/2005	648.88	9.38	639.50	-	-	639.50
	08/01/2005	648.88	9.53	639.35	-	-	639.35
	09/07/2005	648.88	9.53	639.35	-	-	639.35
	10/05/2005	648.88	8.93	639.95	-	-	639.95
	11/08/2005	648.88	7.82	641.06	-	-	641.06
	12/09/2005	648.88	6.77	642.11	-	-	642.11
	01/06/2006	648.88	7.19	641.69	-	-	641.69
	02/02/2006	648.88	5.97	642.91	-	-	642.91
	03/21/2006	648.88	6.23	642.65	-	-	642.65
	04/06/2006	648.88	6.72	642.16	-	-	642.16
	04/25/2006	648.88	6.70	642.18	-	-	642.18
	05/11/2006	648.88	7.30	641.58	-	-	641.58
	06/12/2006	648.88	7.69	641.19	-	-	641.19
	07/07/2006	648.88	7.86	641.02	-	-	641.02
	10/05/2006	648.88	9.29	639.59	-	-	639.59
	05/23/2007	648.88	6.90	641.98	-	-	641.98
1795-PZ03	12/02/2002	653.33	17.68	635.65	-	-	635.65
	01/06/2003	653.33	16.86	636.47	-	-	636.47
	02/07/2003	653.33	17.17	636.16	-	-	636.16
	09/02/2004	653.33	15.92	637.41	-	-	637.41
	09/15/2004	653.33	15.49	637.84	-	-	637.84
	10/04/2004	653.33	16.03	637.30	-	-	637.30
	11/01/2004	653.33	16.44	636.89	-	-	636.89
	12/03/2004	653.33	16.30	637.03	-	-	637.03
	01/04/2005	653.33	14.72	638.61	-	-	638.61
	02/03/2005	653.33	14.45	638.88	-	-	638.88
	03/01/2005	653.33	14.81	638.52	-	-	638.52
	04/07/2005	653.33	13.56	639.77	-	-	639.77
	04/19/2005	653.33	13.71	639.62	-	-	639.62
	05/03/2005	653.33	14.01	639.32	-	-	639.32
	06/01/2005	653.33	14.58	638.75	-	-	638.75
	07/05/2005	653.33	15.52	637.81	-	-	637.81
	08/01/2005	653.33	15.89	637.44	-	-	637.44
	09/07/2005	653.33	16.21	637.12	-	-	637.12
	10/05/2005	653.33	15.55	637.78	-	-	637.78
	11/08/2005	653.33	14.03	639.30	-	-	639.30
	12/09/2005	653.33	12.58	640.75	-	-	640.75
	01/06/2006	653.33	13.38	639.95	-	-	639.95

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/02/2006	653.33	11.81	641.52	-	-	641.52
	03/21/2006	653.33	11.74	641.59	-	-	641.59
	04/06/2006	653.33	12.46	640.87	-	-	640.87
	04/25/2006	653.33	12.59	640.74	-	-	640.74
	05/11/2006	653.33	13.03	640.30	-	-	640.30
	06/12/2006	653.33	13.66	639.67	-	-	639.67
	07/07/2006	653.33	13.82	639.51	-	-	639.51
	10/05/2006	653.33	15.87	637.46	-	-	637.46
	05/23/2007	653.33	12.64	640.69	-	-	640.69
1795-PZ04	12/02/2002	647.23	13.02	634.21	-	-	634.21
	01/06/2003	647.23	12.48	634.75	-	-	634.75
	02/07/2003	647.23	12.68	634.55	-	-	634.55
	09/02/2004	647.23	11.52	635.71	-	-	635.71
	09/15/2004	647.23	11.12	636.11	-	-	636.11
	10/04/2004	647.23	11.60	635.63	-	-	635.63
	11/01/2004	647.23	11.95	635.28	-	-	635.28
	12/03/2004	647.23	11.82	635.41	-	-	635.41
	01/04/2005	647.23	10.38	636.85	-	-	636.85
	02/03/2005	647.23	9.89	637.34	-	-	637.34
	03/01/2005	647.23	10.40	636.83	-	-	636.83
	04/07/2005	647.23	8.87	638.36	-	-	638.36
	04/19/2005	647.23	9.00	638.23	-	-	638.23
	05/03/2005	647.23	9.33	637.90	-	-	637.90
	06/01/2005	647.23	9.96	637.27	-	-	637.27
	07/05/2005	647.23	11.01	636.22	-	-	636.22
	08/01/2005	647.23	11.44	635.79	-	-	635.79
	09/07/2005	647.23	11.91	635.32	-	-	635.32
	10/05/2005	647.23	11.29	635.94	-	-	635.94
	11/08/2005	647.23	9.64	637.59	-	-	637.59
	12/09/2005	647.23	8.13	639.10	-	-	639.10
	01/06/2006	647.23	8.89	638.34	-	-	638.34
	02/02/2006	647.23	7.34	639.89	-	-	639.89
	03/21/2006	647.23	7.09	640.14	-	-	640.14
	04/06/2006	647.23	7.73	639.50	-	-	639.50
	04/25/2006	647.23	7.89	639.34	-	-	639.34
	05/11/2006	647.23	8.36	638.87	-	-	638.87
	06/12/2006	647.23	9.00	638.23	-	-	638.23
	07/07/2006	647.23	9.32	637.91	-	-	637.91
	10/05/2006	647.23	11.47	635.76	-	-	635.76
	05/23/2007	647.23	7.92	639.31	-	-	639.31
1795-PZ05	12/02/2002	650.44	13.02	637.42	-	-	637.42
	01/06/2003	650.44	12.35	638.09	-	-	638.09
	02/07/2003	650.44	12.76	637.68	-	-	637.68
	09/02/2004	650.44	11.53	638.91	-	-	638.91
	09/15/2004	650.44	11.02	639.42	-	-	639.42
	10/04/2004	650.44	11.68	638.76	-	-	638.76
	11/01/2004	650.44	12.11	638.33	-	-	638.33
	12/03/2004	650.44	11.89	638.55	-	-	638.55
	01/04/2005	650.44	10.40	640.04	-	-	640.04
	02/03/2005	650.44	10.30	640.14	-	-	640.14

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/01/2005	650.44	10.61	639.83	-	-	639.83
	04/07/2005	650.44	9.39	641.05	-	-	641.05
	04/19/2005	650.44	9.64	640.80	-	-	640.80
	05/03/2005	650.44	9.82	640.62	-	-	640.62
	06/01/2005	650.44	10.44	640.00	-	-	640.00
	07/05/2005	650.44	11.28	639.16	-	-	639.16
	08/01/2005	650.44	11.56	638.88	-	-	638.88
	09/07/2005	650.44	11.72	638.72	-	-	638.72
	10/05/2005	650.44	11.08	639.36	-	-	639.36
	11/08/2005	650.44	9.74	640.70	-	-	640.70
	12/09/2005	650.44	8.48	641.96	-	-	641.96
	01/06/2006	650.44	9.11	641.33	-	-	641.33
	02/02/2006	650.44	7.66	642.78	-	-	642.78
	03/21/2006	650.44	7.77	642.67	-	-	642.67
	04/06/2006	650.44	8.40	642.04	-	-	642.04
	04/25/2006	650.44	8.45	641.99	-	-	641.99
	05/11/2006	650.44	8.96	641.48	-	-	641.48
	06/12/2006	650.44	9.47	640.97	-	-	640.97
	07/07/2006	650.44	9.65	640.79	-	-	640.79
	10/05/2006	650.44	11.45	638.99	-	-	638.99
	05/23/2007	650.44	8.56	641.88	-	-	641.88
1795-PZ06	12/02/2002	651.58	13.90	637.68	-	-	637.68
	01/06/2003	651.58	13.27	638.31	-	-	638.31
	02/07/2003	651.58	13.63	637.95	-	-	637.95
	09/02/2004	651.58	12.30	639.28	-	-	639.28
	09/15/2004	651.58	11.83	639.75	-	-	639.75
	10/04/2004	651.58	12.45	639.13	-	-	639.13
	11/01/2004	651.58	12.88	638.70	-	-	638.70
	12/03/2004	651.58	12.64	638.94	-	-	638.94
	01/04/2005	651.58	10.94	640.64	-	-	640.64
	02/03/2005	651.58	10.90	640.68	-	-	640.68
	03/01/2005	651.58	11.23	640.35	-	-	640.35
	04/07/2005	651.58	10.06	641.52	-	-	641.52
	04/19/2005	651.58	10.25	641.33	-	-	641.33
	05/03/2005	651.58	10.46	641.12	-	-	641.12
	06/01/2005	651.58	11.08	640.50	-	-	640.50
	07/05/2005	651.58	12.01	639.57	-	-	639.57
	08/01/2005	651.58	12.35	639.23	-	-	639.23
	09/07/2005	651.58	12.54	639.04	-	-	639.04
	10/05/2005	651.58	11.85	639.73	-	-	639.73
	11/08/2005	651.58	10.45	641.13	-	-	641.13
	12/09/2005	651.58	9.10	642.48	-	-	642.48
	01/06/2006	651.58	9.77	641.81	-	-	641.81
	02/02/2006	651.58	8.20	643.38	-	-	643.38
	03/21/2006	651.58	8.29	643.29	-	-	643.29
	04/06/2006	651.58	8.91	642.67	-	-	642.67
	04/25/2006	651.58	8.99	642.59	-	-	642.59
	05/11/2006	651.58	9.53	642.05	-	-	642.05
	06/12/2006	651.58	10.06	641.52	-	-	641.52
	07/07/2006	651.58	10.28	641.30	-	-	641.30
	10/05/2006	651.58	12.26	639.32	-	-	639.32

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/23/2007	651.58	9.13	642.45	-	-	642.45
1795-PZ07	12/02/2002	650.10	9.48	640.62	-	-	640.62
	01/06/2003	650.10	8.83	641.27	-	-	641.27
	02/07/2003	650.10	9.36	640.74	-	-	640.74
	09/02/2004	650.10	7.88	642.22	-	-	642.22
	09/15/2004	650.10	7.29	642.81	-	-	642.81
	10/04/2004	650.10	8.21	641.89	-	-	641.89
	11/01/2004	650.10	8.68	641.42	-	-	641.42
	12/03/2004	650.10	7.80	642.30	-	-	642.30
	01/04/2005	650.10	6.36	643.74	-	-	643.74
	02/03/2005	650.10	6.89	643.21	-	-	643.21
	03/01/2005	650.10	7.13	642.97	-	-	642.97
	04/07/2005	650.10	6.11	643.99	-	-	643.99
	04/19/2005	650.10	6.42	643.68	-	-	643.68
	05/03/2005	650.10	6.39	643.71	-	-	643.71
	06/01/2005	650.10	7.17	642.93	-	-	642.93
	07/05/2005	650.10	8.01	642.09	-	-	642.09
	08/01/2005	650.10	8.18	641.92	-	-	641.92
	09/07/2005	650.10	8.01	642.09	-	-	642.09
	10/05/2005	650.10	7.34	642.76	-	-	642.76
	11/08/2005	650.10	6.32	643.78	-	-	643.78
	12/09/2005	650.10	5.21	644.89	-	-	644.89
	01/06/2006	650.10	5.57	644.53	-	-	644.53
	02/02/2006	650.10	4.29	645.81	-	-	645.81
	03/21/2006	650.10	4.63	645.47	-	-	645.47
	04/06/2006	650.10	4.98	645.12	-	-	645.12
	04/25/2006	650.10	4.96	645.14	-	-	645.14
05/11/2006	650.10	5.65	644.45	-	-	644.45	
06/12/2006	650.10	6.02	644.08	-	-	644.08	
07/07/2006	650.10	6.29	643.81	-	-	643.81	
10/05/2006	650.10	7.76	642.34	-	-	642.34	
05/23/2007	650.10	5.74	644.36	-	-	644.36	
1795-PZ08	12/02/2002	648.51	11.65	636.86	-	-	636.86
	01/06/2003	648.51	11.08	637.43	-	-	637.43
	02/07/2003	648.51	11.38	637.13	-	-	637.13
	09/02/2004	648.51	9.98	638.53	-	-	638.53
	09/15/2004	648.51	9.52	638.99	-	-	638.99
	10/04/2004	648.51	10.08	638.43	-	-	638.43
	11/01/2004	648.51	10.50	638.01	-	-	638.01
	12/03/2004	648.51	10.25	638.26	-	-	638.26
	01/04/2005	648.51	8.32	640.19	-	-	640.19
	02/03/2005	648.51	8.32	640.19	-	-	640.19
	03/01/2005	648.51	8.71	639.80	-	-	639.80
	04/07/2005	648.51	7.46	641.05	-	-	641.05
	04/19/2005	648.51	7.65	640.86	7.64	0.01	640.87
	05/03/2005	648.51	7.86	640.65	-	-	640.65
06/01/2005	648.51	8.50	640.01	-	-	640.01	
07/05/2005	648.51	9.56	638.95	-	-	638.95	
08/01/2005	648.51	10.08	638.43	-	-	638.43	
09/07/2005	648.51	10.29	638.22	-	-	638.22	

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/05/2005	648.51	9.56	638.95	-	-	638.95
	11/08/2005	648.51	8.02	640.49	-	-	640.49
	12/09/2005	648.51	6.49	642.02	-	-	642.02
	01/06/2006	648.51	7.27	641.24	-	-	641.24
	02/02/2006	648.51	5.54	642.97	-	-	642.97
	03/21/2006	648.51	5.53	642.98	-	-	642.98
	04/06/2006	648.51	6.14	642.37	-	-	642.37
	04/25/2006	648.51	6.25	642.26	-	-	642.26
	05/11/2006	648.51	6.85	641.66	-	-	641.66
	06/12/2006	648.51	7.52	640.99	-	-	640.99
	07/07/2006	648.51	7.77	640.74	-	-	640.74
	10/05/2006	648.51	9.96	638.55	-	-	638.55
	05/23/2007	648.51	6.47	642.04	-	-	642.04
	09/19/2008	648.51	NR	-	NR	-	-
	10/23/2008	648.51	8.45	640.06	-	-	640.06
	12/30/2008	648.51	4.58	643.93	-	-	643.93
	01/28/2009	648.51	6.12	642.39	-	-	642.39
	02/24/2009	648.51	6.05	642.46	-	-	642.46
	03/27/2009	648.51	5.61	642.90	-	-	642.90
	04/28/2009	648.51	5.64	642.87	-	-	642.87
	05/20/2009	648.51	5.58	642.93	-	-	642.93
	06/25/2009	648.51	6.28	642.23	-	-	642.23
	07/20/2009	648.51	7.08	641.43	-	-	641.43
	08/25/2009	648.51	8.27	640.24	-	-	640.24
	09/15/2009	648.51	9.45	639.06	-	-	639.06
	09/22/2009	648.51	9.85	638.66	-	-	638.66
	10/14/2009	648.51	10.28	638.23	-	-	638.23
	11/10/2009	648.51	10.31	638.20	-	-	638.20
	12/14/2009	648.51	10.98	637.53	-	-	637.53
	01/11/2010	648.51	11.13	637.38	-	-	637.38
	02/10/2010	648.51	10.69	637.82	-	-	637.82
	03/10/2010	648.51	10.58	637.93	-	-	637.93
	04/14/2010	648.51	10.42	638.09	-	-	638.09
	05/12/2010	648.51	11.36	637.15	-	-	637.15
	06/17/2010	648.51	11.94	636.57	-	-	636.57
	07/14/2010	648.51	11.78	636.73	-	-	636.73
	08/09/2010	648.51	12.02	636.49	-	-	636.49
	09/16/2010	648.51	11.50	637.01	-	-	637.01
	10/13/2010	648.51	10.18	638.33	-	-	638.33
	11/16/2010	648.51	11.03	637.48	-	-	637.48
	12/16/2010	648.51	10.07	638.44	-	-	638.44
	01/13/2011	648.51	10.03	638.48	-	-	638.48
	03/14/2011	648.51	8.88	639.63	-	-	639.63
	04/12/2011	648.51	9.45	639.06	-	-	639.06
	05/19/2011	648.51	8.04	640.47	-	-	640.47
	06/20/2011	648.51	9.08	639.43	-	-	639.43
	07/13/2011	648.51	9.61	638.90	-	-	638.90
	08/11/2011	648.51	10.71	637.80	-	-	637.80
	09/30/2011	648.51	10.64	637.87	-	-	637.87
	10/19/2011	648.51	11.32	637.19	-	-	637.19
	11/17/2011	648.51	11.40	637.11	-	-	637.11
	12/07/2011	648.51	12.02	636.49	-	-	636.49

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2012	648.51	11.30	637.21	-	-	637.21
1795-PZ09	12/02/2002	652.82	17.53	635.29	17.50	0.03	635.31
	01/06/2003	652.82	16.95	635.87	16.94	0.01	635.88
	02/07/2003	652.82	17.15	635.67	17.14	0.01	635.68
	09/02/2004	652.82	15.85	636.97	-	-	636.97
	09/15/2004	652.82	15.47	637.35	-	-	637.35
	10/04/2004	652.82	15.89	636.93	-	-	636.93
	11/01/2004	652.82	16.30	636.52	-	-	636.52
	12/03/2004	652.82	16.27	636.55	-	-	636.55
	01/04/2005	652.82	14.48	638.34	-	-	638.34
	02/03/2005	652.82	14.07	638.75	-	-	638.75
	03/01/2005	652.82	14.50	638.32	-	-	638.32
	04/07/2005	652.82	13.17	639.65	-	-	639.65
	04/19/2005	652.82	13.26	639.56	-	-	639.56
	05/03/2005	652.82	13.60	639.22	-	-	639.22
	06/01/2005	652.82	14.20	638.62	-	-	638.62
	07/05/2005	652.82	15.28	637.54	-	-	637.54
	08/01/2005	652.82	15.79	637.03	-	-	637.03
	09/07/2005	652.82	16.25	636.57	-	-	636.57
	10/05/2005	652.82	15.58	637.24	-	-	637.24
	11/08/2005	652.82	13.84	638.98	-	-	638.98
	12/09/2005	652.82	12.22	640.60	-	-	640.60
	01/06/2006	652.82	13.07	639.75	-	-	639.75
	02/02/2006	652.82	11.42	641.40	-	-	641.40
	03/21/2006	652.82	11.17	641.65	-	-	641.65
	04/06/2006	652.82	11.88	640.94	-	-	640.94
	04/25/2006	652.82	12.11	640.71	-	-	640.71
	05/11/2006	652.82	12.55	640.27	-	-	640.27
	06/12/2006	652.82	13.27	639.55	-	-	639.55
	07/07/2006	652.82	13.51	639.31	-	-	639.31
	10/05/2006	652.82	15.87	636.95	-	-	636.95
	05/23/2007	652.82	12.11	640.71	-	-	640.71
	09/19/2008	652.82	13.90	638.92	-	-	638.92
	10/23/2008	652.82	14.35	638.47	-	-	638.47
	12/30/2008	652.82	10.42	642.40	-	-	642.40
	01/28/2009	652.82	11.92	640.90	-	-	640.90
	02/24/2009	652.82	11.85	640.97	-	-	640.97
	03/27/2009	652.82	11.35	641.47	-	-	641.47
	04/28/2009	652.82	11.32	641.50	-	-	641.50
	05/20/2009	652.82	11.31	641.51	-	-	641.51
	06/25/2009	652.82	11.96	640.86	-	-	640.86
	07/20/2009	652.82	12.82	640.00	-	-	640.00
	08/25/2009	652.82	13.95	638.87	-	-	638.87
	09/15/2009	652.82	15.05	637.77	-	-	637.77
	09/22/2009	652.82	15.39	637.43	-	-	637.43
	10/14/2009	652.82	15.95	636.87	-	-	636.87
	11/10/2009	652.82	16.02	636.80	-	-	636.80
	12/14/2009	652.82	16.63	636.19	-	-	636.19
	01/11/2010	652.82	16.77	636.05	-	-	636.05
	02/10/2010	652.82	16.37	636.45	-	-	636.45
	03/10/2010	652.82	16.28	636.54	-	-	636.54

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/14/2010	652.82	16.06	636.76	-	-	636.76
	05/12/2010	652.82	16.98	635.84	-	-	635.84
	06/17/2010	652.82	17.56	635.26	-	-	635.26
	07/14/2010	652.82	17.46	635.36	-	-	635.36
	08/09/2010	652.82	17.73	635.09	-	-	635.09
	09/16/2010	652.82	17.33	635.49	-	-	635.49
	10/13/2010	652.82	16.14	636.68	-	-	636.68
	11/16/2010	652.82	16.69	636.13	-	-	636.13
	12/16/2010	652.82	15.97	636.85	-	-	636.85
	01/13/2011	652.82	16.41	636.41	-	-	636.41
	03/14/2011	652.82	14.51	638.31	-	-	638.31
	04/12/2011	652.82	15.07	637.75	-	-	637.75
	05/19/2011	652.82	13.60	639.22	-	-	639.22
	06/20/2011	652.82	14.52	638.30	-	-	638.30
	07/13/2011	652.82	15.29	637.53	-	-	637.53
	08/11/2011	652.82	16.30	636.52	-	-	636.52
	09/30/2011	652.82	16.04	636.78	-	-	636.78
	10/19/2011	652.82	17.11	635.71	-	-	635.71
	11/17/2011	652.82	17.31	635.51	-	-	635.51
	12/07/2011	652.82	17.83	634.99	-	-	634.99
	01/09/2012	652.82	17.03	635.79	-	-	635.79
1795-PZ10	12/02/2002	648.25	9.96	638.29	-	-	638.29
	01/06/2003	648.25	9.33	638.92	-	-	638.92
	02/07/2003	648.25	9.75	638.50	-	-	638.50
	09/02/2004	648.25	8.23	640.02	-	-	640.02
	09/15/2004	648.25	7.65	640.60	-	-	640.60
	10/04/2004	648.25	8.39	639.86	-	-	639.86
	11/01/2004	648.25	8.86	639.39	-	-	639.39
	12/03/2004	648.25	8.37	639.88	-	-	639.88
	01/04/2005	648.25	6.35	641.90	-	-	641.90
	02/03/2005	648.25	6.75	641.50	-	-	641.50
	03/01/2005	648.25	7.08	641.17	-	-	641.17
	04/07/2005	648.25	6.02	642.23	-	-	642.23
	04/19/2005	648.25	6.25	642.00	-	-	642.00
	05/03/2005	648.25	6.35	641.90	-	-	641.90
	06/01/2005	648.25	7.01	641.24	-	-	641.24
	07/05/2005	648.25	8.03	640.22	-	-	640.22
	08/01/2005	648.25	8.37	639.88	-	-	639.88
	09/07/2005	648.25	8.43	639.82	-	-	639.82
	10/05/2005	648.25	7.70	640.55	-	-	640.55
	11/08/2005	648.25	6.39	641.86	-	-	641.86
	12/09/2005	648.25	5.05	643.20	-	-	643.20
	01/06/2006	648.25	5.65	642.60	-	-	642.60
	02/02/2006	648.25	4.09	644.16	-	-	644.16
	03/21/2006	648.25	4.27	643.98	-	-	643.98
	04/06/2006	648.25	4.77	643.48	-	-	643.48
	04/25/2006	648.25	4.78	643.47	-	-	643.47
	05/11/2006	648.25	5.44	642.81	-	-	642.81
	06/12/2006	648.25	5.96	642.29	-	-	642.29
	07/07/2006	648.25	6.23	642.02	-	-	642.02
	10/05/2006	648.25	8.12	640.13	-	-	640.13

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/23/2007	648.25	5.17	643.08	-	-	643.08
1795-PZ11	12/02/2002	650.85	NR	-	NR	-	-
	01/06/2003	650.85	NR	-	NR	-	-
	02/07/2003	650.85	NR	-	NR	-	-
1795-PZ12	12/02/2002	648.64	NR	-	NR	-	-
	01/06/2003	648.64	NR	-	NR	-	-
	02/07/2003	648.64	NR	-	NR	-	-
	09/02/2004	648.64	4.33	644.31	-	-	644.31
	09/15/2004	648.64	4.92	643.72	-	-	643.72
	10/04/2004	648.64	4.46	644.18	-	-	644.18
	11/01/2004	648.64	5.27	643.37	-	-	643.37
	12/03/2004	648.64	4.35	644.29	-	-	644.29
	01/04/2005	648.64	3.46	645.18	-	-	645.18
	02/03/2005	648.64	NR	-	NR	-	-
	03/01/2005	648.64	NR	-	NR	-	-
	04/07/2005	648.64	3.02	645.62	-	-	645.62
	04/19/2005	648.64	4.36	644.28	-	-	644.28
	05/03/2005	648.64	3.34	645.30	-	-	645.30
	06/01/2005	648.64	4.02	644.62	-	-	644.62
	07/05/2005	648.64	5.67	642.97	-	-	642.97
	08/01/2005	648.64	4.67	643.97	-	-	643.97
	09/07/2005	648.64	4.57	644.07	-	-	644.07
	10/05/2005	648.64	3.95	644.69	-	-	644.69
	11/08/2005	648.64	3.05	645.59	-	-	645.59
	12/09/2005	648.64	2.22	646.42	-	-	646.42
	01/06/2006	648.64	NR	-	NR	-	-
	02/02/2006	648.64	1.04	647.60	-	-	647.60
	03/21/2006	648.64	1.56	647.08	-	-	647.08
04/06/2006	648.64	1.95	646.69	-	-	646.69	
04/25/2006	648.64	1.90	646.74	-	-	646.74	
05/11/2006	648.64	2.58	646.06	-	-	646.06	
06/12/2006	648.64	2.86	645.78	-	-	645.78	
07/07/2006	648.64	3.08	645.56	-	-	645.56	
10/05/2006	648.64	4.33	644.31	-	-	644.31	
05/23/2007	648.64	3.21	645.43	-	-	645.43	
1795-PZ13	12/02/2002	648.64	NR	-	NR	-	-
	01/06/2003	648.64	NR	-	NR	-	-
	02/07/2003	648.64	NR	-	NR	-	-
	09/02/2004	648.64	4.08	644.56	-	-	644.56
	09/15/2004	648.64	4.52	644.12	-	-	644.12
	10/04/2004	648.64	4.05	644.59	-	-	644.59
	11/01/2004	648.64	4.91	643.73	-	-	643.73
	12/03/2004	648.64	4.39	644.25	-	-	644.25
	01/04/2005	648.64	3.35	645.29	-	-	645.29
	02/03/2005	648.64	NR	-	NR	-	-
	03/01/2005	648.64	NR	-	NR	-	-
	04/07/2005	648.64	2.61	646.03	-	-	646.03
	04/19/2005	648.64	2.86	645.78	-	-	645.78
	05/03/2005	648.64	2.94	645.70	-	-	645.70

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/01/2005	648.64	3.61	645.03	-	-	645.03
	07/05/2005	648.64	5.13	643.51	-	-	643.51
	08/01/2005	648.64	4.29	644.35	-	-	644.35
	09/07/2005	648.64	4.27	644.37	-	-	644.37
	10/05/2005	648.64	3.70	644.94	-	-	644.94
	11/08/2005	648.64	2.68	645.96	-	-	645.96
	12/09/2005	648.64	1.83	646.81	-	-	646.81
	01/06/2006	648.64	NR	-	NR	-	-
	02/02/2006	648.64	1.29	647.35	-	-	647.35
	03/21/2006	648.64	1.36	647.28	-	-	647.28
	04/06/2006	648.64	1.81	646.83	-	-	646.83
	04/25/2006	648.64	1.71	646.93	-	-	646.93
	05/11/2006	648.64	2.36	646.28	-	-	646.28
	06/12/2006	648.64	2.66	645.98	-	-	645.98
	07/07/2006	648.64	2.84	645.80	-	-	645.80
	10/05/2006	648.64	4.00	644.64	-	-	644.64
	05/23/2007	648.64	2.83	645.81	-	-	645.81
1795-PZ14	12/02/2002	646.15	11.53	634.62	-	-	634.62
	01/06/2003	646.15	10.97	635.18	-	-	635.18
	02/07/2003	646.15	11.16	634.99	-	-	634.99
	09/02/2004	646.15	10.31	635.84	-	-	635.84
	09/15/2004	646.15	9.96	636.19	-	-	636.19
	10/04/2004	646.15	10.68	635.47	-	-	635.47
	11/01/2004	646.15	11.04	635.11	-	-	635.11
	12/03/2004	646.15	10.63	635.52	-	-	635.52
	01/04/2005	646.15	9.65	636.50	-	-	636.50
	02/03/2005	646.15	9.67	636.48	-	-	636.48
	03/01/2005	646.15	9.97	636.18	-	-	636.18
	04/07/2005	646.15	8.93	637.22	-	-	637.22
	04/19/2005	646.15	8.95	637.20	-	-	637.20
	05/03/2005	646.15	9.13	637.02	-	-	637.02
	06/01/2005	646.15	9.69	636.46	-	-	636.46
	07/05/2005	646.15	10.46	635.69	-	-	635.69
	08/01/2005	646.15	10.52	635.63	-	-	635.63
	09/07/2005	646.15	10.57	635.58	-	-	635.58
	10/05/2005	646.15	10.08	636.07	-	-	636.07
	11/08/2005	646.15	9.00	637.15	-	-	637.15
	12/09/2005	646.15	NR	-	NR	-	-
	01/06/2006	646.15	8.58	637.57	-	-	637.57
	02/02/2006	646.15	7.47	638.68	-	-	638.68
	03/21/2006	646.15	7.62	638.53	-	-	638.53
	04/06/2006	646.15	8.14	638.01	-	-	638.01
	04/25/2006	646.15	8.21	637.94	-	-	637.94
	05/11/2006	646.15	8.64	637.51	-	-	637.51
	06/12/2006	646.15	9.03	637.12	-	-	637.12
	07/07/2006	646.15	9.19	636.96	-	-	636.96
	10/05/2006	646.15	10.17	635.98	-	-	635.98
	05/23/2007	646.15	8.21	637.94	-	-	637.94
1795-PZ15	12/02/2002	651.83	16.63	635.20	-	-	635.20
	01/06/2003	651.83	16.03	635.80	-	-	635.80

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/07/2003	651.83	16.27	635.56	-	-	635.56
	09/02/2004	651.83	15.07	636.76	-	-	636.76
	09/15/2004	651.83	NR	-	NR	-	-
	10/04/2004	651.83	15.16	636.67	-	-	636.67
	11/01/2004	651.83	15.54	636.29	-	-	636.29
	12/03/2004	651.83	15.47	636.36	-	-	636.36
	01/04/2005	651.83	13.85	637.98	-	-	637.98
	02/03/2005	651.83	13.47	638.36	-	-	638.36
	03/01/2005	651.83	13.83	638.00	-	-	638.00
	04/07/2005	651.83	12.56	639.27	-	-	639.27
	04/19/2005	651.83	NR	-	NR	-	-
	05/03/2005	651.83	13.02	638.81	-	-	638.81
	06/01/2005	651.83	13.57	638.26	-	-	638.26
	07/05/2005	651.83	14.57	637.26	-	-	637.26
	08/01/2005	651.83	15.01	636.82	-	-	636.82
	09/07/2005	651.83	15.42	636.41	-	-	636.41
	10/05/2005	651.83	14.76	637.07	-	-	637.07
	11/08/2005	651.83	13.14	638.69	-	-	638.69
	12/09/2005	651.83	11.63	640.20	-	-	640.20
	01/06/2006	651.83	12.44	639.39	-	-	639.39
	02/02/2006	651.83	10.84	640.99	-	-	640.99
	03/21/2006	651.83	10.65	641.18	-	-	641.18
	04/06/2006	651.83	11.39	640.44	-	-	640.44
	04/25/2006	651.83	NR	-	NR	-	-
	05/11/2006	651.83	11.96	639.87	-	-	639.87
	06/12/2006	651.83	12.65	639.18	-	-	639.18
	07/07/2006	651.83	12.87	638.96	-	-	638.96
	10/05/2006	651.83	NR	-	NR	-	-
	05/23/2007	651.83	11.55	640.28	-	-	640.28
1795-PZ16	12/02/2002	654.78	18.35	636.43	-	-	636.43
	01/06/2003	654.78	17.74	637.04	-	-	637.04
	02/07/2003	654.78	18.04	636.74	-	-	636.74
	09/02/2004	654.78	16.73	638.05	-	-	638.05
	10/04/2004	654.78	16.82	637.96	-	-	637.96
	11/01/2004	654.78	17.23	637.55	-	-	637.55
	12/03/2004	654.78	17.13	637.65	-	-	637.65
	01/04/2005	654.78	15.42	639.36	-	-	639.36
	02/03/2005	654.78	15.16	639.62	-	-	639.62
	03/01/2005	654.78	15.54	639.24	-	-	639.24
	04/07/2005	654.78	14.31	640.47	-	-	640.47
	05/03/2005	654.78	14.73	640.05	-	-	640.05
	06/01/2005	654.78	15.32	639.46	-	-	639.46
	07/05/2005	654.78	16.30	638.48	-	-	638.48
	08/01/2005	654.78	16.69	638.09	-	-	638.09
	09/07/2005	654.78	17.04	637.74	-	-	637.74
	10/05/2005	654.78	16.34	638.44	-	-	638.44
	11/08/2005	654.78	14.81	639.97	-	-	639.97
	12/09/2005	654.78	13.32	641.46	-	-	641.46
	01/06/2006	654.78	14.12	640.66	-	-	640.66
	02/02/2006	654.78	12.47	642.31	-	-	642.31
	03/21/2006	654.78	12.41	642.37	-	-	642.37

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/06/2006	654.78	13.12	641.66	-	-	641.66
	05/11/2006	654.78	13.72	641.06	-	-	641.06
	06/12/2006	654.78	14.38	640.40	-	-	640.40
	07/07/2006	654.78	14.56	640.22	-	-	640.22
1795-PZ17	12/02/2002	648.42	13.29	635.13	-	-	635.13
	01/06/2003	648.42	12.85	635.57	-	-	635.57
	02/07/2003	648.42	12.94	635.48	-	-	635.48
	09/02/2004	648.42	11.84	636.58	11.80	0.04	636.61
	10/04/2004	648.42	11.99	636.43	11.87	0.12	636.52
	11/01/2004	648.42	12.29	636.13	-	-	636.13
	12/03/2004	648.42	12.30	636.12	-	-	636.12
	01/04/2005	648.42	10.64	637.78	-	-	637.78
	02/03/2005	648.42	10.15	638.27	-	-	638.27
	03/01/2005	648.42	10.53	637.89	-	-	637.89
	04/07/2005	648.42	9.21	639.21	-	-	639.21
	05/03/2005	648.42	9.64	638.78	-	-	638.78
	06/01/2005	648.42	10.22	638.20	-	-	638.20
	07/05/2005	648.42	11.26	637.16	-	-	637.16
	08/01/2005	648.42	11.72	636.70	-	-	636.70
	09/07/2005	648.42	12.25	636.17	-	-	636.17
	10/05/2005	648.42	11.59	636.83	-	-	636.83
	11/08/2005	648.42	9.89	638.53	-	-	638.53
	12/09/2005	648.42	8.31	640.11	-	-	640.11
	01/06/2006	648.42	9.16	639.26	-	-	639.26
	02/02/2006	648.42	7.49	640.93	-	-	640.93
	03/21/2006	648.42	7.28	641.14	-	-	641.14
	04/06/2006	648.42	7.97	640.45	-	-	640.45
	05/11/2006	648.42	8.62	639.80	-	-	639.80
	06/12/2006	648.42	9.27	639.15	-	-	639.15
	07/07/2006	648.42	9.51	638.91	-	-	638.91
	09/19/2008	648.42	9.78	638.64	-	-	638.64
	10/23/2008	648.42	10.21	638.21	-	-	638.21
	12/30/2008	648.42	6.46	641.96	-	-	641.96
	01/28/2009	648.42	7.87	640.55	-	-	640.55
	02/24/2009	648.42	7.92	640.50	-	-	640.50
	03/27/2009	648.42	7.45	640.97	-	-	640.97
	04/28/2009	648.42	7.38	641.04	-	-	641.04
	05/20/2009	648.42	7.39	641.03	-	-	641.03
	06/25/2009	648.42	7.97	640.45	-	-	640.45
	07/20/2009	648.42	8.77	639.65	-	-	639.65
	08/25/2009	648.42	9.98	638.44	-	-	638.44
	09/15/2009	648.42	11.00	637.42	-	-	637.42
	09/22/2009	648.42	11.40	637.02	-	-	637.02
	10/14/2009	648.42	11.81	636.61	-	-	636.61
	11/10/2009	648.42	11.88	636.54	-	-	636.54
	12/14/2009	648.42	12.54	635.88	-	-	635.88
	01/11/2010	648.42	12.72	635.70	-	-	635.70
	02/10/2010	648.42	12.38	636.04	-	-	636.04
	03/10/2010	648.42	12.26	636.16	-	-	636.16
	04/14/2010	648.42	12.03	636.39	-	-	636.39
	05/12/2010	648.42	12.92	635.50	-	-	635.50

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/17/2010	648.42	13.71	634.71	13.42	0.29	635.00
	07/14/2010	648.42	14.79	633.63	13.42	1.37	635.00
	08/09/2010	648.42	14.28	634.14	13.62	0.66	634.80
	09/16/2010	648.42	14.44	633.98	13.62	0.82	634.80
	10/13/2010	648.42	12.13	636.29	-	-	636.29
	11/16/2010	648.42	12.64	635.78	-	-	635.78
	12/16/2010	648.42	11.86	636.56	-	-	636.56
	01/13/2011	648.42	12.09	636.33	-	-	636.33
	03/14/2011	648.42	12.73	635.69	-	-	635.69
	04/12/2011	648.42	11.05	637.37	-	-	637.37
	05/19/2011	648.42	9.51	638.91	-	-	638.91
	06/20/2011	648.42	10.48	637.94	-	-	637.94
	07/13/2011	648.42	11.15	637.27	-	-	637.27
	08/11/2011	648.42	12.11	636.31	-	-	636.31
	09/30/2011	648.42	12.06	636.36	-	-	636.36
	10/19/2011	648.42	13.08	635.34	-	-	635.34
	11/17/2011	648.42	13.20	635.22	-	-	635.22
	12/07/2011	648.42	13.76	634.66	-	-	634.66
	01/09/2012	648.42	13.03	635.39	-	-	635.39
1795-PZ18	12/02/2002	651.40	16.57	634.83	-	-	634.83
	01/06/2003	651.40	15.98	635.42	-	-	635.42
	02/07/2003	651.40	16.18	635.22	-	-	635.22
	09/02/2004	651.40	14.88	636.52	-	-	636.52
	10/04/2004	651.40	14.94	636.46	-	-	636.46
	11/01/2004	651.40	15.34	636.06	-	-	636.06
	12/03/2004	651.40	15.32	636.08	-	-	636.08
	01/04/2005	651.40	13.62	637.78	-	-	637.78
	02/03/2005	651.40	13.14	638.26	-	-	638.26
	03/01/2005	651.40	13.55	637.85	-	-	637.85
	04/07/2005	651.40	12.21	639.19	-	-	639.19
	05/03/2005	651.40	12.61	638.79	-	-	638.79
	06/01/2005	651.40	13.20	638.20	-	-	638.20
	07/05/2005	651.40	14.30	637.10	-	-	637.10
	08/01/2005	651.40	14.81	636.59	-	-	636.59
	09/07/2005	651.40	15.33	636.07	-	-	636.07
	10/05/2005	651.40	14.65	636.75	-	-	636.75
	11/08/2005	651.40	12.91	638.49	-	-	638.49
	12/09/2005	651.40	11.31	640.09	-	-	640.09
	01/06/2006	651.40	12.13	639.27	-	-	639.27
	02/02/2006	651.40	10.48	640.92	-	-	640.92
	03/21/2006	651.40	10.21	641.19	-	-	641.19
	04/06/2006	651.40	10.91	640.49	-	-	640.49
	05/11/2006	651.40	11.56	639.84	-	-	639.84
	06/12/2006	651.40	12.29	639.11	-	-	639.11
	07/07/2006	651.40	12.56	638.84	-	-	638.84
1795-RW1	12/02/2002	653.99	17.74	636.25	-	-	636.25
	01/06/2003	653.99	12.16	641.83	12.15	0.01	641.84
	02/07/2003	653.99	17.40	636.59	17.39	0.01	636.60
	09/02/2004	653.99	16.15	637.84	-	-	637.84
	09/15/2004	653.99	15.74	638.25	-	-	638.25

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/04/2004	653.99	16.23	637.76	-	-	637.76
	11/01/2004	653.99	16.64	637.35	-	-	637.35
	12/03/2004	653.99	16.57	637.42	-	-	637.42
	01/04/2005	653.99	14.88	639.11	-	-	639.11
	02/03/2005	653.99	14.54	639.45	-	-	639.45
	03/01/2005	653.99	14.94	639.05	-	-	639.05
	04/07/2005	653.99	13.69	640.30	-	-	640.30
	04/19/2005	653.99	13.77	640.22	-	-	640.22
	05/03/2005	653.99	14.10	639.89	-	-	639.89
	06/01/2005	653.99	14.67	639.32	-	-	639.32
	07/05/2005	653.99	15.67	638.32	-	-	638.32
	08/01/2005	653.99	16.09	637.90	-	-	637.90
	09/07/2005	653.99	16.48	637.51	-	-	637.51
	10/05/2005	653.99	15.81	638.18	-	-	638.18
	11/08/2005	653.99	14.22	639.77	-	-	639.77
	12/09/2005	653.99	12.67	641.32	-	-	641.32
	01/06/2006	653.99	13.54	640.45	-	-	640.45
	02/02/2006	653.99	11.92	642.07	-	-	642.07
	03/21/2006	653.99	11.75	642.24	-	-	642.24
	04/06/2006	653.99	12.50	641.49	-	-	641.49
	04/25/2006	653.99	12.68	641.31	-	-	641.31
	05/11/2006	653.99	13.09	640.90	-	-	640.90
	06/12/2006	653.99	13.77	640.22	-	-	640.22
	07/07/2006	653.99	13.96	640.03	-	-	640.03
	10/05/2006	653.99	16.13	637.86	-	-	637.86
	05/23/2007	653.99	12.69	641.30	-	-	641.30
	09/19/2008	653.99	13.98	640.01	-	-	640.01
	10/23/2008	653.99	14.42	639.57	-	-	639.57
	12/30/2008	653.99	10.68	643.31	-	-	643.31
	01/28/2009	653.99	12.25	641.74	-	-	641.74
	02/24/2009	653.99	12.26	641.73	-	-	641.73
	03/27/2009	653.99	11.85	642.14	-	-	642.14
	04/28/2009	653.99	11.87	642.12	-	-	642.12
	05/20/2009	653.99	11.73	642.26	-	-	642.26
	06/25/2009	653.99	12.36	641.63	-	-	641.63
	07/20/2009	653.99	13.08	640.91	-	-	640.91
	08/25/2009	653.99	14.31	639.68	-	-	639.68
	09/15/2009	653.99	15.53	638.46	-	-	638.46
	09/22/2009	653.99	15.89	638.10	-	-	638.10
	10/14/2009	653.99	16.32	637.67	-	-	637.67
	11/10/2009	653.99	16.16	637.83	-	-	637.83
	12/14/2009	653.99	17.02	636.97	-	-	636.97
	01/11/2010	653.99	17.06	636.93	-	-	636.93
	02/10/2010	653.99	16.81	637.18	-	-	637.18
	03/10/2010	653.99	16.51	637.48	-	-	637.48
	04/14/2010	653.99	16.34	637.65	-	-	637.65
	05/12/2010	653.99	17.36	636.63	-	-	636.63
	06/17/2010	653.99	17.86	636.13	-	-	636.13
	07/14/2010	653.99	17.62	636.37	-	-	636.37
	08/09/2010	653.99	17.78	636.21	-	-	636.21
	09/16/2010	653.99	17.41	636.58	-	-	636.58
	10/13/2010	653.99	16.04	637.95	-	-	637.95

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/16/2010	653.99	16.85	637.14	-	-	637.14
	12/16/2010	653.99	16.12	637.87	-	-	637.87
	01/13/2011	653.99	16.38	637.61	-	-	637.61
	03/14/2011	653.99	15.24	638.75	-	-	638.75
	04/12/2011	653.99	15.63	638.36	-	-	638.36
	05/19/2011	653.99	14.21	639.78	-	-	639.78
	06/20/2011	653.99	15.14	638.85	-	-	638.85
	07/13/2011	653.99	15.81	638.18	-	-	638.18
	08/11/2011	653.99	10.65	643.34	-	-	643.34
	10/19/2011	653.99	17.34	636.65	-	-	636.65
	11/17/2011	653.99	17.49	636.50	-	-	636.50
	12/07/2011	653.99	18.01	635.98	-	-	635.98
	01/09/2012	653.99	17.21	636.78	-	-	636.78
1795-RW2	12/02/2002	647.68	10.92	636.76	-	-	636.76
	01/06/2003	647.68	10.38	637.30	-	-	637.30
	02/07/2003	647.68	10.65	637.03	-	-	637.03
	09/02/2004	647.68	9.59	638.09	-	-	638.09
	09/15/2004	647.68	9.16	638.52	-	-	638.52
	10/04/2004	647.68	10.17	637.51	9.88	0.29	637.73
	11/01/2004	647.68	10.62	637.06	10.29	0.33	637.31
	12/03/2004	647.68	9.90	637.78	-	-	637.78
	01/04/2005	647.68	8.81	638.87	-	-	638.87
	02/03/2005	647.68	8.93	638.75	-	-	638.75
	03/01/2005	647.68	9.15	638.53	-	-	638.53
	04/07/2005	647.68	8.02	639.66	-	-	639.66
	04/19/2005	647.68	8.21	639.47	-	-	639.47
	05/03/2005	647.68	8.33	639.35	-	-	639.35
	06/01/2005	647.68	8.98	638.70	-	-	638.70
	07/05/2005	647.68	9.66	638.02	-	-	638.02
	08/01/2005	647.68	9.78	637.90	-	-	637.90
	09/07/2005	647.68	9.82	637.86	9.80	0.02	637.88
	10/05/2005	647.68	9.26	638.42	-	-	638.42
	11/08/2005	647.68	8.14	639.54	-	-	639.54
	12/09/2005	647.68	7.18	640.50	-	-	640.50
	01/06/2006	647.68	7.55	640.13	-	-	640.13
	02/02/2006	647.68	6.46	641.22	-	-	641.22
	03/21/2006	647.68	6.68	641.00	-	-	641.00
	04/06/2006	647.68	7.18	640.50	-	-	640.50
	04/25/2006	647.68	8.08	639.60	-	-	639.60
	05/11/2006	647.68	7.74	639.94	-	-	639.94
	06/12/2006	647.68	8.08	639.60	-	-	639.60
	07/07/2006	647.68	8.28	639.40	-	-	639.40
	10/05/2006	647.68	9.54	638.14	-	-	638.14
	05/23/2007	647.68	7.28	640.40	-	-	640.40
	09/19/2008	647.68	NR	-	NR	-	-
	10/23/2008	647.68	8.82	638.86	-	-	638.86
	12/30/2008	647.68	5.22	642.46	-	-	642.46
	01/28/2009	647.68	7.05	640.63	-	-	640.63
	02/24/2009	647.68	7.16	640.52	-	-	640.52
	03/27/2009	647.68	6.65	641.03	-	-	641.03
	04/28/2009	647.68	6.78	640.90	-	-	640.90

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/20/2009	647.68	6.81	640.87	-	-	640.87
	06/25/2009	647.68	7.12	640.56	-	-	640.56
	07/20/2009	647.68	7.47	640.21	-	-	640.21
	08/25/2009	647.68	9.50	638.18	-	-	638.18
	09/15/2009	647.68	10.46	637.22	-	-	637.22
	09/22/2009	647.68	10.72	636.96	-	-	636.96
	10/14/2009	647.68	10.78	636.90	-	-	636.90
	11/10/2009	647.68	10.88	636.80	-	-	636.80
	12/14/2009	647.68	11.18	636.50	-	-	636.50
	01/11/2010	647.68	11.59	636.09	-	-	636.09
	02/10/2010	647.68	11.23	636.45	11.21	0.02	636.47
	03/10/2010	647.68	11.32	636.36	-	-	636.36
	04/14/2010	647.68	11.12	636.56	-	-	636.56
	05/12/2010	647.68	11.69	635.99	-	-	635.99
	06/17/2010	647.68	11.86	635.82	-	-	635.82
	07/14/2010	647.68	11.82	635.86	-	-	635.86
	08/09/2010	647.68	12.74	634.94	-	-	634.94
	09/16/2010	647.68	12.95	634.73	-	-	634.73
	10/13/2010	647.68	10.46	637.22	-	-	637.22
	11/16/2010	647.68	11.30	636.38	-	-	636.38
	12/16/2010	647.68	10.76	636.92	-	-	636.92
	01/13/2011	647.68	11.07	636.61	-	-	636.61
	03/14/2011	647.68	9.41	638.27	-	-	638.27
	04/12/2011	647.68	10.54	637.14	-	-	637.14
	05/19/2011	647.68	9.09	638.59	-	-	638.59
	06/20/2011	647.68	10.56	637.12	-	-	637.12
	07/13/2011	647.68	10.61	637.07	-	-	637.07
	08/11/2011	647.68	10.93	636.75	-	-	636.75
	09/30/2011	647.68	10.78	636.90	-	-	636.90
	10/19/2011	647.68	11.49	636.19	-	-	636.19
	11/17/2011	647.68	11.56	636.12	-	-	636.12
	12/07/2011	647.68	11.87	635.81	-	-	635.81
	01/09/2012	647.68	11.61	636.07	-	-	636.07
1795-RW3	12/02/2002	652.57	10.38	642.19	-	-	642.19
	01/06/2003	652.57	9.74	642.83	-	-	642.83
	02/07/2003	652.57	10.32	642.25	-	-	642.25
	09/02/2004	652.57	8.65	643.92	-	-	643.92
	09/15/2004	652.57	8.14	644.43	-	-	644.43
	10/04/2004	652.57	9.11	643.46	-	-	643.46
	11/01/2004	652.57	9.63	642.94	-	-	642.94
	12/03/2004	652.57	8.89	643.68	-	-	643.68
	01/04/2005	652.57	7.44	645.13	-	-	645.13
	02/03/2005	652.57	8.04	644.53	-	-	644.53
	03/01/2005	652.57	8.25	644.32	-	-	644.32
	04/07/2005	652.57	7.18	645.39	-	-	645.39
	04/19/2005	652.57	7.56	645.01	-	-	645.01
	05/03/2005	652.57	7.49	645.08	-	-	645.08
	06/01/2005	652.57	8.25	644.32	-	-	644.32
	07/05/2005	652.57	8.98	643.59	-	-	643.59
	08/01/2005	652.57	9.03	643.54	-	-	643.54
	09/07/2005	652.57	8.83	643.74	-	-	643.74

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/05/2005	652.57	8.20	644.37	-	-	644.37
	11/08/2005	652.57	7.27	645.30	-	-	645.30
	12/09/2005	652.57	6.35	646.22	-	-	646.22
	01/06/2006	652.57	6.55	646.02	-	-	646.02
	02/02/2006	652.57	5.43	647.14	-	-	647.14
	03/21/2006	652.57	5.75	646.82	-	-	646.82
	04/06/2006	652.57	6.07	646.50	-	-	646.50
	04/25/2006	652.57	5.96	646.61	-	-	646.61
	05/11/2006	652.57	6.74	645.83	-	-	645.83
	06/12/2006	652.57	6.96	645.61	-	-	645.61
	07/07/2006	652.57	7.30	645.27	-	-	645.27
	10/05/2006	652.57	8.56	644.01	-	-	644.01
	05/23/2007	652.57	6.32	646.25	-	-	646.25
1795-TP09	12/02/2002	649.28	13.71	635.57	-	-	635.57
	01/06/2003	649.28	13.15	636.13	-	-	636.13
	02/07/2003	649.28	13.36	635.92	-	-	635.92
	09/02/2004	649.28	12.04	637.24	11.94	0.10	637.32
	10/04/2004	649.28	12.05	637.23	11.99	0.06	637.28
	11/01/2004	649.28	12.42	636.86	12.41	0.01	636.87
	12/03/2004	649.28	12.31	636.97	-	-	636.97
	01/04/2005	649.28	10.43	638.85	-	-	638.85
	02/03/2005	649.28	10.56	638.72	10.55	0.01	638.73
	03/01/2005	649.28	10.59	638.69	-	-	638.69
	04/07/2005	649.28	9.25	640.03	-	-	640.03
	05/03/2005	649.28	9.66	639.62	-	-	639.62
	06/01/2005	649.28	10.28	639.00	-	-	639.00
	07/05/2005	649.28	11.43	637.85	-	-	637.85
	08/01/2005	649.28	11.93	637.35	-	-	637.35
	09/07/2005	649.28	12.35	636.93	-	-	636.93
	10/05/2005	649.28	11.64	637.64	-	-	637.64
	11/08/2005	649.28	9.94	639.34	-	-	639.34
	12/09/2005	649.28	8.33	640.95	-	-	640.95
	01/06/2006	649.28	9.12	640.16	-	-	640.16
	02/02/2006	649.28	7.38	641.90	-	-	641.90
	03/21/2006	649.28	7.27	642.01	-	-	642.01
	04/06/2006	649.28	7.92	641.36	-	-	641.36
	05/11/2006	649.28	8.62	640.66	-	-	640.66
	06/12/2006	649.28	9.36	639.92	-	-	639.92
	07/07/2006	649.28	9.64	639.64	-	-	639.64
	09/19/2008	649.28	NR	-	NR	-	-
	10/23/2008	649.28	NR	-	NR	-	-
	12/30/2008	649.28	NR	-	NR	-	-
	01/28/2009	649.28	NR	-	NR	-	-
1795-TP10	12/02/2002	652.44	13.34	639.10	-	-	639.10
	01/06/2003	652.44	12.68	639.76	-	-	639.76
	02/07/2003	652.44	13.17	639.27	-	-	639.27
	09/02/2004	652.44	11.72	640.72	-	-	640.72
	10/04/2004	652.44	11.96	640.48	-	-	640.48
	11/01/2004	652.44	12.43	640.01	-	-	640.01
	12/03/2004	652.44	11.92	640.52	-	-	640.52

**Table C-1
Historical Well Gauging Data Summary**

**Area 1795
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/04/2005	652.44	10.28	642.16	-	-	642.16
	02/03/2005	652.44	10.56	641.88	-	-	641.88
	03/01/2005	652.44	10.83	641.61	-	-	641.61
	04/07/2005	652.44	9.75	642.69	-	-	642.69
	05/03/2005	652.44	10.10	642.34	-	-	642.34
	06/01/2005	652.44	10.78	641.66	-	-	641.66
	07/05/2005	652.44	11.66	640.78	-	-	640.78
	08/01/2005	652.44	11.89	640.55	-	-	640.55
	09/07/2005	652.44	11.90	640.54	-	-	640.54
	10/05/2005	652.44	11.23	641.21	-	-	641.21
	11/08/2005	652.44	10.02	642.42	-	-	642.42
	12/09/2005	652.44	8.80	643.64	-	-	643.64
	01/06/2006	652.44	9.27	643.17	-	-	643.17
	02/02/2006	652.44	7.83	644.61	-	-	644.61
Well damaged during tree removal activities conducted in March 2006.							
WWII003	09/15/2004	NR	13.17	-	-	-	-
	04/19/2005	NR	11.46	-	-	-	-
	04/25/2006	NR	11.05	-	-	-	-
	10/05/2006	NR	13.53	-	-	-	-
	05/23/2007	NR	10.61	-	-	-	-
WWII004	09/15/2004	NR	19.09	-	-	-	-
	04/19/2005	NR	17.10	-	-	-	-
	04/25/2006	NR	15.95	-	-	-	-
	10/05/2006	NR	19.53	-	-	-	-
	05/23/2007	NR	16.28	-	-	-	-
WWII005	09/15/2004	NR	29.90	-	-	-	-
	04/19/2005	NR	21.35	-	-	-	-
	04/25/2006	NR	19.46	-	-	-	-
	10/05/2006	NR	22.31	-	-	-	-
	05/23/2007	NR	18.87	-	-	-	-
WWII006	09/15/2004	NR	24.53	-	-	-	-
	04/19/2005	NR	23.85	-	-	-	-
	04/25/2006	NR	21.94	-	-	-	-
	10/05/2006	NR	24.86	-	-	-	-
	05/23/2007	NR	21.31	-	-	-	-

NA = Not Available/Not Analyzed
 ND = Not Detected
 NR = Not Recorded

Table C-2
Site 1795A
November 2011 - January 2012 O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	SVE Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0927	On	25635.9	22.4	26936.5	22.4	5.0	92	30.30	0.0	74	1.6	7.0	110	6.5	68	0.00	303212.6	409.2	135.8	7.468	0.333	
11/02/11	0917	On	25659.7	23.8	26960.3	23.8	5.0	92	30.23	0.0	72	1.8	7.0	110	6.5	68	0.00	303212.6	433.5	160.6	9.942	0.418	
11/03/11	1050	On	25685.2	25.5	26985.8	25.5	5.0	100	30.03	0.0	84	1.6	6.0	130	5.5	80	0.00	303212.6	404.4	124.5	7.704	0.302	
11/04/11	0953	On	25707.4	22.2	27008.0	22.2	5.5	92	30.23	0.0	74	1.6	7.0	112	6.5	68	0.00	303212.6	433.5	128.4	7.414	0.334	
11/07/11	1023	On	25780.9	73.5	27101.5	73.5	5.0	98	30.22	0.0	84	1.8	7.0	130	6.0	80	0.05	303212.6	431.1	130.1	24.734	0.337	
11/08/11	1126	On	25805.9	25.0	27106.5	25.0	5.0	98	30.21	0.0	82	1.8	7.0	130	6.0	82	0.05	303212.6	431.0	123.6	7.991	0.320	
11/09/11	1151	On	25830.4	24.5	27131.0	24.5	5.0	104	29.98	0.0	98	1.8	6.0	142	5.5	86	0.05	303212.6	427.1	119.3	7.490	0.306	
11/10/11	0909	On	25851.7	21.3	27152.3	21.3	5.0	92	29.84	0.0	78	1.6	7.0	124	6.0	78	0.05	303212.6	406.1	118.7	6.160	0.289	
11/11/11	1239	On	25870.0	27.3	27179.6	27.3	5.0	92	29.69	0.0	78	1.6	7.0	118	6.0	72	0.05	303212.6	405.0	117.8	7.816	0.286	
11/14/11	0921	On	25947.8	68.8	27248.5	68.9	5.0	106	29.62	0.0	90	1.8	6.0	140	5.5	88	0.05	303212.6	423.8	114.8	20.082	0.292	
11/15/11	0937	On	25972.1	24.3	27272.7	24.2	5.0	92	29.72	0.0	78	1.8	7.0	128	6.0	78	0.05	303212.6	429.8	136.7	8.567	0.353	
11/16/11	0939	On	25996.2	24.1	27296.6	24.1	5.0	98	29.80	0.0	80	1.8	7.0	124	6.0	78	0.05	303212.6	428.1	142.3	8.809	0.366	
11/17/11	1333	On	26024.1	27.9	27324.7	27.9	5.0	92	29.89	0.0	78	1.6	7.0	118	6.0	72	0.05	303212.6	406.4	141.7	9.540	0.346	
11/18/11	0645	On	26041.2	17.1	27341.8	17.1	5.0	98	30.20	0.0	68	1.6	7.5	106	6.5	62	0.05	303212.6	412.0	141.8	5.965	0.349	
11/19/11	0909	On	26115.7	74.5	27416.3	74.5	5.0	86	30.38	0.0	64	1.6	7.5	106	6.5	62	0.05	303212.6	412.0	182.8	33.663	0.452	
11/22/11	1240	On	26143.2	27.5	27443.8	27.5	5.0	88	30.30	0.0	70	1.8	7.5	108	6.5	64	0.05	303212.6	435.6	174.8	12.563	0.457	
11/28/11	1114	On	26285.7	142.5	27586.3	142.5	5.0	92	30.05	0.0	78	1.8	7.0	120	6.0	74	0.10	303212.6	432.2	164.8	60.901	0.427	
11/29/11	1232	On	26311.1	25.4	27611.6	25.3	5.0	98	29.81	0.0	82	1.8	6.5	138	5.5	84	0.05	303212.6	428.2	169.7	11.008	0.433	
11/30/11	1228	On	26335.0	23.9	27635.6	23.0	5.0	92	29.59	0.0	78	1.6	6.5	120	6.0	74	0.05	303212.6	404.4	161.8	9.382	0.393	
12/01/11	0803	On	26354.6	19.6	27655.2	19.6	5.0	88	30.25	0.0	60	1.6	7.5	100	6.5	58	0.05	303212.6	410.3	187.4	9.043	0.461	
12/02/11	1100	On	26381.5	26.9	27682.1	26.9	5.0	90	30.33	0.0	68	1.8	7.0	110	6.5	64	0.05	303212.6	435.0	193.8	13.607	0.506	
12/05/11	1105	On	26435.6	72.1	27754.2	72.1	5.0	94	30.19	0.0	76	1.8	7.0	120	6.0	74	0.05	303212.6	432.4	218.3	40.838	0.566	
12/06/11	0909	On	26476.6	22.0	27776.2	22.0	5.0	90	30.08	0.0	70	1.6	7.0	110	6.5	68	0.05	303212.6	408.4	262.3	14.142	0.643	
12/08/11	0927	On	26498.9	23.3	27799.5	23.3	6.0	90	29.91	0.0	54	1.6	7.0	110	6.0	62	0.05	303212.6	429.1	206.5	11.758	0.505	
12/08/11	0915	On	26498.7	23.3	27799.5	23.3	6.0	90	29.97	0.0	68	1.6	7.5	108	6.5	64	0.05	303212.6	407.3	221.7	13.425	0.541	
12/09/11	0845	On	26523.7	24.8	27824.3	24.8	5.5	92	30.17	0.0	68	1.6	7.5	106	6.5	62	0.01	303212.6	408.3	267.6	15.406	0.656	
12/09/11	0742	On	26547.3	23.5	27847.8	23.5	6.0	90	30.46	0.0	70	1.6	7.0	110	6.5	64	0.05	303212.6	411.0	252.8	44.325	0.623	
12/12/11	0728	On	26618.3	71.1	27918.8	71.1	6.0	90	30.40	0.0	62	1.6	7.5	98	7.0	58	0.05	303212.6	411.0	239.6	13.931	0.620	
12/14/11	1201	On	26670.5	23.6	27942.5	23.6	6.0	98	30.31	0.0	74	1.8	9.0	124	6.0	92	0.25	303212.6	431.7	215.7	15.981	0.559	
12/15/11	1146	On	26694.2	23.7	27950.8	23.7	6.0	98	29.69	0.0	78	1.6	7.0	130	6.0	78	0.10	303212.6	402.9	205.1	11.750	0.496	
12/16/11	0751	On	26714.3	20.1	27974.5	20.1	6.0	98	29.99	0.0	72	1.8	7.5	120	6.5	72	0.10	303212.6	429.5	241.3	12.498	0.622	
12/19/11	1136	On	26790.1	75.8	28070.4	75.8	6.0	98	29.87	0.0	78	1.8	7.0	122	6.0	72	0.15	303212.6	428.6	226.7	14.190	0.583	
12/20/11	0959	On	26812.4	22.3	28092.5	22.4	6.0	90	30.17	0.0	62	1.6	7.5	102	7.0	60	0.15	303212.6	409.1	183.7	10.054	0.451	
12/21/11	0926	On	26835.9	23.5	28116.2	23.4	6.0	96	29.69	0.0	72	1.8	7.0	120	6.0	70	0.15	303212.6	428.1	174.8	10.551	0.449	
12/27/11	0902	On	26979.5	143.6	28259.8	143.6	6.0	92	29.38	0.0	66	1.6	7.0	110	6.5	60	0.15	303212.6	402.9	171.4	59.504	0.414	
12/29/11	0831	On	27027.0	47.5	28307.3	47.5	6.0	52	29.99	0.0	58	1.8	7.5	80	7.0	46	0.15	303212.6	448.3	165.7	21.172	0.446	
12/30/11	1146	On	27051.2	24.2	28331.6	24.3	6.0	90	29.94	0.0	60	1.6	7.5	102	7.0	58	0.15	303212.6	407.5	217.2	8.709	0.360	
01/03/12	1118	On	27149.7	98.5	28430.1	98.5	6.0	84	30.04	0.0	50	1.6	8.0	88	7.0	44	0.15	303212.6	410.4	132.7	32.187	0.327	
01/04/12	0838	On	27179.1	21.4	28451.4	21.3	6.0	84	30.00	0.0	54	1.4	7.5	86	7.0	50	0.15	303212.6	383.7	130.8	6.443	0.301	
01/05/12	0716	On	27193.7	22.6	28474.1	22.7	6.0	92	29.82	0.0	70	1.8	7.5	114	6.5	60	0.15	303212.6	430.6	148.7	8.682	0.384	
01/06/12	1025	On	27218.7	25.0	28499.1	25.0	6.0	94	29.71	0.0	72	1.8	7.0	122	6.0	80	0.15	303212.6	429.0	133.9	8.616	0.345	
01/09/12	0828	On	27288.8	70.1	28569.9	70.0	6.0	92	30.11	0.0	70	1.8	7.5	112	6.5	68	0.15	303212.6	432.6	139.6	25.403	0.362	
01/10/12	0914	On	27313.6	24.8	28593.9	24.8	6.0	96	29.85	0.0	78	1.8	7.0	124	6.0	72	0.15	303212.6	429.2	121.8	7.779	0.314	
01/11/12	1114	On	27339.5	25.9	28619.9	26.0	6.0	94	29.97	0.0	72	1.8	7.0	118	6.0	68	0.15	303212.6	430.9	120.8	8.088	0.312	
01/12/12	1101	On	27363.4	23.9	28643.7	23.8	6.0	92	29.54	0.0	72	1.6	7.0	122	6.0	68	0.15	303212.6	404.0	127.8	7.404	0.310	
01/13/12	1009	On	27386.5	23.1	28666.8	23.1	6.0	94	29.35	0.0	70	1.6	7.0	124	6.0	66	0.15	303212.6	402.0	119.6	6.664	0.288	
01/16/12	1614	On	27464.6	78.1	28744.9	78.1	6.0	88	30.08	0.0	62	1.6	7.5	110	7.0	78	0.15	303212.6	409.2	118.7	22.760	0.291	
01/17/12	1201	On	27484.3	19.7	28764.7	19.8	6.0	92	29.60	0.0	70	1.8	7.0	122	6.0	68	0.10	303212.6	429.0	120.7	6.120	0.311	
01/18/12	1311	On	27509.5	25.2	28789.5	25.1	6.0	88	29.92	0.0	62	1.8	7.5	102	7.0	58	0.15	303212.6	432.9	110.4	7.225	0.287	
01/19/12	0623	On	27526.7	17.2	28807.1	17.3	6.0	86	29.87	0.0	58	1.6	8.0	98	7.0	56	0.10	303212.6	408.5	123.4	5.202	0.302	
01/23/12	1355	On	27630.2	103.5	28910.6	103.5	6.0	96	29.94	0.0	72	1.6	6.5	134	6.0	72	0.10	303212.6	404.7	109.8	27.593	0.267	
01/24/12	948	On	27650.1	19.9	28930.5	19.9	6.0	92	29.94	0.0	76	1.6	7.5	128	6.5	70	0.10	303212.6	406.8	97.3	4.725	0.237	
01/25/12	0932	On	27673.9	23.8	28954.2	23.7	6.0	92	30.27	0.0	70	1.8	7.5	122	6.5	68	0.10	303212.6	433.8	104.3	6.461	0.271	
01/26/12	0857	On	27694.8	20.9	28975.1	20.9	6.0	94	29.99	0.0	80	1.8	7.5	122	7.0	68	0.10	303212.6	431.0	86.6	4.681	0.224	
01/27/12	0753	On	27717.7	22.9	28998.1	23																	

Table C-3
Site 1795B
November 2011 - January 2012 O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	SVE Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0919	On	NR	NR	25465.2	22.4	NR	NR	30.30	NR	NR	NR	5.5	116.0	7.0	74.0	0.5	NR	NR	NR	NR	NR	
11/02/11	909	On	NR	NR	25489.1	23.9	NR	NR	30.23	NR	NR	NR	5.5	112.0	7.0	72.0	0.5	NR	NR	NR	NR	NR	
11/03/11	1042	On	NR	NR	25514.6	25.5	NR	NR	30.03	NR	NR	NR	4.5	132.0	6.0	82.0	0.5	NR	NR	NR	NR	NR	
11/04/11	0945	On	NR	NR	25536.7	22.1	NR	NR	30.23	NR	NR	NR	5.5	110.0	7.0	74.0	0.5	NR	NR	NR	NR	NR	
11/07/11	1015	On	NR	NR	25610.2	73.5	NR	NR	30.22	NR	NR	NR	4.5	130.0	6.0	82.0	0.5	NR	NR	NR	NR	NR	
11/08/11	1118	On	NR	NR	25635.3	25.1	NR	NR	30.21	NR	NR	NR	4.5	130.0	6.0	82.0	0.5	NR	NR	NR	NR	NR	
11/09/11	1143	On	NR	NR	25659.7	24.4	NR	NR	29.98	NR	NR	NR	4.0	140.0	5.5	90.0	0.5	NR	NR	NR	NR	NR	
11/10/11	0901	On	NR	NR	25681.0	21.3	NR	NR	29.84	NR	NR	NR	4.5	120.0	6.0	80.0	0.5	NR	NR	NR	NR	NR	
11/11/11	1221	On	NR	NR	25708.3	27.3	NR	NR	29.69	NR	NR	NR	5.0	116.0	6.0	78.0	0.5	NR	NR	NR	NR	NR	
11/14/11	0913	On	NR	NR	25777.2	68.9	NR	NR	29.62	NR	NR	NR	4.0	138.0	6.0	88.0	0.5	NR	NR	NR	NR	NR	
11/15/11	0930	On	NR	NR	25801.5	24.3	NR	NR	29.72	NR	NR	NR	4.5	122.0	6.0	80.0	0.5	NR	NR	NR	NR	NR	
11/16/11	0931	On	NR	NR	25825.5	24.0	NR	NR	29.80	NR	NR	NR	4.5	120.0	6.0	82.0	0.5	NR	NR	NR	NR	NR	
11/17/11	1325	On	NR	NR	25853.4	27.9	NR	NR	29.89	NR	NR	NR	4.5	114.0	6.0	78.0	0.5	NR	NR	NR	NR	NR	
11/18/11	0636	On	NR	NR	25870.6	17.2	NR	NR	30.20	NR	NR	NR	5.5	104.0	7.0	68.0	0.5	NR	NR	NR	NR	NR	
11/21/11	0901	On	NR	NR	25945.0	74.4	NR	NR	30.38	NR	NR	NR	5.5	102.0	7.0	68.0	0.5	NR	NR	NR	NR	NR	
11/22/11	1232	On	NR	NR	25972.5	27.5	NR	NR	30.30	NR	NR	NR	5.0	108.0	6.5	70.0	0.5	NR	NR	NR	NR	NR	
11/28/11	1106	On	NR	NR	26115.1	142.6	NR	NR	30.05	NR	NR	NR	5.0	114.0	6.5	76.0	0.5	NR	NR	NR	NR	NR	
11/29/11	1224	On	NR	NR	26140.4	25.3	NR	NR	29.81	NR	NR	NR	4.0	132.0	6.0	86.0	0.5	NR	NR	NR	NR	NR	
11/30/11	1221	On	NR	NR	26164.3	23.9	NR	NR	29.59	NR	NR	NR	4.5	118.0	6.0	76.0	0.5	NR	NR	NR	NR	NR	
12/01/11	0754	On	NR	NR	26183.9	19.6	NR	NR	30.25	NR	NR	NR	5.5	98.0	7.0	58.0	0.5	NR	NR	NR	NR	NR	
12/02/11	1052	On	NR	NR	26210.8	26.9	NR	NR	30.33	NR	NR	NR	5.0	106.0	6.5	68.0	0.5	NR	NR	NR	NR	NR	
12/05/11	1057	On	NR	NR	26282.9	72.1	NR	NR	30.19	NR	NR	NR	5.0	116.0	6.5	78.0	0.5	NR	NR	NR	NR	NR	
12/06/11	0901	On	NR	NR	26305.0	22.1	NR	NR	30.08	NR	NR	NR	5.0	110.0	7.0	70.0	0.5	NR	NR	NR	NR	NR	
12/07/11	819	On	NR	NR	26328.3	23.3	NR	NR	29.91	NR	NR	NR	5.0	106.0	7.0	62.0	0.5	NR	NR	NR	NR	NR	
12/08/11	0907	On	NR	NR	26353.1	24.8	NR	NR	29.97	NR	NR	NR	5.0	100.0	6.5	62.0	0.4	NR	NR	NR	NR	NR	
12/09/11	0835	On	NR	NR	26376.5	23.4	NR	NR	30.17	NR	NR	NR	5.5	100.0	7.0	66.0	0.4	NR	NR	NR	NR	NR	
12/12/11	0742	On	NR	NR	26447.6	71.1	NR	NR	30.46	NR	NR	NR	5.0	92.0	7.0	58.0	0.4	NR	NR	NR	NR	NR	
12/13/11	0720	On	NR	NR	26471.3	23.7	NR	NR	30.40	NR	NR	NR	5.5	94.0	7.0	58.0	0.4	NR	NR	NR	NR	NR	
12/14/11	1153	On	NR	NR	26479.5	8.2	NR	NR	30.31	NR	NR	NR	7.0	108.0	8.0	78.0	0.1	NR	NR	NR	NR	NR	
12/15/11	1134	On	NR	NR	26503.2	23.7	NR	NR	29.69	NR	NR	NR	4.0	110.0	6.0	70.0	0.2	NR	NR	NR	NR	NR	
12/16/11	0742	On	NR	NR	26523.4	20.2	NR	NR	29.99	NR	NR	NR	5.0	100.0	6.5	64.0	0.1	NR	NR	NR	NR	NR	
12/19/11	1127	On	NR	NR	26599.1	75.7	NR	NR	29.87	NR	NR	NR	4.5	102.0	6.0	66.0	0.1	NR	NR	NR	NR	NR	
12/20/11	0952	On	NR	NR	26621.5	22.4	NR	NR	30.17	NR	NR	NR	5.5	86.0	7.0	54.0	0.2	NR	NR	NR	NR	NR	
12/21/11	0918	On	NR	NR	26645.0	23.5	NR	NR	29.69	NR	NR	NR	4.5	100.0	6.0	80.0	0.2	NR	NR	NR	NR	NR	
12/27/11	0854	On	NR	NR	26788.6	143.6	NR	NR	29.38	NR	NR	NR	5.0	92.0	6.5	56.0	0.2	NR	NR	NR	NR	NR	
12/29/11	0822	On	NR	NR	26836.0	47.4	NR	NR	29.99	NR	NR	NR	6.0	72.0	7.5	42.0	0.2	NR	NR	NR	NR	NR	
12/30/11	0839	On	NR	NR	26860.3	24.3	NR	NR	29.94	NR	NR	NR	5.0	84.0	7.0	52.0	0.2	NR	NR	NR	NR	NR	
01/03/12	1109	On	NR	NR	26958.8	98.5	NR	NR	30.04	NR	NR	NR	5.5	72.0	7.0	44.0	0.2	NR	NR	NR	NR	NR	
01/04/12	0830	On	NR	NR	26980.2	21.4	NR	NR	30.00	NR	NR	NR	6.0	62.0	7.5	36.0	0.2	NR	NR	NR	NR	NR	
01/05/12	0708	On	NR	NR	27002.8	22.6	NR	NR	29.82	NR	NR	NR	4.5	92.0	6.0	62.0	0.2	NR	NR	NR	NR	NR	
01/06/12	1017	On	NR	NR	27027.8	25.0	NR	NR	29.71	NR	NR	NR	4.5	100.0	6.0	70.0	0.2	NR	NR	NR	NR	NR	
01/09/12	0820	On	NR	NR	27097.9	70.1	NR	NR	30.11	NR	NR	NR	5.0	94.0	7.0	64.0	0.2	NR	NR	NR	NR	NR	
01/10/12	0904	On	NR	NR	27122.6	24.7	NR	NR	29.85	NR	NR	NR	4.5	100.0	6.5	62.0	0.2	NR	NR	NR	NR	NR	
01/11/12	1106	On	NR	NR	27148.6	26.0	NR	NR	29.97	NR	NR	NR	5.0	98.0	6.5	62.0	0.2	NR	NR	NR	NR	NR	
01/12/12	1053	On	NR	NR	27172.4	23.8	NR	NR	29.54	NR	NR	NR	4.5	98.0	6.0	64.0	0.2	NR	NR	NR	NR	NR	
01/13/12	1000	On	NR	NR	27195.5	23.1	NR	NR	29.35	NR	NR	NR	4.5	96.0	6.0	62.0	0.2	NR	NR	NR	NR	NR	
01/16/12	1606	On	NR	NR	27273.6	78.1	NR	NR	30.08	NR	NR	NR	4.5	92.0	6.0	60.0	0.2	NR	NR	NR	NR	NR	
01/17/12	1153	On	NR	NR	27293.4	19.8	NR	NR	29.60	NR	NR	NR	4.5	98.0	6.0	66.0	0.1	NR	NR	NR	NR	NR	
01/18/12	1303	On	NR	NR	27318.6	25.2	NR	NR	29.92	NR	NR	NR	5.0	84.0	6.5	62.0	0.2	NR	NR	NR	NR	NR	
01/19/12	0615	On	NR	NR	27335.8	17.2	NR	NR	29.87	NR	NR	NR	5.0	78.0	7.0	56.0	0.2	NR	NR	NR	NR	NR	
01/23/12	1347	On	NR	NR	27439.3	103.5	NR	NR	29.85	NR	NR	NR	4.5	104.0	6.0	62.0	0.1	NR	NR	NR	NR	NR	
01/24/12	940	On	NR	NR	27459.2	19.9	NR	NR	29.94	NR	NR	NR	4.5	98.0	6.5	62.0	0.2	NR	NR	NR	NR	NR	
01/25/12	0924	On	NR	NR	27483.0	23.8	NR	NR	30.27	NR	NR	NR	5.0	92.0	6.5	66.0	0.3	NR	NR	NR	NR	NR	
01/26/12	0849	On	NR	NR	27503.9	20.9	NR	NR	29.99	NR	NR	NR	6.0	100.0	8.0	60.0	0.3	NR	NR	NR	NR	NR	
01/27/12	0744	On	NR	NR	27526.8	22.9	NR	NR	29.52	NR	NR	NR	5.5	114.0	6.5	68.0	0.3	NR	NR	NR	NR	NR	
01/30/12	1513	On	NR	NR	27606.3	79.5	NR	NR	30.19	NR	NR	NR	5.5	102.0	7.0	62.0	0.3	NR	NR	NR	NR	NR	
01/31/12	1230	On	NR	NR	27627.5	21.2	NR	NR	30.00	NR	NR	NR	5.0	112.0	7.0	70.0	0.3	NR	NR	NR	NR	NR	

Notes:
 NR = Not Recorded.
 in Hg = inches Mercury
 F = degrees Fahrenheit
 psi = Pressure per Square Inch
 in H₂O = inches Water
 cfm = Cubic Feet per Minute
 ppm = Parts Per Million
 lbs = Pounds
 lbs/hr = Pounds per Hour
 OWS = Oil Water Separator
 *Flowmeter may have been replaced for repairs during the duration of the system activation.

Table C-4
 Site 1795C
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	Sparge Hour Meter	Sparge Hours Operated	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	Notes
11/01/11	0909	On	30057.2	22.5	6.0	110.0	8.5	60.0	0.25	
11/02/11	0902	On	30086.1	28.9	7.0	114.0	9.0	60.0	0.30	
11/03/11	1039	On	30105.6	19.5	6.0	137.0	8.0	78.0	0.30	
11/04/11	0938	On	30128.7	23.1	6.5	110.0	9.5	56.0	0.30	
11/07/11	1010	On	30202.2	73.5	6.0	130.0	8.0	72.0	0.30	
11/08/11	1000	On	30226.1	23.9	6.0	130.0	8.0	72.0	0.25	
11/09/11	1136	On	30251.6	25.5	5.5	142.0	7.5	90.0	0.25	
11/10/11	0800	On	30272.1	20.5	6.0	120.0	9.0	66.0	0.25	
11/11/11	1211	On	30300.2	28.1	6.0	112.0	9.0	58.0	0.30	
11/14/11	0906	On	30369.1	68.9	5.0	140.0	7.0	84.0	0.30	
11/15/11	0922	On	30393.4	24.3	6.5	122.0	8.5	68.0	0.25	
11/16/11	0913	On	30417.2	23.8	6.0	122.0	8.0	68.0	0.30	
11/17/11	1135	On	30443.6	26.4	6.5	110.0	9.5	58.0	0.30	
11/18/11	0629	On	30462.6	19.0	6.0	104.0	9.5	50.0	0.30	
11/21/11	0851	On	30537.0	74.4	7.0	98.0	9.5	48.0	0.30	
11/22/11	1226	On	30564.5	27.5	6.5	108.0	9.5	58.0	0.30	
11/28/11	1100	On	30707.0	142.5	6.5	118.0	9.5	62.0	0.30	
11/29/11	1218	On	30732.3	25.3	5.0	136.0	7.5	78.0	0.30	
11/30/11	1215	On	30756.3	24.0	5.5	120.0	8.0	68.0	0.30	
12/01/11	0811	On	30776.2	19.9	6.5	98.0	9.5	54.0	0.35	
12/02/11	1036	On	30802.7	26.5	6.0	108.0	9.5	56.0	0.35	
12/05/11	1049	On	30875.9	73.2	6.0	118.0	9.5	64.0	0.35	
12/06/11	0856	On	30897.0	21.1	6.0	106.0	9.5	52.0	0.30	
12/07/11	0808	On	30920.2	23.2	7.0	102.0	9.0	56.0	0.35	
12/12/11	0900	On	30945.0	24.8	6.5	100.0	9.5	54.0	0.35	
12/13/11	0715	On	31063.3	118.3	6.5	96.0	9.0	54.0	0.35	
12/14/11	1145	On	31091.8	28.5	7.0	112.0	8.5	64.0	0.35	
12/15/11	1127	On	31115.4	23.6	6.5	118.0	8.0	78.0	0.35	
12/16/11	0735	On	31135.6	20.2	6.5	108.0	9.0	58.0	0.35	
12/19/11	1122	On	31211.4	75.8	7.0	110.0	9.0	60.0	0.35	
12/20/11	0945	On	31233.8	22.4	6.5	92.0	9.5	52.0	0.45	
12/21/11	0903	On	31257.1	23.3	6.0	106.0	9.5	58.0	0.40	
12/27/11	0847	On	31400.9	143.8	6.5	100.0	9.5	52.0	0.35	
12/29/11	0813	On	31448.3	47.4	7.0	78.0	9.5	40.0	0.45	
12/30/11	0830	On	31472.5	24.2	6.0	90.0	9.5	52.0	0.40	
01/03/12	1102	On	31571.1	98.6	6.0	78.0	10.0	40.0	0.45	
01/04/12	0823	On	31592.4	21.3	7.0	74.0	9.5	40.0	0.35	
01/05/12	0659	On	31615.0	22.6	6.5	100.0	9.0	52.0	0.35	
01/06/12	1011	On	31642.2	27.2	7.0	108.0	8.5	58.0	0.30	
01/09/12	0813	On	31712.2	70.0	7.0	100.0	9.0	56.0	0.30	
01/10/12	0854	On	31737.0	24.8	6.5	104.0	9.0	54.0	0.35	
01/11/12	1103	On	31763.1	26.1	6.5	100.0	9.5	50.0	0.35	
01/12/12	1049	On	31786.8	23.7	6.0	102.0	9.0	58.0	0.35	
01/13/12	954	On	31809.9	23.1	6.0	100.0	9.0	58.0	0.35	
01/16/12	1546	On	31887.8	77.9	7.0	92.0	9.5	44.0	0.35	
01/17/12	1147	On	31907.8	20.0	6.5	102.0	9.5	50.0	0.35	
01/18/12	1257	On	31935.0	27.2	6.5	86.0	9.5	46.0	0.35	
01/19/12	0609	On	31950.2	15.2	6.5	78.0	10.0	42.0	0.40	
01/23/12	1340	On	32053.7	103.5	6.0	116.0	8.5	66.0	0.35	
01/24/12	0932	On	32073.8	20.1	7.0	104.0	9.0	58.0	0.35	
01/25/12	0907	On	32097.2	23.4	7.0	100.0	9.0	54.0	0.35	
01/26/12	0841	On	32120.4	23.2	7.0	106.0	8.0	74.0	0.35	
01/27/12	0737	On	32143.4	23.0	6.0	104.0	7.5	58.0	0.35	
01/30/12	1504	On	32222.8	79.4	5.5	104.0	7.5	70.0	0.35	
01/31/12	1225	On	32244.1	21.3	6.0	118.0	7.0	82.0	0.35	

Notes:

NR = Not Recorded.
 psi = Pressure per Square Inch
 F = degrees Fahrenheit
 in H₂O = inches Water

APPENDIX D

Summary of Well Gauging Results and Operation and Maintenance Data

Areas 3805 and 1995

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
1995-MW42	09/16/2004	NR	24.36	-	-	-	-
	04/20/2005	NR	24.55	-	-	-	-
	04/26/2006	NR	22.40	-	-	-	-
	10/04/2006	NR	42.63	-	-	-	-
	05/25/2007	NR	NR	-	NR	-	-
1995-MW43	09/16/2004	NR	25.78	-	-	-	-
	04/20/2005	NR	25.41	-	-	-	-
	04/26/2006	NR	23.81	-	-	-	-
	10/04/2006	NR	26.02	-	-	-	-
	05/25/2007	NR	NR	-	NR	-	-
1995-MWS1	09/16/2004	NR	21.94	-	-	-	-
	04/20/2005	NR	21.57	-	-	-	-
	04/26/2006	NR	20.02	-	-	-	-
	10/04/2006	NR	22.39	-	-	-	-
	05/25/2007	NR	19.68	-	-	-	-
1995-MWS2	09/16/2004	NR	36.94	-	-	-	-
	04/20/2005	NR	35.81	-	-	-	-
	04/26/2006	NR	36.25	-	-	-	-
	10/04/2006	NR	23.45	-	-	-	-
	05/25/2007	NR	36.01	-	-	-	-
1995-MWS3	09/16/2004	NR	NR	-	NR	-	-
	04/20/2005	NR	30.05	-	-	-	-
	04/26/2006	NR	28.76	-	-	-	-
	10/04/2006	NR	31.18	-	-	-	-
	05/25/2007	NR	28.41	-	-	-	-
1995-MWS6	12/04/2002	669.02	26.92	642.10	-	-	642.10
	01/03/2003	669.02	26.53	642.49	-	-	642.49
	02/03/2003	669.02	26.45	642.57	-	-	642.57
	09/16/2004	669.02	24.84	644.18	-	-	644.18
	04/20/2005	669.02	24.28	644.74	-	-	644.74
	04/26/2006	669.02	22.76	646.26	-	-	646.26
	10/04/2006	669.02	25.08	643.94	-	-	643.94
	05/25/2007	669.02	22.35	646.67	-	-	646.67
1995-MWS9	12/04/2002	659.24	26.61	632.63	26.15	0.46	632.98
	01/03/2003	659.24	25.78	633.46	-	-	633.46
	02/03/2003	659.24	25.72	633.52	-	-	633.52
	05/25/2007	659.24	NR	-	NR	-	-
1995-MWS10	12/04/2002	659.24	26.61	632.63	26.23	0.38	632.92
	01/03/2003	659.24	25.89	633.35	25.79	0.10	633.43
	02/03/2003	659.24	25.75	633.49	-	-	633.49
	05/25/2007	659.24	31.21	628.03	-	-	628.03
1995-PZ4	12/04/2002	668.55	26.26	642.29	-	-	642.29

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/03/2003	668.55	25.84	642.71	-	-	642.71
	02/03/2003	668.55	25.77	642.78	-	-	642.78
	09/16/2004	668.55	24.09	644.46	-	-	644.46
	04/20/2005	668.55	23.60	644.95	-	-	644.95
	04/26/2006	668.55	22.04	646.51	-	-	646.51
	10/04/2006	668.55	24.70	643.85	-	-	643.85
	05/25/2007	668.55	21.61	646.94	-	-	646.94
1995-PZ5	12/04/2002	667.77	26.51	641.26	26.49	0.02	641.28
	01/03/2003	667.77	26.07	641.70	-	-	641.70
	02/03/2003	667.77	25.98	641.79	-	-	641.79
	09/16/2004	667.77	24.34	643.43	-	-	643.43
	04/20/2005	667.77	23.76	644.01	-	-	644.01
	04/26/2006	667.77	22.25	645.52	-	-	645.52
	10/04/2006	667.77	24.74	643.03	-	-	643.03
	05/25/2007	667.77	21.66	646.11	-	-	646.11
1995-PZ6	12/04/2002	664.48	26.42	638.06	-	-	638.06
	01/03/2003	664.48	25.95	638.53	-	-	638.53
	02/03/2003	664.48	25.91	638.57	-	-	638.57
	09/16/2004	664.48	24.07	640.41	-	-	640.41
	04/20/2005	664.48	23.43	641.05	-	-	641.05
	04/26/2006	664.48	22.25	642.23	-	-	642.23
	10/04/2006	664.48	25.50	638.98	-	-	638.98
	05/25/2007	664.48	21.90	642.58	-	-	642.58
1995-PZ8	12/04/2002	669.97	26.81	643.16	-	-	643.16
	01/03/2003	669.97	26.40	643.57	-	-	643.57
	02/03/2003	669.97	26.35	643.62	-	-	643.62
	09/16/2004	669.97	24.60	645.37	-	-	645.37
	04/20/2005	669.97	24.04	645.93	-	-	645.93
	04/26/2006	669.97	22.60	647.37	-	-	647.37
	10/04/2006	669.97	24.92	645.05	-	-	645.05
	05/25/2007	669.97	22.20	647.77	-	-	647.77
1995-PZ13S	12/04/2002	645.09	NR	-	NR	-	-
	01/03/2003	645.09	NR	-	NR	-	-
	02/03/2003	645.09	24.33	620.76	-	-	620.76
1995-RW4	12/04/2002	668.31	26.07	642.24	-	-	642.24
	01/03/2003	668.31	26.07	642.24	-	-	642.24
	02/03/2003	668.31	26.01	642.30	-	-	642.30
	09/16/2004	668.31	24.36	643.95	-	-	643.95
	04/20/2005	668.31	23.81	644.50	-	-	644.50
	04/26/2006	668.31	22.28	646.03	-	-	646.03
	10/04/2006	668.31	24.75	643.56	-	-	643.56
	05/25/2007	668.31	21.70	646.61	-	-	646.61
3805-002	12/04/2002	661.50	20.53	640.97	-	-	640.97
	01/03/2003	661.50	20.13	641.37	-	-	641.37

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/03/2003	661.50	20.20	641.30	-	-	641.30
	09/16/2004	661.50	17.27	644.23	-	-	644.23
	04/20/2005	661.50	15.97	645.53	15.96	0.01	645.54
	04/26/2006	661.50	12.60	648.90	-	-	648.90
	10/04/2006	661.50	18.08	643.42	-	-	643.42
	05/25/2007	661.50	14.95	646.55	-	-	646.55
3805-003	12/04/2002	662.55	21.85	640.70	-	-	640.70
	01/03/2003	662.55	21.50	641.05	-	-	641.05
	02/03/2003	662.55	21.47	641.08	-	-	641.08
	09/16/2004	662.55	18.84	643.71	-	-	643.71
	04/20/2005	662.55	18.07	644.48	-	-	644.48
	04/26/2006	662.55	16.19	646.36	-	-	646.36
	10/04/2006	662.55	19.55	643.00	-	-	643.00
	05/25/2007	662.55	16.61	645.94	-	-	645.94
3805-014	12/04/2002	656.64	18.01	638.63	-	-	638.63
	01/03/2003	656.64	17.63	639.01	-	-	639.01
	02/03/2003	656.64	NR	-	NR	-	-
	09/16/2004	656.64	14.50	642.14	-	-	642.14
	04/20/2005	656.64	13.23	643.41	-	-	643.41
	04/26/2006	656.64	12.62	644.02	-	-	644.02
	10/04/2006	656.64	15.70	640.94	-	-	640.94
	05/25/2007	656.64	12.21	644.43	-	-	644.43
3805-015	09/16/2004	NR	14.73	-	-	-	-
	04/20/2005	NR	13.75	-	-	-	-
	04/26/2006	NR	12.50	-	-	-	-
	10/04/2006	NR	15.64	-	-	-	-
	05/25/2007	NR	12.37	-	-	-	-
3805-016	09/16/2004	NR	16.46	-	-	-	-
	04/20/2005	NR	15.51	-	-	-	-
	04/26/2006	NR	14.53	-	-	-	-
	10/04/2006	NR	17.42	-	-	-	-
	05/25/2007	NR	14.22	-	-	-	-
3805-MW39	09/16/2004	NR	18.18	-	-	-	-
	04/20/2005	NR	15.03	-	-	-	-
	04/26/2006	NR	16.30	-	-	-	-
	10/04/2006	NR	18.90	-	-	-	-
	05/25/2007	NR	16.09	-	-	-	-
3805-MW40	09/16/2004	NR	20.32	-	-	-	-
	04/20/2005	NR	19.72	-	-	-	-
	04/26/2006	NR	18.38	-	-	-	-
	10/04/2006	NR	20.92	-	-	-	-
	05/25/2007	NR	18.13	-	-	-	-
3805-MW41	09/16/2004	NR	16.05	-	-	-	-

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/20/2005	NR	16.10	-	-	-	-
	04/26/2006	NR	14.27	-	-	-	-
	10/04/2006	NR	16.65	-	-	-	-
	05/25/2007	NR	14.11	-	-	-	-
3805-MWD10	09/16/2004	NR	27.47	-	-	-	-
	04/20/2005	NR	26.17	-	-	-	-
	04/26/2006	NR	25.46	-	-	-	-
	10/04/2006	NR	28.14	-	-	-	-
	05/25/2007	NR	25.08	-	-	-	-
3805-MWD13	09/16/2004	NR	30.22	-	-	-	-
	04/20/2005	NR	29.40	-	-	-	-
	04/26/2006	NR	29.02	-	-	-	-
	10/04/2006	NR	30.62	-	-	-	-
	05/25/2007	NR	28.83	-	-	-	-
3805-MWD16	09/16/2004	NR	31.11	-	-	-	-
	04/20/2005	NR	30.61	-	-	-	-
	04/26/2006	NR	30.49	-	-	-	-
	10/04/2006	NR	31.12	-	-	-	-
	05/25/2007	NR	30.40	-	-	-	-
3805-MWD18	09/16/2004	NR	31.87	-	-	-	-
	04/20/2005	NR	31.60	-	-	-	-
	04/26/2006	NR	31.49	-	-	-	-
	10/04/2006	NR	32.41	-	-	-	-
	05/25/2007	NR	31.35	-	-	-	-
3805-MWI6	09/16/2004	NR	16.81	-	-	-	-
	04/20/2005	NR	14.92	-	-	-	-
3805-MWI9	09/16/2004	NR	26.28	-	-	-	-
	04/20/2005	NR	24.96	-	-	-	-
	04/26/2006	NR	24.22	-	-	-	-
	10/04/2006	NR	26.92	-	-	-	-
	05/25/2007	NR	23.86	-	-	-	-
3805-MWI12	09/16/2004	NR	30.10	-	-	-	-
	04/20/2005	NR	29.24	-	-	-	-
	04/26/2006	NR	28.83	-	-	-	-
	10/04/2006	NR	30.53	-	-	-	-
	05/25/2007	NR	28.66	-	-	-	-
3805-MWI15	09/16/2004	NR	29.41	-	-	-	-
	04/20/2005	NR	28.86	-	-	-	-
	04/26/2006	NR	28.71	-	-	-	-
	10/04/2006	NR	29.43	-	-	-	-
	05/25/2007	NR	28.67	-	-	-	-

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
3805-MWI17	09/16/2004	NR	31.89	-	-	-	-
	04/20/2005	NR	31.61	-	-	-	-
	04/26/2006	NR	31.48	-	-	-	-
	10/04/2006	NR	32.36	-	-	-	-
	05/25/2007	NR	31.43	-	-	-	-
3805-MWI20	09/16/2004	NR	15.77	-	-	-	-
	04/20/2005	NR	14.69	-	-	-	-
	04/26/2006	NR	14.66	-	-	-	-
	10/04/2006	NR	16.21	-	-	-	-
	05/25/2007	NR	14.55	-	-	-	-
3805-MWI22	09/16/2004	NR	2.48	-	-	-	-
	04/20/2005	NR	1.68	-	-	-	-
	04/26/2006	NR	6.36	-	-	-	-
	10/04/2006	NR	9.27	-	-	-	-
	05/25/2007	NR	1.84	-	-	-	-
3805-MWS1	09/16/2004	NR	10.95	-	-	-	-
	04/20/2005	NR	9.86	-	-	-	-
	04/26/2006	NR	8.29	-	-	-	-
	10/04/2006	NR	11.58	-	-	-	-
	05/25/2007	NR	8.36	-	-	-	-
3805-MWS2	09/16/2004	NR	10.70	-	-	-	-
	04/20/2005	NR	9.45	-	-	-	-
	04/26/2006	NR	7.96	-	-	-	-
	10/04/2006	NR	11.33	-	-	-	-
	05/25/2007	NR	8.12	-	-	-	-
3805-MWS3	09/16/2004	NR	18.11	-	-	-	-
	04/20/2005	NR	16.86	-	-	-	-
	04/26/2006	NR	16.08	-	-	-	-
	10/04/2006	NR	18.98	-	-	-	-
	05/25/2007	NR	15.71	-	-	-	-
3805-MWS4	12/04/2002	634.98	32.32	602.66	-	-	602.66
	01/03/2003	634.98	32.32	602.66	-	-	602.66
	02/03/2003	634.98	32.39	602.59	-	-	602.59
	09/16/2004	634.98	32.17	602.81	-	-	602.81
	04/20/2005	634.98	31.88	603.10	-	-	603.10
	04/26/2006	634.98	31.74	603.24	-	-	603.24
	10/04/2006	634.98	32.68	602.30	-	-	602.30
	05/25/2007	634.98	31.70	603.28	-	-	603.28
3805-MWS5	12/04/2002	659.24	19.52	639.72	-	-	639.72
	01/03/2003	659.24	19.23	640.01	-	-	640.01
	02/03/2003	659.24	19.33	639.91	-	-	639.91
	09/16/2004	659.24	15.61	643.63	-	-	643.63
	04/20/2005	659.24	NR	-	NR	-	-

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/26/2006	659.24	14.50	644.74	-	-	644.74
	10/04/2006	659.24	16.66	642.58	-	-	642.58
	05/25/2007	659.24	13.64	645.60	-	-	645.60
3805-MWS8	09/16/2004	NR	26.67	-	-	-	-
	04/20/2005	NR	25.34	-	-	-	-
	04/26/2006	NR	25.58	-	-	-	-
	10/04/2006	NR	27.31	-	-	-	-
	05/25/2007	NR	24.23	-	-	-	-
3805-MWS11	12/04/2002	654.66	30.32	624.34	-	-	624.34
	01/03/2003	654.66	30.14	624.52	-	-	624.52
	02/03/2003	654.66	30.22	624.44	-	-	624.44
	09/16/2004	654.66	28.95	625.71	-	-	625.71
	04/20/2005	654.66	28.13	626.53	-	-	626.53
	04/26/2006	654.66	27.69	626.97	-	-	626.97
	10/04/2006	654.66	29.45	625.21	-	-	625.21
	05/25/2007	654.66	27.56	627.10	-	-	627.10
3805-MWS14	09/16/2004	NR	29.02	-	-	-	-
	04/20/2005	NR	28.48	-	-	-	-
	04/26/2006	NR	28.22	-	-	-	-
	10/04/2006	NR	29.06	-	-	-	-
	05/25/2007	NR	28.22	-	-	-	-
3805-MWS19	09/16/2004	NR	14.66	-	-	-	-
	04/20/2005	NR	13.19	-	-	-	-
	04/26/2006	NR	13.26	-	-	-	-
	10/04/2006	NR	15.30	-	-	-	-
	05/25/2007	NR	13.21	-	-	-	-
3805-MWS21	09/16/2004	NR	10.14	-	-	-	-
	04/20/2005	NR	9.76	-	-	-	-
	04/26/2006	NR	9.77	-	-	-	-
	10/04/2006	NR	10.40	-	-	-	-
	05/25/2007	NR	9.83	-	-	-	-
3805-MWS23	12/04/2002	662.18	NR	-	NR	-	-
	01/03/2003	662.18	18.89	643.29	18.45	0.44	643.62
	02/03/2003	662.18	19.35	642.83	18.65	0.70	643.36
	09/16/2004	662.18	16.06	646.12	-	-	646.12
	04/20/2005	662.18	14.02	648.16	-	-	648.16
	04/26/2006	662.18	14.05	648.13	-	-	648.13
	10/04/2006	662.18	16.70	645.48	-	-	645.48
	05/25/2007	662.18	13.81	648.37	-	-	648.37
3805-MWS24	12/04/2002	657.73	23.45	634.28	-	-	634.28
	01/03/2003	657.73	23.25	634.48	-	-	634.48
	02/03/2003	657.73	23.30	634.43	23.29	0.01	634.44
	09/16/2004	657.73	20.08	637.65	-	-	637.65

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/20/2005	657.73	19.13	638.60	-	-	638.60
	04/26/2006	657.73	19.28	638.45	-	-	638.45
	10/04/2006	657.73	19.60	638.13	-	-	638.13
	05/25/2007	657.73	18.57	639.16	-	-	639.16
3805-P1	12/04/2002	658.71	19.09	639.62	-	-	639.62
	01/03/2003	658.71	18.85	639.86	-	-	639.86
	02/03/2003	658.71	18.95	639.76	-	-	639.76
	09/16/2004	658.71	15.50	643.21	-	-	643.21
	04/20/2005	658.71	13.84	644.87	-	-	644.87
	04/26/2006	658.71	13.53	645.18	-	-	645.18
	10/04/2006	658.71	16.50	642.21	-	-	642.21
	05/25/2007	658.71	13.06	645.65	-	-	645.65
3805-P4	12/04/2002	658.21	18.45	639.76	-	-	639.76
	01/03/2003	658.21	18.09	640.12	-	-	640.12
	02/03/2003	658.21	18.16	640.05	-	-	640.05
	09/16/2004	658.21	14.84	643.37	-	-	643.37
	04/20/2005	658.21	13.36	644.85	-	-	644.85
	04/26/2006	658.21	12.89	645.32	-	-	645.32
	10/04/2006	658.21	15.84	642.37	-	-	642.37
	05/25/2007	658.21	12.48	645.73	-	-	645.73
3805-P5	12/04/2002	657.94	16.74	641.20	16.50	0.24	641.38
	01/03/2003	657.94	16.09	641.85	-	-	641.85
	02/03/2003	657.94	16.23	641.71	16.21	0.02	641.73
Well Decommissioned During Source Area Construction							
3805-P7	12/04/2002	660.08	19.85	640.23	-	-	640.23
	01/03/2003	660.08	19.54	640.54	-	-	640.54
	02/03/2003	660.08	21.90	638.18	-	-	638.18
	09/16/2004	660.08	16.34	643.74	-	-	643.74
	04/20/2005	660.08	15.15	644.93	-	-	644.93
	04/26/2006	660.08	14.38	645.70	-	-	645.70
	10/04/2006	660.08	17.33	642.75	-	-	642.75
	05/25/2007	660.08	14.12	645.96	-	-	645.96
3805-PZ1	12/04/2002	659.19	21.62	637.57	-	-	637.57
	01/03/2003	659.19	21.31	637.88	-	-	637.88
	02/03/2003	659.19	21.31	637.88	-	-	637.88
	09/16/2004	659.19	18.52	640.67	-	-	640.67
	04/20/2005	659.19	17.17	642.02	-	-	642.02
	04/26/2006	659.19	16.76	642.43	-	-	642.43
	10/04/2006	659.19	19.24	639.95	-	-	639.95
	05/25/2007	659.19	16.41	642.78	-	-	642.78
3805-PZ2D	09/16/2004	NR	19.21	-	-	-	-
	04/20/2005	NR	17.75	-	-	-	-
	04/26/2006	NR	17.28	-	-	-	-
	10/04/2006	NR	18.90	-	-	-	-
	05/25/2007	NR	16.75	-	-	-	-

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
3805-PZ2I	09/16/2004	NR	18.99	-	-	-	-
	04/20/2005	NR	17.50	-	-	-	-
	04/26/2006	NR	17.08	-	-	-	-
	10/04/2006	NR	18.56	-	-	-	-
	05/25/2007	NR	16.55	-	-	-	-
3805-PZ2S	12/04/2002	657.96	21.88	636.08	-	-	636.08
	01/03/2003	657.96	21.66	636.30	-	-	636.30
	02/03/2003	657.96	21.65	636.31	-	-	636.31
	09/16/2004	657.96	19.21	638.75	-	-	638.75
	04/20/2005	657.96	17.66	640.30	-	-	640.30
	04/26/2006	657.96	17.26	640.70	-	-	640.70
	10/04/2006	657.96	18.95	639.01	-	-	639.01
	05/25/2007	657.96	16.71	641.25	-	-	641.25
3805-PZ3	12/04/2002	655.86	NR	-	NR	-	-
	01/03/2003	655.86	23.11	632.75	-	-	632.75
	02/03/2003	655.86	23.13	632.73	-	-	632.73
	09/16/2004	655.86	20.78	635.08	-	-	635.08
	04/20/2005	655.86	19.26	636.60	-	-	636.60
	04/26/2006	655.86	19.22	636.64	-	-	636.64
	10/04/2006	655.86	21.38	634.48	-	-	634.48
	05/25/2007	655.86	18.83	637.03	-	-	637.03
3805-PZ7	12/04/2002	659.01	22.24	636.77	-	-	636.77
	01/03/2003	659.01	21.91	637.10	-	-	637.10
	02/03/2003	659.01	NR	-	NR	-	-
	09/16/2004	659.01	19.82	639.19	-	-	639.19
	04/20/2005	659.01	18.83	640.18	-	-	640.18
	04/26/2006	659.01	17.97	641.04	-	-	641.04
	10/04/2006	659.01	20.26	638.75	-	-	638.75
	05/25/2007	659.01	17.60	641.41	-	-	641.41
3805-PZ9	12/04/2002	659.08	NR	-	NR	-	-
	01/03/2003	659.08	15.63	643.45	14.80	0.83	644.08
	02/03/2003	659.08	15.78	643.30	15.22	0.56	643.73
	09/16/2004	659.08	14.41	644.67	11.93	2.48	646.55
	04/20/2005	659.08	12.04	647.04	10.69	1.35	648.07
	04/26/2006	659.08	11.26	647.82	10.16	1.10	648.66
	10/04/2006	659.08	14.29	644.79	13.05	1.24	645.73
	05/25/2007	659.08	10.51	648.57	9.95	0.56	649.00
	09/18/2008	659.08	13.14	645.94	-	-	645.94
	10/23/2008	659.08	13.56	645.52	-	-	645.52
	12/31/2008	659.08	12.89	646.19	-	-	646.19
	01/28/2009	659.08	11.99	647.09	-	-	647.09
	02/25/2009	659.08	11.76	647.32	-	-	647.32
	03/27/2009	659.08	11.79	647.29	-	-	647.29
	04/29/2009	659.08	12.23	646.85	Sheen	-	646.85
05/20/2009	659.08	12.87	646.21	-	-	646.21	
06/25/2009	659.08	11.94	647.14	-	-	647.14	

**Table D-1
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Areas 3805 and 1995
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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/21/2009	659.08	11.99	647.09	-	-	647.09
	08/25/2009	659.08	12.70	646.38	-	-	646.38
	09/16/2009	659.08	13.55	645.53	-	-	645.53
	10/14/2009	659.08	12.26	646.82	-	-	646.82
	11/10/2009	659.08	12.31	646.77	-	-	646.77
	12/14/2009	659.08	12.37	646.71	-	-	646.71
	01/11/2010	659.08	12.52	646.56	-	-	646.56
	02/10/2010	659.08	12.45	646.63	-	-	646.63
	03/10/2010	659.08	12.51	646.57	-	-	646.57
	04/14/2010	659.08	12.56	646.52	-	-	646.52
	05/12/2010	659.08	12.63	646.45	-	-	646.45
	06/17/2010	659.08	13.17	645.91	-	-	645.91
	07/14/2010	659.08	13.27	645.81	-	-	645.81
	08/09/2010	659.08	13.31	645.77	-	-	645.77
	09/16/2010	659.08	16.44	642.64	-	-	642.64
	10/13/2010	659.08	13.36	645.72	-	-	645.72
	11/16/2010	659.08	13.38	645.70	-	-	645.70
	12/16/2010	659.08	13.56	645.52	-	-	645.52
	01/13/2011	659.08	14.86	644.22	-	-	644.22
	03/14/2011	659.08	13.94	645.14	-	-	645.14
	04/12/2011	659.08	14.93	644.15	-	-	644.15
	05/19/2011	659.08	13.21	645.87	-	-	645.87
	06/20/2011	659.08	13.61	645.47	-	-	645.47
	07/13/2011	659.08	13.98	645.10	-	-	645.10
	08/11/2011	659.08	14.01	645.07	-	-	645.07
	09/29/2011	659.08	13.36	645.72	-	-	645.72
	10/19/2011	659.08	15.25	643.83	-	-	643.83
	11/17/2011	659.08	15.39	643.69	-	-	643.69
	12/07/2011	659.08	15.71	643.37	-	-	643.37
	01/09/2012	659.08	15.45	643.63	-	-	643.63
3805-PZ10	12/04/2002	659.63	NR	-	NR	-	-
	01/03/2003	659.63	16.55	643.08	15.49	1.06	643.89
	02/03/2003	659.63	17.30	642.33	15.71	1.59	643.54
	09/16/2004	659.63	13.74	645.89	13.22	0.52	646.29
	04/20/2005	659.63	11.29	648.34	11.22	0.07	648.39
	04/26/2006	659.63	12.91	646.72	10.82	2.09	648.31
	10/04/2006	659.63	14.96	644.67	13.82	1.14	645.54
	05/25/2007	659.63	13.16	646.47	10.58	2.58	648.43
	09/18/2008	659.63	16.05	643.58	13.05	3.00	645.86
	10/23/2008	659.63	16.25	643.38	13.28	2.97	645.64
	12/31/2008	659.63	12.75	646.88	9.85	2.90	649.08
	01/28/2009	659.63	13.86	645.77	10.96	2.90	647.97
	02/25/2009	659.63	13.55	646.08	10.63	2.92	648.30
	03/27/2009	659.63	11.95	647.68	11.88	0.07	647.73
	04/29/2009	659.63	11.49	648.14	-	-	648.14
	05/20/2009	659.63	11.48	648.15	-	-	648.15
	06/25/2009	659.63	11.31	648.32	-	-	648.32
	07/21/2009	659.63	12.73	646.90	-	-	646.90
	08/25/2009	659.63	12.70	646.93	-	-	646.93

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/16/2009	659.63	12.23	647.40	-	-	647.40
	10/14/2009	659.63	14.23	645.40	-	-	645.40
	11/10/2009	659.63	14.84	644.79	13.82	1.02	645.81
	12/14/2009	659.63	15.39	644.24	-	-	644.24
	01/11/2010	659.63	15.54	644.09	-	-	644.09
	02/10/2010	659.63	15.58	644.05	-	-	644.05
	03/10/2010	659.63	16.29	643.34	-	-	643.34
	04/14/2010	659.63	15.78	643.85	-	-	643.85
	05/12/2010	659.63	16.41	643.22	-	-	643.22
	06/17/2010	659.63	16.71	642.92	-	-	642.92
	07/14/2010	659.63	16.86	642.77	-	-	642.77
	08/09/2010	659.63	16.51	643.12	-	-	643.12
	09/16/2010	659.63	13.32	646.31	-	-	646.31
	10/13/2010	659.63	14.84	644.79	-	-	644.79
	11/16/2010	659.63	15.29	644.34	-	-	644.34
	12/16/2010	659.63	14.58	645.05	-	-	645.05
	01/13/2011	659.63	13.53	646.10	-	-	646.10
	03/14/2011	659.63	13.61	646.02	-	-	646.02
	04/12/2011	659.63	13.52	646.11	-	-	646.11
	05/19/2011	659.63	13.42	646.21	-	-	646.21
	06/20/2011	659.63	13.39	646.24	-	-	646.24
	07/13/2011	659.63	13.37	646.26	-	-	646.26
	08/11/2011	659.63	13.42	646.21	-	-	646.21
09/29/2011	659.63	15.28	644.35	-	-	644.35	
10/19/2011	659.63	12.94	646.69	-	-	646.69	
11/17/2011	659.63	12.37	647.26	-	-	647.26	
12/07/2011	659.63	12.68	646.95	-	-	646.95	
01/09/2012	659.63	12.67	646.96	-	-	646.96	
3805-PZ11	12/04/2002	655.38	23.40	631.98	-	-	631.98
	01/03/2003	655.38	23.04	632.34	-	-	632.34
	02/03/2003	655.38	23.05	632.33	-	-	632.33
	09/16/2004	655.38	20.84	634.54	-	-	634.54
	04/20/2005	655.38	19.47	635.91	-	-	635.91
	04/26/2006	655.38	19.26	636.12	-	-	636.12
	10/04/2006	655.38	21.62	633.76	-	-	633.76
	05/25/2007	655.38	18.92	636.46	-	-	636.46
3805-PZ12	04/20/2005	NR	24.63	-	-	-	-
	04/26/2006	NR	24.10	-	-	-	-
	10/04/2006	NR	26.14	-	-	-	-
	05/25/2007	NR	24.06	-	-	-	-
3805-PZ12D	09/16/2004	NR	25.90	-	-	-	-
Well Decommissioned During Source Area Construction							
3805-PZ12S	12/04/2002	655.50	27.30	628.20	26.52	0.78	628.79
	01/03/2003	655.50	27.25	628.25	26.15	1.10	629.09
	02/03/2003	655.50	26.37	629.13	26.18	0.19	629.27
	09/16/2004	655.50	24.83	630.67	-	-	630.67
	04/20/2005	655.50	23.58	631.92	-	-	631.92

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Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/26/2006	655.50	23.30	632.20	-	-	632.20
	10/04/2006	655.50	25.30	630.20	-	-	630.20
	05/25/2007	655.50	22.95	632.55	-	-	632.55
3805-PZ13D	09/16/2004	NR	23.70	-	-	-	-
	04/20/2005	NR	22.93	-	-	-	-
	04/26/2006	NR	23.21	-	-	-	-
	10/04/2006	NR	24.12	-	-	-	-
	05/25/2007	NR	22.13	-	-	-	-
3805-PZ13I	09/16/2004	NR	25.07	-	-	-	-
	04/20/2005	NR	25.00	-	-	-	-
	04/26/2006	NR	24.30	-	-	-	-
	10/04/2006	NR	26.18	-	-	-	-
	05/25/2007	NR	24.26	-	-	-	-
3805-PZ13S	09/16/2004	NR	23.26	-	-	-	-
	04/20/2005	NR	24.44	-	-	-	-
	04/26/2006	NR	21.84	-	-	-	-
	10/04/2006	NR	23.63	-	-	-	-
	05/25/2007	NR	21.73	-	-	-	-
3805-PZ14	12/04/2002	660.39	21.28	639.11	21.08	0.20	639.26
	01/03/2003	660.39	20.98	639.41	20.92	0.06	639.46
	02/03/2003	660.39	21.02	639.37	20.94	0.08	639.43
	09/16/2004	660.39	17.92	642.47	-	-	642.47
	04/20/2005	660.39	16.87	643.52	-	-	643.52
	04/26/2006	660.39	15.91	644.48	-	-	644.48
	10/04/2006	660.39	17.78	642.61	-	-	642.61
	05/25/2007	660.39	15.60	644.79	-	-	644.79
3805-PZ15	12/04/2002	657.61	19.77	637.84	19.34	0.43	638.17
	01/03/2003	657.61	19.61	638.00	19.40	0.21	638.16
	02/03/2003	657.61	19.68	637.93	19.54	0.14	638.04
	09/16/2004	657.61	16.36	641.25	-	-	641.25
	04/20/2005	657.61	15.11	642.50	-	-	642.50
	04/26/2006	657.61	14.44	643.17	-	-	643.17
	10/04/2006	657.61	17.60	640.01	-	-	640.01
	05/25/2007	657.61	13.86	643.75	-	-	643.75
3805-RW1	12/04/2002	658.55	18.39	640.16	18.37	0.02	640.18
	01/03/2003	658.55	17.93	640.62	-	-	640.62
	02/03/2003	658.55	18.05	640.50	-	-	640.50
	09/16/2004	658.55	15.00	643.55	-	-	643.55
	04/20/2005	658.55	13.52	645.03	-	-	645.03
	04/26/2006	658.55	13.04	645.51	-	-	645.51
	10/04/2006	658.55	16.00	642.55	-	-	642.55
	05/25/2007	658.55	12.64	645.91	-	-	645.91
3805-RW2	12/04/2002	658.44	NR	-	NR	-	-

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Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/03/2003	658.44	14.80	643.64	14.39	0.41	643.95
	02/03/2003	658.44	15.45	642.99	14.65	0.80	643.60
	09/16/2004	658.44	12.98	645.46	12.98	0.00	645.46
	04/20/2005	658.44	10.21	648.23	10.06	0.15	648.34
	04/26/2006	658.44	10.06	648.38	10.01	0.05	648.42
	10/04/2006	658.44	12.44	646.00	-	-	646.00
	05/25/2007	658.44	9.85	648.59	9.75	0.10	648.67
3805-RW3	12/04/2002	656.23	23.98	632.25	-	-	632.25
	01/03/2003	656.23	23.66	632.57	-	-	632.57
	02/03/2003	656.23	23.65	632.58	-	-	632.58
	09/16/2004	656.23	21.35	634.88	-	-	634.88
	04/20/2005	656.23	21.12	635.11	-	-	635.11
	04/26/2006	656.23	19.79	636.44	-	-	636.44
	10/04/2006	656.23	22.07	634.16	-	-	634.16
	05/25/2007	656.23	19.41	636.82	-	-	636.82
3805-RW5	12/04/2002	658.31	19.76	638.55	-	-	638.55
	01/03/2003	658.31	25.17	633.14	-	-	633.14
	02/03/2003	658.31	25.68	632.63	25.40	0.28	632.84
	09/16/2004	658.31	16.99	641.32	16.41	0.58	641.76
	04/20/2005	658.31	15.48	642.83	15.46	0.02	642.85
	04/26/2006	658.31	14.40	643.91	-	-	643.91
	10/04/2006	658.31	17.60	640.71	-	-	640.71
	05/25/2007	658.31	13.87	644.44	-	-	644.44
3805-RW6	12/04/2002	658.93	21.53	637.40	-	-	637.40
	01/03/2003	658.93	21.22	637.71	-	-	637.71
	02/03/2003	658.93	21.24	637.69	-	-	637.69
	09/16/2004	658.93	18.67	640.26	-	-	640.26
	04/20/2005	658.93	17.62	641.31	-	-	641.31
	04/26/2006	658.93	16.79	642.14	-	-	642.14
	10/04/2006	658.93	19.12	639.81	-	-	639.81
	05/25/2007	658.93	16.40	642.53	-	-	642.53
3805-RW7	12/04/2002	659.01	19.08	639.93	19.05	0.03	639.95
	01/03/2003	659.01	18.90	640.11	18.60	0.30	640.34
	02/03/2003	659.01	18.74	640.27	18.72	0.02	640.29
	09/16/2004	659.01	15.51	643.50	-	-	643.50
	04/20/2005	659.01	13.85	645.16	-	-	645.16
	04/26/2006	659.01	13.55	645.46	-	-	645.46
	10/04/2006	659.01	16.45	642.56	-	-	642.56
	05/25/2007	659.01	13.05	645.96	-	-	645.96
3805-RW8	12/04/2002	657.55	23.56	633.99	23.43	0.13	634.09
	01/03/2003	657.55	23.29	634.26	23.27	0.02	634.28
	02/03/2003	657.55	23.31	634.24	-	-	634.24
	09/16/2004	657.55	20.06	637.49	-	-	637.49
	04/20/2005	657.55	19.20	638.35	-	-	638.35
	04/26/2006	657.55	19.31	638.24	-	-	638.24

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Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/04/2006	657.55	20.15	637.40	-	-	637.40
	05/25/2007	657.55	18.73	638.82	-	-	638.82
3805-RW9	12/04/2002	656.33	20.78	635.55	20.25	0.53	635.95
	01/03/2003	656.33	27.78	628.55	26.73	1.05	629.35
	02/03/2003	656.33	31.10	625.23	30.21	0.89	625.91
	09/16/2004	656.33	17.82	638.51	17.42	0.40	638.81
	04/20/2005	656.33	15.80	640.53	-	-	640.53
	04/26/2006	656.33	15.72	640.61	-	-	640.61
	10/04/2006	656.33	17.31	639.02	-	-	639.02
	05/25/2007	656.33	15.13	641.20	-	-	641.20
3805-RW10	12/04/2002	657.51	22.46	635.05	22.36	0.10	635.13
	01/03/2003	657.51	22.13	635.38	-	-	635.38
	02/03/2003	657.51	22.11	635.40	-	-	635.40
	09/16/2004	657.51	20.09	637.42	20.08	0.01	637.43
	04/20/2005	657.51	18.35	639.16	-	-	639.16
	04/26/2006	657.51	18.18	639.33	-	-	639.33
	10/04/2006	657.51	19.75	637.76	-	-	637.76
	05/25/2007	657.51	17.50	640.01	-	-	640.01
3805-RW11	12/04/2002	658.74	21.81	636.93	-	-	636.93
	01/03/2003	658.74	26.02	632.72	26.00	0.02	632.74
	02/03/2003	658.74	26.05	632.69	-	-	632.69
	09/16/2004	658.74	18.75	639.99	-	-	639.99
	04/20/2005	658.74	17.55	641.19	-	-	641.19
	04/26/2006	658.74	17.01	641.73	-	-	641.73
	10/04/2006	658.74	19.05	639.69	-	-	639.69
	05/25/2007	658.74	16.45	642.29	-	-	642.29
3805-RW12	12/04/2002	656.60	20.76	635.84	-	-	635.84
	01/03/2003	656.60	20.60	636.00	-	-	636.00
	02/03/2003	656.60	20.70	635.90	-	-	635.90
	09/16/2004	656.60	17.51	639.09	-	-	639.09
	04/20/2005	656.60	16.54	640.06	-	-	640.06
	04/26/2006	656.60	15.77	640.83	-	-	640.83
	10/04/2006	656.60	19.23	637.37	-	-	637.37
	05/25/2007	656.60	15.39	641.21	-	-	641.21
3805-RW13	12/04/2002	658.30	16.54	641.76	-	-	641.76
	01/03/2003	658.30	16.47	641.83	-	-	641.83
	02/03/2003	658.30	16.51	641.79	-	-	641.79
	09/16/2004	658.30	13.73	644.57	-	-	644.57
	04/20/2005	658.30	11.93	646.37	-	-	646.37
	04/26/2006	658.30	11.76	646.54	-	-	646.54
	10/04/2006	658.30	14.65	643.65	-	-	643.65
	05/25/2007	658.30	11.51	646.79	-	-	646.79
1-1M	04/04/2005	652.46	23.60	628.86	-	-	628.86
	05/16/2005	652.46	23.69	628.77	-	-	628.77

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/13/2005	652.46	24.08	628.38	-	-	628.38
	07/11/2005	652.46	24.47	627.99	-	-	627.99
	08/22/2005	652.46	24.91	627.55	-	-	627.55
	10/17/2005	652.46	24.04	628.42	-	-	628.42
	01/09/2006	652.46	23.19	629.27	-	-	629.27
	04/03/2006	652.46	22.40	630.06	-	-	630.06
	05/31/2006	652.46	23.20	629.26	-	-	629.26
	06/12/2006	652.46	NR	-	NR	-	-
	08/02/2006	652.46	23.99	628.47	-	-	628.47
	09/06/2006	652.46	24.37	628.09	-	-	628.09
	11/01/2006	652.46	24.48	627.98	-	-	627.98
	01/09/2007	652.46	23.20	629.26	-	-	629.26
	05/07/2007	652.46	22.29	630.17	-	-	630.17
	07/24/2007	652.46	23.60	628.86	-	-	628.86
	10/16/2007	652.46	24.79	627.67	-	-	627.67
	01/11/2008	652.46	24.00	628.46	-	-	628.46
06/24/2008	652.46	22.35	630.11	-	-	630.11	
1-2M	04/04/2005	650.47	20.83	629.64	-	-	629.64
	05/16/2005	650.47	20.84	629.63	-	-	629.63
	06/13/2005	650.47	21.19	629.28	-	-	629.28
	07/11/2005	650.47	21.52	628.95	-	-	628.95
	08/22/2005	650.47	21.92	628.55	-	-	628.55
	10/17/2005	650.47	21.18	629.29	-	-	629.29
	01/09/2006	650.47	20.53	629.94	-	-	629.94
	04/03/2006	650.47	19.73	630.74	-	-	630.74
	05/31/2006	650.47	20.58	629.89	-	-	629.89
	06/12/2006	650.47	NR	-	NR	-	-
	08/02/2006	650.47	21.10	629.37	-	-	629.37
	09/06/2006	650.47	21.39	629.08	-	-	629.08
	11/01/2006	650.47	21.62	628.85	-	-	628.85
	01/09/2007	650.47	20.39	630.08	-	-	630.08
	05/07/2007	650.47	19.61	630.86	-	-	630.86
	07/24/2007	650.47	20.73	629.74	-	-	629.74
10/16/2007	650.47	21.80	628.67	-	-	628.67	
01/11/2008	650.47	21.15	629.32	-	-	629.32	
2-1M	04/04/2005	652.34	21.00	631.34	-	-	631.34
	05/16/2005	652.34	21.01	631.33	-	-	631.33
	06/13/2005	652.34	21.47	630.87	-	-	630.87
	07/11/2005	652.34	21.89	630.45	-	-	630.45
	08/22/2005	652.34	22.35	629.99	-	-	629.99
	10/17/2005	652.34	21.44	630.90	-	-	630.90
	01/09/2006	652.34	20.25	632.09	-	-	632.09
	04/03/2006	652.34	19.38	632.96	-	-	632.96
	05/31/2006	652.34	20.33	632.01	-	-	632.01
	06/12/2006	652.34	NR	-	NR	-	-
	08/02/2006	652.34	21.21	631.13	-	-	631.13
	09/06/2006	652.34	21.73	630.61	-	-	630.61
	11/01/2006	652.34	21.94	630.40	-	-	630.40

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Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2007	652.34	20.43	631.91	-	-	631.91
	05/07/2007	652.34	19.23	633.11	-	-	633.11
	07/24/2007	652.34	20.89	631.45	-	-	631.45
	10/16/2007	652.34	22.40	629.94	-	-	629.94
	01/11/2008	652.34	21.56	630.78	-	-	630.78
	06/24/2008	652.34	20.60	631.74	-	-	631.74
2-2M	04/04/2005	652.39	22.67	629.72	-	-	629.72
	05/16/2005	652.39	22.67	629.72	-	-	629.72
	06/13/2005	652.39	23.09	629.30	-	-	629.30
	07/11/2005	652.39	23.51	628.88	-	-	628.88
	08/22/2005	652.39	23.98	628.41	-	-	628.41
	10/17/2005	652.39	23.13	629.26	-	-	629.26
	01/09/2006	652.39	22.03	630.36	-	-	630.36
	04/03/2006	652.39	21.12	631.27	-	-	631.27
	05/31/2006	652.39	22.09	630.30	-	-	630.30
	06/12/2006	652.39	NR	-	NR	-	-
	08/02/2006	652.39	22.93	629.46	-	-	629.46
	09/06/2006	652.39	23.40	628.99	-	-	628.99
	11/01/2006	652.39	23.55	628.84	-	-	628.84
	01/09/2007	652.39	22.13	630.26	-	-	630.26
	05/07/2007	652.39	20.91	631.48	-	-	631.48
	07/24/2007	652.39	22.54	629.85	-	-	629.85
	10/16/2007	652.39	23.91	628.48	-	-	628.48
	01/11/2008	652.39	23.12	629.27	-	-	629.27
	06/24/2008	652.39	22.30	630.09	-	-	630.09
2-3M	04/04/2005	653.05	21.14	631.91	-	-	631.91
	05/16/2005	653.05	21.21	631.84	-	-	631.84
	06/13/2005	653.05	21.69	631.36	-	-	631.36
	07/11/2005	653.05	22.10	630.95	-	-	630.95
	08/22/2005	653.05	22.57	630.48	-	-	630.48
	10/17/2005	653.05	21.59	631.46	-	-	631.46
	01/09/2006	653.05	20.61	632.44	-	-	632.44
	04/03/2006	653.05	19.62	633.43	-	-	633.43
	05/31/2006	653.05	20.51	632.54	-	-	632.54
	06/12/2006	653.05	NR	-	NR	-	-
	08/02/2006	653.05	21.43	631.62	-	-	631.62
	09/06/2006	653.05	21.91	631.14	-	-	631.14
	11/01/2006	653.05	22.15	630.90	-	-	630.90
	01/09/2007	653.05	20.60	632.45	-	-	632.45
	05/07/2007	653.05	19.51	633.54	-	-	633.54
	07/24/2007	653.05	21.07	631.98	-	-	631.98
	10/16/2007	653.05	22.54	630.51	-	-	630.51
	01/11/2008	653.05	21.71	631.34	-	-	631.34
	06/24/2008	653.05	20.65	632.40	-	-	632.40
2-4M	04/04/2005	652.92	22.71	630.21	-	-	630.21
	05/16/2005	652.92	22.74	630.18	-	-	630.18
	06/13/2005	652.92	23.14	629.78	-	-	629.78

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/11/2005	652.92	23.52	629.40	-	-	629.40
	08/22/2005	652.92	23.96	628.96	-	-	628.96
	10/17/2005	652.92	23.10	629.82	-	-	629.82
	01/09/2006	652.92	22.32	630.60	-	-	630.60
	04/03/2006	652.92	21.37	631.55	-	-	631.55
	05/31/2006	652.92	22.20	630.72	-	-	630.72
	06/12/2006	652.92	NR	-	NR	-	-
	08/02/2006	652.92	22.99	629.93	-	-	629.93
	09/06/2006	652.92	23.39	629.53	-	-	629.53
	11/01/2006	652.92	23.61	629.31	-	-	629.31
	01/09/2007	652.92	22.23	630.69	-	-	630.69
	05/07/2007	652.92	21.22	631.70	-	-	631.70
	07/24/2007	652.92	22.63	630.29	-	-	630.29
	10/16/2007	652.92	23.89	629.03	-	-	629.03
	01/11/2008	652.92	23.14	629.78	-	-	629.78
	06/24/2008	652.92	22.45	630.47	-	-	630.47
2-5M	04/04/2005	653.87	19.85	634.02	-	-	634.02
	05/16/2005	653.87	19.78	634.09	-	-	634.09
	06/13/2005	653.87	20.33	633.54	-	-	633.54
	07/11/2005	653.87	20.82	633.05	-	-	633.05
	08/22/2005	653.87	21.56	632.31	-	-	632.31
	10/17/2005	653.87	19.83	634.04	-	-	634.04
	01/09/2006	653.87	19.59	634.28	-	-	634.28
	04/03/2006	653.87	18.28	635.59	18.26	0.02	635.61
	05/31/2006	653.87	16.55	637.32	-	-	637.32
	06/12/2006	653.87	NR	-	NR	-	-
	08/02/2006	653.87	20.61	633.26	-	-	633.26
	09/06/2006	653.87	21.62	632.25	-	-	632.25
	11/01/2006	653.87	21.78	632.09	-	-	632.09
	01/09/2007	653.87	19.22	634.65	-	-	634.65
	05/07/2007	653.87	19.42	634.45	-	-	634.45
	07/24/2007	653.87	20.13	633.74	-	-	633.74
	10/16/2007	653.87	21.74	632.13	-	-	632.13
	01/11/2008	653.87	20.05	633.82	-	-	633.82
	06/24/2008	653.87	19.35	634.52	-	-	634.52
2-6M	04/04/2005	651.57	20.96	630.61	-	-	630.61
	05/16/2005	651.57	20.99	630.58	-	-	630.58
	06/13/2005	651.57	21.40	630.17	-	-	630.17
	07/11/2005	651.57	21.75	629.82	-	-	629.82
	08/22/2005	651.57	22.17	629.40	-	-	629.40
	10/17/2005	651.57	21.36	630.21	-	-	630.21
	01/09/2006	651.57	20.74	630.83	-	-	630.83
	04/03/2006	651.57	19.74	631.83	-	-	631.83
	05/31/2006	651.57	20.51	631.06	-	-	631.06
	06/12/2006	651.57	NR	-	NR	-	-
	08/02/2006	651.57	21.26	630.31	-	-	630.31
	09/06/2006	651.57	21.61	629.96	-	-	629.96
	11/01/2006	651.57	21.89	629.68	-	-	629.68

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2007	651.57	20.47	631.10	-	-	631.10
	05/07/2007	651.57	19.52	632.05	-	-	632.05
	07/24/2007	651.57	20.81	630.76	-	-	630.76
	10/16/2007	651.57	22.12	629.45	-	-	629.45
	01/11/2008	651.57	21.40	630.17	-	-	630.17
	06/24/2008	651.57	20.85	630.72	-	-	630.72
2-7M	04/04/2005	652.90	18.33	634.57	-	-	634.57
	05/16/2005	652.90	18.25	634.65	-	-	634.65
	06/13/2005	652.90	19.30	633.60	-	-	633.60
	07/11/2005	652.90	19.85	633.05	-	-	633.05
	08/22/2005	652.90	20.15	632.75	-	-	632.75
	10/17/2005	652.90	19.02	633.88	-	-	633.88
	01/09/2006	652.90	17.60	635.30	-	-	635.30
	04/03/2006	652.90	16.79	636.11	-	-	636.11
	05/31/2006	652.90	17.65	635.25	-	-	635.25
	06/12/2006	652.90	NR	-	NR	-	-
	08/02/2006	652.90	18.47	634.43	-	-	634.43
	09/06/2006	652.90	19.13	633.77	-	-	633.77
	11/01/2006	652.90	19.54	633.36	-	-	633.36
	01/09/2007	652.90	17.79	635.11	-	-	635.11
	05/07/2007	652.90	16.86	636.04	-	-	636.04
	07/24/2007	652.90	18.27	634.63	-	-	634.63
	10/16/2007	652.90	19.66	633.24	-	-	633.24
	01/11/2008	652.90	18.56	634.34	-	-	634.34
	06/24/2008	652.90	17.90	635.00	-	-	635.00
2-8M	04/04/2005	651.28	19.04	632.24	-	-	632.24
	05/16/2005	651.28	19.02	632.26	-	-	632.26
	06/13/2005	651.28	19.42	631.86	-	-	631.86
	07/11/2005	651.28	19.86	631.42	-	-	631.42
	08/22/2005	651.28	20.41	630.87	-	-	630.87
	10/17/2005	651.28	19.46	631.82	-	-	631.82
	01/09/2006	651.28	18.48	632.80	-	-	632.80
	04/03/2006	651.28	17.56	633.72	-	-	633.72
	05/31/2006	651.28	18.39	632.89	-	-	632.89
	06/12/2006	651.28	NR	-	NR	-	-
	08/02/2006	651.28	19.31	631.97	-	-	631.97
	09/06/2006	651.28	19.81	631.47	-	-	631.47
	11/01/2006	651.28	20.23	631.05	-	-	631.05
	01/09/2007	651.28	18.49	632.79	-	-	632.79
	05/07/2007	651.28	17.56	633.72	-	-	633.72
	07/24/2007	651.28	18.85	632.43	-	-	632.43
	10/16/2007	651.28	20.62	630.66	-	-	630.66
	01/11/2008	651.28	19.40	631.88	-	-	631.88
	06/24/2008	651.28	19.05	632.23	Sheen	-	632.23
3-1M	04/04/2005	651.96	17.13	634.83	-	-	634.83
	05/16/2005	651.96	17.43	634.53	-	-	634.53
	06/13/2005	651.96	17.93	634.03	-	-	634.03

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/11/2005	651.96	18.38	633.58	-	-	633.58
	08/22/2005	651.96	18.84	633.12	-	-	633.12
	10/17/2005	651.96	17.53	634.43	-	-	634.43
	01/09/2006	651.96	15.30	636.66	-	-	636.66
	04/03/2006	651.96	15.48	636.48	-	-	636.48
	05/31/2006	651.96	16.53	635.43	-	-	635.43
	06/12/2006	651.96	NR	-	NR	-	-
	08/02/2006	651.96	NR	-	NR	-	-
	09/06/2006	651.96	18.06	633.90	-	-	633.90
	11/01/2006	651.96	18.31	633.65	-	-	633.65
	01/09/2007	651.96	16.68	635.28	-	-	635.28
	05/07/2007	651.96	15.37	636.59	-	-	636.59
	07/24/2007	651.96	17.49	634.47	-	-	634.47
	10/16/2007	651.96	18.89	633.07	-	-	633.07
	01/11/2008	651.96	17.74	634.22	-	-	634.22
	06/23/2008	651.96	16.56	635.40	-	-	635.40
	09/18/2008	651.96	17.10	634.86	-	-	634.86
	10/23/2008	651.96	17.37	634.59	-	-	634.59
	12/31/2008	651.96	14.30	637.66	-	-	637.66
	01/28/2009	651.96	14.83	637.13	-	-	637.13
	02/25/2009	651.96	15.03	636.93	-	-	636.93
	03/27/2009	651.96	15.15	636.81	-	-	636.81
	04/29/2009	651.96	15.28	636.68	-	-	636.68
	05/20/2009	651.96	15.48	636.48	-	-	636.48
	06/25/2009	651.96	15.16	636.80	-	-	636.80
	07/21/2009	651.96	15.82	636.14	-	-	636.14
	08/25/2009	651.96	16.55	635.41	-	-	635.41
	09/16/2009	651.96	19.01	632.95	-	-	632.95
	10/14/2009	651.96	17.43	634.53	-	-	634.53
	11/10/2009	651.96	17.83	634.13	-	-	634.13
	12/14/2009	651.96	18.01	633.95	-	-	633.95
	01/11/2010	651.96	18.16	633.80	-	-	633.80
	02/10/2010	651.96	17.21	634.75	-	-	634.75
	03/10/2010	651.96	18.51	633.45	-	-	633.45
	04/14/2010	651.96	18.13	633.83	-	-	633.83
	05/12/2010	651.96	18.63	633.33	-	-	633.33
	06/17/2010	651.96	19.06	632.90	-	-	632.90
	07/14/2010	651.96	19.28	632.68	-	-	632.68
	08/09/2010	651.96	19.23	632.73	-	-	632.73
	09/16/2010	651.96	19.23	632.73	-	-	632.73
	10/13/2010	651.96	18.08	633.88	-	-	633.88
	11/16/2010	651.96	17.71	634.25	-	-	634.25
	12/16/2010	651.96	17.39	634.57	-	-	634.57
	01/13/2011	651.96	17.28	634.68	-	-	634.68
	03/14/2011	651.96	16.22	635.74	-	-	635.74
	04/12/2011	651.96	16.61	635.35	-	-	635.35
	05/19/2011	651.96	15.68	636.28	-	-	636.28
	06/20/2011	651.96	16.01	635.95	-	-	635.95
	07/13/2011	651.96	16.38	635.58	-	-	635.58
	08/11/2011	651.96	16.37	635.59	-	-	635.59

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/29/2011	651.96	17.71	634.25	-	-	634.25
	10/19/2011	651.96	18.02	633.94	-	-	633.94
	11/17/2011	651.96	18.06	633.90	-	-	633.90
	12/07/2011	651.96	18.25	633.71	-	-	633.71
	01/09/2012	651.96	18.04	633.92	-	-	633.92
3-2M	04/04/2005	652.54	16.84	635.70	-	-	635.70
	05/16/2005	652.54	17.37	635.17	-	-	635.17
	06/13/2005	652.54	17.84	634.70	-	-	634.70
	07/11/2005	652.54	18.26	634.28	-	-	634.28
	08/22/2005	652.54	18.75	633.79	-	-	633.79
	10/17/2005	652.54	17.31	635.23	-	-	635.23
	01/09/2006	652.54	16.09	636.45	-	-	636.45
	04/03/2006	652.54	15.21	637.33	-	-	637.33
	05/31/2006	652.54	16.23	636.31	-	-	636.31
	06/12/2006	652.54	NR	-	NR	-	-
	08/02/2006	652.54	NR	-	NR	-	-
	09/06/2006	652.54	17.82	634.72	-	-	634.72
	11/01/2006	652.54	18.23	634.31	-	-	634.31
	01/09/2007	652.54	16.46	636.08	-	-	636.08
	05/07/2007	652.54	15.15	637.39	-	-	637.39
	07/24/2007	652.54	17.60	634.94	-	-	634.94
	10/16/2007	652.54	18.88	633.66	-	-	633.66
	01/11/2008	652.54	15.55	636.99	-	-	636.99
	06/23/2008	652.54	16.61	635.93	-	-	635.93
3-3M	04/04/2005	653.49	16.77	636.72	-	-	636.72
	05/16/2005	653.49	17.19	636.30	-	-	636.30
	06/13/2005	653.49	17.65	635.84	-	-	635.84
	07/11/2005	653.49	18.00	635.49	-	-	635.49
	08/22/2005	653.49	18.53	634.96	-	-	634.96
	10/17/2005	653.49	16.90	636.59	-	-	636.59
	01/09/2006	653.49	15.77	637.72	-	-	637.72
	04/03/2006	653.49	15.03	638.46	-	-	638.46
	05/31/2006	653.49	15.98	637.51	-	-	637.51
	06/12/2006	653.49	NR	-	NR	-	-
	08/02/2006	653.49	NR	-	NR	-	-
	09/06/2006	653.49	17.43	636.06	-	-	636.06
	11/01/2006	653.49	18.21	635.28	-	-	635.28
	01/09/2007	653.49	16.45	637.04	-	-	637.04
	05/07/2007	653.49	15.21	638.28	-	-	638.28
	07/24/2007	653.49	17.46	636.03	-	-	636.03
	10/16/2007	653.49	18.54	634.95	-	-	634.95
	01/11/2008	653.49	17.30	636.19	-	-	636.19
	06/23/2008	653.49	16.35	637.14	-	-	637.14
3-4M	04/04/2005	654.29	16.97	637.32	-	-	637.32
	05/16/2005	654.29	17.30	636.99	-	-	636.99
	06/13/2005	654.29	17.74	636.55	-	-	636.55
	07/11/2005	654.29	18.08	636.21	-	-	636.21

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/22/2005	654.29	18.63	635.66	-	-	635.66
	10/17/2005	654.29	17.12	637.17	-	-	637.17
	01/09/2006	654.29	15.91	638.38	-	-	638.38
	04/03/2006	654.29	15.17	639.12	-	-	639.12
	05/31/2006	654.29	16.10	638.19	-	-	638.19
	06/12/2006	654.29	NR	-	NR	-	-
	08/02/2006	654.29	NR	-	NR	-	-
	09/06/2006	654.29	17.51	636.78	-	-	636.78
	11/01/2006	654.29	18.37	635.92	-	-	635.92
	01/09/2007	654.29	16.72	637.57	-	-	637.57
	05/07/2007	654.29	15.40	638.89	-	-	638.89
	07/24/2007	654.29	17.71	636.58	-	-	636.58
	10/16/2007	654.29	18.64	635.65	-	-	635.65
	01/11/2008	654.29	17.46	636.83	-	-	636.83
	06/23/2008	654.29	16.47	637.82	-	-	637.82
3-5M	04/04/2005	654.56	16.00	638.56	-	-	638.56
	05/16/2005	654.56	16.81	637.75	-	-	637.75
	06/13/2005	654.56	17.21	637.35	-	-	637.35
	07/11/2005	654.56	17.58	636.98	-	-	636.98
	08/22/2005	654.56	18.09	636.47	-	-	636.47
	10/17/2005	654.56	16.73	637.83	-	-	637.83
	01/09/2006	654.56	15.49	639.07	-	-	639.07
	04/03/2006	654.56	14.78	639.78	-	-	639.78
	05/31/2006	654.56	15.68	638.88	-	-	638.88
	06/12/2006	654.56	NR	-	NR	-	-
	08/02/2006	654.56	NR	-	NR	-	-
	09/06/2006	654.56	17.05	637.51	-	-	637.51
	11/01/2006	654.56	17.73	636.83	-	-	636.83
	01/09/2007	654.56	16.18	638.38	-	-	638.38
	05/07/2007	654.56	14.93	639.63	-	-	639.63
	07/24/2007	654.56	16.91	637.65	-	-	637.65
	10/16/2007	654.56	18.07	636.49	-	-	636.49
	01/11/2008	654.56	16.99	637.57	-	-	637.57
	06/23/2008	654.56	15.98	638.58	-	-	638.58
4-1M	04/04/2005	651.76	14.17	637.59	-	-	637.59
	05/16/2005	651.76	14.81	636.95	14.80	0.01	636.96
	06/13/2005	651.76	15.26	636.50	-	-	636.50
	07/11/2005	651.76	15.77	635.99	15.72	0.05	636.03
	08/22/2005	651.76	16.38	635.38	16.31	0.07	635.43
	10/17/2005	651.76	13.96	637.80	-	-	637.80
	01/09/2006	651.76	13.29	638.47	-	-	638.47
	04/03/2006	651.76	12.49	639.27	-	-	639.27
	05/31/2006	651.76	13.55	638.21	-	-	638.21
	06/12/2006	651.76	NR	-	NR	-	-
	08/02/2006	651.76	NR	-	NR	-	-
	09/06/2006	651.76	15.16	636.60	-	-	636.60
	11/01/2006	651.76	15.18	636.58	-	-	636.58
	01/09/2007	651.76	13.65	638.11	-	-	638.11

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/07/2007	651.76	12.32	639.44	-	-	639.44
	07/24/2007	651.76	14.75	637.01	-	-	637.01
	10/16/2007	651.76	16.35	635.41	-	-	635.41
	01/11/2008	651.76	14.43	637.33	-	-	637.33
	06/23/2008	651.76	13.43	638.33	-	-	638.33
	09/18/2008	651.76	12.75	639.01	-	-	639.01
	10/23/2008	651.76	14.33	637.43	-	-	637.43
	12/31/2008	651.76	10.46	641.30	-	-	641.30
	01/28/2009	651.76	11.36	640.40	-	-	640.40
	02/25/2009	651.76	11.82	639.94	-	-	639.94
	03/27/2009	651.76	12.05	639.71	-	-	639.71
	04/29/2009	651.76	12.09	639.67	-	-	639.67
	05/20/2009	651.76	12.16	639.60	Sheen	-	639.60
	06/25/2009	651.76	11.86	639.90	-	-	639.90
	07/21/2009	651.76	12.66	639.10	-	-	639.10
	08/25/2009	651.76	13.30	638.46	-	-	638.46
	09/16/2009	651.76	17.92	633.84	-	-	633.84
	10/14/2009	651.76	14.43	637.33	-	-	637.33
	11/10/2009	651.76	14.76	637.00	-	-	637.00
	12/14/2009	651.76	15.13	636.63	-	-	636.63
	01/11/2010	651.76	15.21	636.55	-	-	636.55
	02/10/2010	651.76	14.87	636.89	-	-	636.89
	03/10/2010	651.76	15.14	636.62	-	-	636.62
	04/14/2010	651.76	15.36	636.40	-	-	636.40
	05/12/2010	651.76	15.96	635.80	-	-	635.80
	06/17/2010	651.76	16.42	635.34	-	-	635.34
	07/14/2010	651.76	16.62	635.14	-	-	635.14
	08/09/2010	651.76	16.34	635.42	-	-	635.42
	09/16/2010	651.76	16.30	635.46	-	-	635.46
	10/13/2010	651.76	14.76	637.00	-	-	637.00
	11/16/2010	651.76	15.01	636.75	-	-	636.75
	12/16/2010	651.76	14.38	637.38	-	-	637.38
	01/13/2011	651.76	14.31	637.45	-	-	637.45
	03/14/2011	651.76	12.26	639.50	-	-	639.50
	04/12/2011	651.76	13.79	637.97	-	-	637.97
	05/19/2011	651.76	12.67	639.09	-	-	639.09
	06/20/2011	651.76	12.99	638.77	-	-	638.77
	07/13/2011	651.76	13.29	638.47	-	-	638.47
	08/11/2011	651.76	13.27	638.49	-	-	638.49
	09/29/2011	651.76	14.83	636.93	-	-	636.93
	10/19/2011	651.76	15.11	636.65	-	-	636.65
	11/17/2011	651.76	15.31	636.45	-	-	636.45
	12/07/2011	651.76	15.43	636.33	-	-	636.33
	01/09/2012	651.76	15.22	636.54	-	-	636.54
4-2M	04/04/2005	652.06	15.54	636.52	-	-	636.52
	05/16/2005	652.06	16.06	636.00	-	-	636.00
	06/13/2005	652.06	16.54	635.52	-	-	635.52
	07/11/2005	652.06	16.90	635.16	-	-	635.16
	08/22/2005	652.06	17.43	634.63	-	-	634.63

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/17/2005	652.06	15.63	636.43	-	-	636.43
	01/09/2006	652.06	14.64	637.42	-	-	637.42
	04/03/2006	652.06	13.83	638.23	13.77	0.06	638.28
	05/31/2006	652.06	14.83	637.23	-	-	637.23
	06/12/2006	652.06	NR	-	NR	-	-
	08/02/2006	652.06	NR	-	NR	-	-
	09/06/2006	652.06	16.40	635.66	-	-	635.66
	11/01/2006	652.06	16.72	635.34	-	-	635.34
	01/09/2007	652.06	15.04	637.02	-	-	637.02
	05/07/2007	652.06	13.76	638.30	-	-	638.30
	07/24/2007	652.06	16.19	635.87	-	-	635.87
	10/16/2007	652.06	17.47	634.59	-	-	634.59
	01/11/2008	652.06	16.07	635.99	-	-	635.99
	06/23/2008	652.06	14.95	637.11	-	-	637.11
4-3M	04/04/2005	652.91	14.73	638.18	-	-	638.18
	05/16/2005	652.91	14.18	638.73	-	-	638.73
	06/13/2005	652.91	15.64	637.27	-	-	637.27
	07/11/2005	652.91	16.02	636.89	-	-	636.89
	08/22/2005	652.91	16.58	636.33	-	-	636.33
	10/17/2005	652.91	14.77	638.14	-	-	638.14
	01/09/2006	652.91	13.70	639.21	-	-	639.21
	04/03/2006	652.91	12.82	640.09	-	-	640.09
	05/31/2006	652.91	13.83	639.08	-	-	639.08
	06/12/2006	652.91	NR	-	NR	-	-
	08/02/2006	652.91	NR	-	NR	-	-
	09/06/2006	652.91	15.45	637.46	-	-	637.46
	11/01/2006	652.91	15.91	637.00	-	-	637.00
	01/09/2007	652.91	14.12	638.79	-	-	638.79
	05/07/2007	652.91	12.82	640.09	-	-	640.09
	07/24/2007	652.91	15.11	637.80	-	-	637.80
	10/16/2007	652.91	16.73	636.18	-	-	636.18
	01/11/2008	652.91	15.30	637.61	-	-	637.61
	06/23/2008	652.91	13.93	638.98	-	-	638.98
4-4M	04/04/2005	652.96	15.51	637.45	-	-	637.45
	05/16/2005	652.96	16.00	636.96	-	-	636.96
	06/13/2005	652.96	16.43	636.53	-	-	636.53
	07/11/2005	652.96	16.80	636.16	-	-	636.16
	08/22/2005	652.96	17.37	635.59	-	-	635.59
	10/17/2005	652.96	15.65	637.31	-	-	637.31
	01/09/2006	652.96	14.54	638.42	-	-	638.42
	04/03/2006	652.96	13.74	639.22	-	-	639.22
	05/31/2006	652.96	14.74	638.22	-	-	638.22
	06/12/2006	652.96	NR	-	NR	-	-
	08/02/2006	652.96	NR	-	NR	-	-
	09/06/2006	652.96	16.24	636.72	-	-	636.72
	11/01/2006	652.96	16.91	636.05	-	-	636.05
	01/09/2007	652.96	15.15	637.81	-	-	637.81
	05/07/2007	652.96	13.86	639.10	-	-	639.10

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/24/2007	652.96	16.20	636.76	-	-	636.76
	10/16/2007	652.96	17.50	635.46	-	-	635.46
	01/11/2008	652.96	16.09	636.87	-	-	636.87
	06/23/2008	652.96	14.98	637.98	-	-	637.98
	09/18/2008	652.96	15.17	637.79	-	-	637.79
	10/23/2008	652.96	15.35	637.61	-	-	637.61
	12/31/2008	652.96	12.55	640.41	-	-	640.41
	01/28/2009	652.96	13.05	639.91	-	-	639.91
	02/25/2009	652.96	13.41	639.55	-	-	639.55
	03/27/2009	652.96	13.52	639.44	-	-	639.44
	04/29/2009	652.96	13.41	639.55	-	-	639.55
	05/20/2009	652.96	13.61	639.35	-	-	639.35
	06/25/2009	652.96	13.16	639.80	-	-	639.80
	07/21/2009	652.96	13.99	638.97	-	-	638.97
	08/25/2009	652.96	13.60	639.36	-	-	639.36
	09/16/2009	652.96	18.25	634.71	-	-	634.71
	10/14/2009	652.96	15.49	637.47	-	-	637.47
	11/10/2009	652.96	15.96	637.00	-	-	637.00
	12/14/2009	652.96	16.21	636.75	-	-	636.75
	01/11/2010	652.96	16.41	636.55	-	-	636.55
	02/10/2010	652.96	16.16	636.80	-	-	636.80
	03/10/2010	652.96	16.77	636.19	-	-	636.19
	04/14/2010	652.96	16.41	636.55	-	-	636.55
	05/12/2010	652.96	16.98	635.98	-	-	635.98
	06/17/2010	652.96	17.42	635.54	-	-	635.54
	07/14/2010	652.96	16.59	636.37	-	-	636.37
	08/09/2010	652.96	16.44	636.52	-	-	636.52
	09/16/2010	652.96	17.31	635.65	-	-	635.65
	10/13/2010	652.96	16.11	636.85	-	-	636.85
	11/16/2010	652.96	16.03	636.93	-	-	636.93
	12/16/2010	652.96	15.59	637.37	-	-	637.37
	01/13/2011	652.96	15.48	637.48	-	-	637.48
	03/14/2011	652.96	14.80	638.16	-	-	638.16
	04/12/2011	652.96	15.41	637.55	-	-	637.55
	05/19/2011	652.96	12.91	640.05	-	-	640.05
	06/20/2011	652.96	14.20	638.76	-	-	638.76
	07/13/2011	652.96	14.61	638.35	-	-	638.35
	08/11/2011	652.96	14.50	638.46	-	-	638.46
	09/29/2011	652.96	15.88	637.08	-	-	637.08
	10/19/2011	652.96	16.21	636.75	-	-	636.75
	11/17/2011	652.96	16.18	636.78	-	-	636.78
	12/07/2011	652.96	16.44	636.52	-	-	636.52
	01/09/2012	652.96	16.26	636.70	-	-	636.70
4-5M	04/04/2005	653.79	14.80	638.99	14.73	0.07	639.04
	05/16/2005	653.79	15.20	638.59	-	-	638.59
	06/13/2005	653.79	15.60	638.19	-	-	638.19
	07/11/2005	653.79	16.03	637.76	-	-	637.76
	08/22/2005	653.79	16.59	637.20	-	-	637.20
	10/17/2005	653.79	14.72	639.07	-	-	639.07

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2006	653.79	13.78	640.01	13.65	0.13	640.11
	04/03/2006	653.79	12.76	641.03	-	-	641.03
	05/31/2006	653.79	13.75	640.04	13.72	0.03	640.06
	06/12/2006	653.79	NR	-	NR	-	-
	08/02/2006	653.79	NR	-	NR	-	-
	09/06/2006	653.79	15.35	638.44	15.28	0.07	638.49
	11/01/2006	653.79	15.82	637.97	-	-	637.97
	01/09/2007	653.79	14.02	639.77	-	-	639.77
	05/07/2007	653.79	12.85	640.94	-	-	640.94
	07/24/2007	653.79	14.69	639.10	-	-	639.10
	10/16/2007	653.79	16.52	637.27	-	-	637.27
	01/11/2008	653.79	14.28	639.51	-	-	639.51
	06/23/2008	653.79	13.78	640.01	-	-	640.01
4-6M	04/04/2005	653.68	15.48	638.20	-	-	638.20
	05/16/2005	653.68	16.02	637.66	-	-	637.66
	06/13/2005	653.68	16.46	637.22	-	-	637.22
	07/11/2005	653.68	16.82	636.86	-	-	636.86
	08/22/2005	653.68	17.37	636.31	-	-	636.31
	10/17/2005	653.68	15.73	637.95	-	-	637.95
	01/09/2006	653.68	14.53	639.15	-	-	639.15
	04/03/2006	653.68	13.69	639.99	-	-	639.99
	05/31/2006	653.68	14.69	638.99	-	-	638.99
	06/12/2006	653.68	NR	-	NR	-	-
	08/02/2006	653.68	NR	-	NR	-	-
	09/06/2006	653.68	16.21	637.47	-	-	637.47
	11/01/2006	653.68	17.00	636.68	-	-	636.68
	01/09/2007	653.68	15.30	638.38	-	-	638.38
	05/07/2007	653.68	13.97	639.71	-	-	639.71
	07/24/2007	653.68	16.29	637.39	-	-	637.39
	10/16/2007	653.68	17.57	636.11	-	-	636.11
	01/11/2008	653.68	16.18	637.50	-	-	637.50
	06/23/2008	653.68	15.06	638.62	-	-	638.62
4-7M	04/04/2005	654.63	15.26	639.37	-	-	639.37
	05/16/2005	654.63	15.60	639.03	-	-	639.03
	06/13/2005	654.63	15.98	638.65	-	-	638.65
	07/11/2005	654.63	16.36	638.27	-	-	638.27
	08/22/2005	654.63	16.90	637.73	-	-	637.73
	10/17/2005	654.63	15.26	639.37	-	-	639.37
	01/09/2006	654.63	14.11	640.52	-	-	640.52
	04/03/2006	654.63	13.30	641.33	-	-	641.33
	05/31/2006	654.63	14.24	640.39	-	-	640.39
	06/12/2006	654.63	NR	-	NR	-	-
	08/02/2006	654.63	NR	-	NR	-	-
	09/06/2006	654.63	15.74	638.89	-	-	638.89
	11/01/2006	654.63	16.43	638.20	-	-	638.20
	01/09/2007	654.63	14.65	639.98	-	-	639.98
	05/07/2007	654.63	13.35	641.28	-	-	641.28
	07/24/2007	654.63	15.51	639.12	-	-	639.12

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/16/2007	654.63	17.02	637.61	-	-	637.61
	01/11/2008	654.63	15.76	638.87	-	-	638.87
	06/23/2008	654.63	14.48	640.15	-	-	640.15
4-8M	04/04/2005	654.69	15.94	638.75	-	-	638.75
	05/16/2005	654.69	16.23	638.46	-	-	638.46
	06/13/2005	654.69	16.63	638.06	-	-	638.06
	07/11/2005	654.69	16.99	637.70	-	-	637.70
	08/22/2005	654.69	17.55	637.14	-	-	637.14
	10/17/2005	654.69	16.05	638.64	-	-	638.64
	01/09/2006	654.69	14.83	639.86	-	-	639.86
	04/03/2006	654.69	14.07	640.62	-	-	640.62
	05/31/2006	654.69	14.98	639.71	-	-	639.71
	06/12/2006	654.69	NR	-	NR	-	-
	08/02/2006	654.69	NR	-	NR	-	-
	09/06/2006	654.69	16.43	638.26	-	-	638.26
	11/01/2006	654.69	17.16	637.53	-	-	637.53
	01/09/2007	654.69	15.53	639.16	-	-	639.16
	05/07/2007	654.69	14.18	640.51	-	-	640.51
	07/24/2007	654.69	16.47	638.22	-	-	638.22
	10/16/2007	654.69	17.64	637.05	-	-	637.05
	01/11/2008	654.69	15.44	639.25	-	-	639.25
	06/23/2008	654.69	15.35	639.34	-	-	639.34
4-9M	04/04/2005	655.35	15.19	640.16	-	-	640.16
	05/16/2005	655.35	15.34	640.01	-	-	640.01
	06/13/2005	655.35	15.70	639.65	-	-	639.65
	07/11/2005	655.35	16.10	639.25	-	-	639.25
	08/22/2005	655.35	16.63	638.72	-	-	638.72
	10/17/2005	655.35	15.07	640.28	-	-	640.28
	01/09/2006	655.35	13.98	641.37	-	-	641.37
	04/03/2006	655.35	13.18	642.17	-	-	642.17
	05/31/2006	655.35	14.10	641.25	-	-	641.25
	06/12/2006	655.35	NR	-	NR	-	-
	08/02/2006	655.35	NR	-	NR	-	-
	09/06/2006	655.35	15.56	639.79	-	-	639.79
	11/01/2006	655.35	16.04	639.31	-	-	639.31
	01/09/2007	655.35	14.35	641.00	-	-	641.00
	05/07/2007	655.35	13.17	642.18	-	-	642.18
	07/24/2007	655.35	14.98	640.37	-	-	640.37
	10/16/2007	655.35	16.63	638.72	-	-	638.72
	01/11/2008	655.35	15.56	639.79	-	-	639.79
	06/23/2008	655.35	14.21	641.14	-	-	641.14
4-10M	04/04/2005	655.53	16.09	639.44	-	-	639.44
	05/16/2005	655.53	16.21	639.32	-	-	639.32
	06/13/2005	655.53	16.59	638.94	-	-	638.94
	07/11/2005	655.53	16.99	638.54	-	-	638.54
	08/22/2005	655.53	17.50	638.03	-	-	638.03
	10/17/2005	655.53	16.17	639.36	-	-	639.36

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Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2006	655.53	14.59	640.94	-	-	640.94
	04/03/2006	655.53	14.14	641.39	-	-	641.39
	05/31/2006	655.53	15.05	640.48	-	-	640.48
	06/12/2006	655.53	NR	-	NR	-	-
	08/02/2006	655.53	NR	-	NR	-	-
	09/06/2006	655.53	16.49	639.04	-	-	639.04
	11/01/2006	655.53	17.01	638.52	-	-	638.52
	01/09/2007	655.53	15.39	640.14	-	-	640.14
	05/07/2007	655.53	14.15	641.38	-	-	641.38
	07/24/2007	655.53	16.03	639.50	-	-	639.50
	10/16/2007	655.53	17.49	638.04	-	-	638.04
	01/11/2008	655.53	16.48	639.05	-	-	639.05
	06/23/2008	655.53	15.23	640.30	-	-	640.30
	09/18/2008	655.53	15.60	639.93	-	-	639.93
	10/23/2008	655.53	16.91	638.62	-	-	638.62
	12/31/2008	655.53	12.67	642.86	-	-	642.86
	01/28/2009	655.53	13.27	642.26	-	-	642.26
	02/25/2009	655.53	13.20	642.33	-	-	642.33
	03/27/2009	655.53	13.46	642.07	-	-	642.07
	04/29/2009	655.53	13.73	641.80	-	-	641.80
	05/20/2009	655.53	13.84	641.69	-	-	641.69
	06/25/2009	655.53	13.36	642.17	-	-	642.17
	07/21/2009	655.53	14.14	641.39	-	-	641.39
	08/25/2009	655.53	14.75	640.78	-	-	640.78
	09/16/2009	655.53	19.74	635.79	-	-	635.79
	10/14/2009	655.53	15.72	639.81	-	-	639.81
	11/10/2009	655.53	16.09	639.44	-	-	639.44
	12/14/2009	655.53	16.41	639.12	-	-	639.12
	01/11/2010	655.53	16.49	639.04	-	-	639.04
	02/10/2010	655.53	16.34	639.19	-	-	639.19
	03/10/2010	655.53	16.99	638.54	-	-	638.54
	04/14/2010	655.53	16.67	638.86	-	-	638.86
	05/12/2010	655.53	17.07	638.46	-	-	638.46
	06/17/2010	655.53	17.61	637.92	-	-	637.92
	07/14/2010	655.53	17.86	637.67	-	-	637.67
	08/09/2010	655.53	16.67	638.86	-	-	638.86
	09/16/2010	655.53	15.49	640.04	-	-	640.04
	10/13/2010	655.53	16.32	639.21	-	-	639.21
	11/16/2010	655.53	16.24	639.29	-	-	639.29
	12/16/2010	655.53	15.78	639.75	-	-	639.75
	01/13/2011	655.53	15.46	640.07	-	-	640.07
	03/14/2011	655.53	15.32	640.21	-	-	640.21
	04/12/2011	655.53	15.57	639.96	-	-	639.96
	05/19/2011	655.53	14.39	641.14	-	-	641.14
	06/20/2011	655.53	14.40	641.13	-	-	641.13
	07/13/2011	655.53	12.82	642.71	-	-	642.71
	08/11/2011	655.53	13.31	642.22	-	-	642.22
	09/29/2011	655.53	16.03	639.50	-	-	639.50
	10/19/2011	655.53	15.39	640.14	-	-	640.14
	11/17/2011	655.53	15.48	640.05	-	-	640.05

**Table D-1
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Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/07/2011	655.53	16.58	638.95	-	-	638.95
	01/09/2012	655.53	16.46	639.07	-	-	639.07
4-11M	04/04/2005	656.27	15.33	640.94	-	-	640.94
	05/16/2005	656.27	15.24	641.03	-	-	641.03
	06/13/2005	656.27	15.64	640.63	-	-	640.63
	07/11/2005	656.27	16.10	640.17	-	-	640.17
	08/22/2005	656.27	16.61	639.66	-	-	639.66
	10/17/2005	656.27	15.06	641.21	-	-	641.21
	01/09/2006	656.27	13.98	642.29	-	-	642.29
	04/03/2006	656.27	13.17	643.10	-	-	643.10
	05/31/2006	656.27	14.07	642.20	-	-	642.20
	06/12/2006	656.27	NR	-	NR	-	-
	08/02/2006	656.27	NR	-	NR	-	-
	09/06/2006	656.27	15.56	640.71	-	-	640.71
	11/01/2006	656.27	15.91	640.36	-	-	640.36
	01/09/2007	656.27	14.18	642.09	-	-	642.09
	05/07/2007	656.27	13.05	643.22	-	-	643.22
	07/24/2007	656.27	14.73	641.54	-	-	641.54
	10/16/2007	656.27	16.48	639.79	-	-	639.79
	01/11/2008	656.27	15.42	640.85	-	-	640.85
	06/23/2008	656.27	14.23	642.04	-	-	642.04
	09/18/2008	656.27	14.12	642.15	-	-	642.15
	10/23/2008	656.27	14.85	641.42	-	-	641.42
	12/31/2008	656.27	11.40	644.87	-	-	644.87
	01/28/2009	656.27	12.08	644.19	-	-	644.19
	02/25/2009	656.27	12.60	643.67	-	-	643.67
	03/27/2009	656.27	12.83	643.44	-	-	643.44
	04/29/2009	656.27	12.62	643.65	-	-	643.65
	05/20/2009	656.27	12.76	643.51	-	-	643.51
	06/25/2009	656.27	12.15	644.12	-	-	644.12
	07/21/2009	656.27	13.01	643.26	-	-	643.26
	08/25/2009	656.27	13.60	642.67	-	-	642.67
	09/16/2009	656.27	18.96	637.31	-	-	637.31
	10/14/2009	656.27	14.69	641.58	-	-	641.58
	11/10/2009	656.27	14.99	641.28	-	-	641.28
	12/14/2009	656.27	15.26	641.01	-	-	641.01
	01/11/2010	656.27	15.32	640.95	-	-	640.95
	02/10/2010	656.27	15.21	641.06	-	-	641.06
	03/10/2010	656.27	16.01	640.26	-	-	640.26
	04/14/2010	656.27	15.56	640.71	-	-	640.71
	05/12/2010	656.27	16.13	640.14	-	-	640.14
	06/17/2010	656.27	16.58	639.69	-	-	639.69
	07/14/2010	656.27	16.92	639.35	-	-	639.35
	08/09/2010	656.27	16.78	639.49	-	-	639.49
	09/16/2010	656.27	16.32	639.95	-	-	639.95
	10/13/2010	656.27	15.14	641.13	-	-	641.13
	11/16/2010	656.27	15.08	641.19	-	-	641.19
	12/16/2010	656.27	14.61	641.66	-	-	641.66
	01/13/2011	656.27	14.46	641.81	-	-	641.81

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	656.27	14.31	641.96	-	-	641.96
	04/12/2011	656.27	14.54	641.73	-	-	641.73
	05/19/2011	656.27	13.32	642.95	-	-	642.95
	06/20/2011	656.27	13.33	642.94	-	-	642.94
	07/13/2011	656.27	13.74	642.53	-	-	642.53
	08/11/2011	656.27	13.81	642.46	-	-	642.46
	09/29/2011	656.27	14.97	641.30	-	-	641.30
	10/19/2011	656.27	15.31	640.96	-	-	640.96
	11/17/2011	656.27	15.44	640.83	-	-	640.83
	12/07/2011	656.27	15.50	640.77	-	-	640.77
	01/09/2012	656.27	15.31	640.96	-	-	640.96
5-1M	04/04/2005	653.01	13.16	639.85	-	-	639.85
	05/16/2005	653.01	13.51	639.50	-	-	639.50
	06/13/2005	653.01	13.95	639.06	-	-	639.06
	07/11/2005	653.01	14.33	638.68	-	-	638.68
	08/22/2005	653.01	14.84	638.17	-	-	638.17
	10/17/2005	653.01	12.98	640.03	-	-	640.03
	01/09/2006	653.01	12.15	640.86	-	-	640.86
	04/03/2006	653.01	11.22	641.79	-	-	641.79
	05/31/2006	653.01	12.22	640.79	-	-	640.79
	06/12/2006	653.01	NR	-	NR	-	-
	08/02/2006	653.01	13.15	639.86	-	-	639.86
	09/06/2006	653.01	13.96	639.05	-	-	639.05
	11/01/2006	653.01	13.92	639.09	-	-	639.09
	01/09/2007	653.01	12.35	640.66	-	-	640.66
	05/07/2007	653.01	11.04	641.97	-	-	641.97
	07/24/2007	653.01	13.01	640.00	-	-	640.00
	10/16/2007	653.01	14.91	638.10	-	-	638.10
	01/11/2008	653.01	13.51	639.50	-	-	639.50
	06/23/2008	653.01	11.96	641.05	-	-	641.05
	09/18/2008	653.01	12.75	640.26	-	-	640.26
	10/23/2008	653.01	13.25	639.76	-	-	639.76
	12/31/2008	653.01	9.58	643.43	-	-	643.43
	01/28/2009	653.01	10.00	643.01	-	-	643.01
	02/25/2009	653.01	10.22	642.79	-	-	642.79
	03/27/2009	653.01	10.22	642.79	-	-	642.79
	04/29/2009	653.01	10.64	642.37	-	-	642.37
	05/20/2009	653.01	10.73	642.28	-	-	642.28
	06/25/2009	653.01	10.49	642.52	-	-	642.52
	07/21/2009	653.01	11.29	641.72	-	-	641.72
	08/25/2009	653.01	11.92	641.09	-	-	641.09
	09/16/2009	653.01	9.65	643.36	-	-	643.36
	10/14/2009	653.01	13.11	639.90	-	-	639.90
	11/10/2009	653.01	13.52	639.49	-	-	639.49
	12/14/2009	653.01	13.91	639.10	-	-	639.10
	01/11/2010	653.01	14.09	638.92	-	-	638.92
	02/10/2010	653.01	13.96	639.05	-	-	639.05
	03/10/2010	653.01	14.69	638.32	-	-	638.32
	04/14/2010	653.01	14.29	638.72	-	-	638.72

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/12/2010	653.01	14.89	638.12	-	-	638.12
	06/17/2010	653.01	15.26	637.75	-	-	637.75
	07/14/2010	653.01	15.46	637.55	-	-	637.55
	08/09/2010	653.01	15.17	637.84	-	-	637.84
	09/16/2010	653.01	14.24	638.77	-	-	638.77
	10/13/2010	653.01	13.78	639.23	-	-	639.23
	11/16/2010	653.01	13.83	639.18	-	-	639.18
	12/16/2010	653.01	13.26	639.75	-	-	639.75
	01/13/2011	653.01	13.18	639.83	-	-	639.83
	03/14/2011	653.01	12.34	640.67	-	-	640.67
	04/12/2011	653.01	12.77	640.24	-	-	640.24
	05/19/2011	653.01	12.29	640.72	-	-	640.72
	06/20/2011	653.01	11.61	641.40	-	-	641.40
	07/13/2011	653.01	12.23	640.78	-	-	640.78
	08/11/2011	653.01	12.20	640.81	-	-	640.81
	09/29/2011	653.01	15.06	637.95	-	-	637.95
	10/19/2011	653.01	14.01	639.00	-	-	639.00
	11/17/2011	653.01	14.11	638.90	-	-	638.90
	12/07/2011	653.01	14.28	638.73	-	-	638.73
	01/09/2012	653.01	14.07	638.94	-	-	638.94
5-2M	04/04/2005	653.03	14.05	638.98	-	-	638.98
	05/16/2005	653.03	14.49	638.54	-	-	638.54
	06/13/2005	653.03	14.90	638.13	-	-	638.13
	07/11/2005	653.03	15.32	637.71	-	-	637.71
	08/22/2005	653.03	15.83	637.20	-	-	637.20
	10/17/2005	653.03	14.08	638.95	-	-	638.95
	01/09/2006	653.03	12.99	640.04	-	-	640.04
	04/03/2006	653.03	12.19	640.84	-	-	640.84
	05/31/2006	653.03	13.13	639.90	-	-	639.90
	06/12/2006	653.03	NR	-	NR	-	-
	08/02/2006	653.03	13.98	639.05	-	-	639.05
	09/06/2006	653.03	14.76	638.27	-	-	638.27
	11/01/2006	653.03	15.04	637.99	-	-	637.99
	01/09/2007	653.03	13.30	639.73	-	-	639.73
	05/07/2007	653.03	11.99	641.04	-	-	641.04
	07/24/2007	653.03	14.11	638.92	-	-	638.92
	10/16/2007	653.03	15.90	637.13	-	-	637.13
	01/11/2008	653.03	14.51	638.52	-	-	638.52
	06/23/2008	653.03	13.02	640.01	-	-	640.01
5-3M	04/04/2005	653.85	13.56	640.29	-	-	640.29
	05/16/2005	653.85	13.91	639.94	-	-	639.94
	06/13/2005	653.85	14.26	639.59	-	-	639.59
	07/11/2005	653.85	14.67	639.18	-	-	639.18
	08/22/2005	653.85	15.17	638.68	-	-	638.68
	10/17/2005	653.85	13.37	640.48	-	-	640.48
	01/09/2006	653.85	12.38	641.47	-	-	641.47
	04/03/2006	653.85	11.47	642.38	-	-	642.38
	05/31/2006	653.85	12.46	641.39	-	-	641.39

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/12/2006	653.85	NR	-	NR	-	-
	08/02/2006	653.85	14.44	639.41	-	-	639.41
	09/06/2006	653.85	10.15	643.70	-	-	643.70
	11/01/2006	653.85	14.45	639.40	-	-	639.40
	01/09/2007	653.85	12.69	641.16	-	-	641.16
	05/07/2007	653.85	11.37	642.48	-	-	642.48
	07/24/2007	653.85	13.34	640.51	-	-	640.51
	10/16/2007	653.85	15.19	638.66	-	-	638.66
	01/11/2008	653.85	13.89	639.96	-	-	639.96
	06/23/2008	653.85	12.29	641.56	-	-	641.56
5-4M	04/04/2005	653.93	14.27	639.66	-	-	639.66
	05/16/2005	653.93	14.62	639.31	-	-	639.31
	06/13/2005	653.93	15.02	638.91	-	-	638.91
	07/11/2005	653.93	15.44	638.49	-	-	638.49
	08/22/2005	653.93	15.94	637.99	-	-	637.99
	10/17/2005	653.93	14.25	639.68	-	-	639.68
	01/09/2006	653.93	13.12	640.81	-	-	640.81
	04/03/2006	653.93	12.21	641.72	-	-	641.72
	05/31/2006	653.93	13.19	640.74	-	-	640.74
	06/12/2006	653.93	NR	-	NR	-	-
	08/02/2006	653.93	14.01	639.92	-	-	639.92
	09/06/2006	653.93	14.81	639.12	-	-	639.12
	11/01/2006	653.93	15.23	638.70	-	-	638.70
	01/09/2007	653.93	13.35	640.58	-	-	640.58
	05/07/2007	653.93	12.17	641.76	-	-	641.76
	07/24/2007	653.93	14.02	639.91	-	-	639.91
	10/16/2007	653.93	15.81	638.12	-	-	638.12
	01/11/2008	653.93	14.69	639.24	-	-	639.24
	06/23/2008	653.93	13.08	640.85	-	-	640.85
5-5M	04/04/2005	654.68	13.99	640.69	-	-	640.69
	05/16/2005	654.68	14.28	640.40	-	-	640.40
	06/13/2005	654.68	14.64	640.04	-	-	640.04
	07/11/2005	654.68	15.02	639.66	15.01	0.01	639.67
	08/22/2005	654.68	15.53	639.15	-	-	639.15
	10/17/2005	654.68	13.73	640.95	-	-	640.95
	01/09/2006	654.68	12.73	641.95	-	-	641.95
	04/03/2006	654.68	11.86	642.82	-	-	642.82
	05/31/2006	654.68	12.81	641.87	-	-	641.87
	06/12/2006	654.68	NR	-	NR	-	-
	08/02/2006	654.68	14.09	640.59	-	-	640.59
	09/06/2006	654.68	14.47	640.21	-	-	640.21
	11/01/2006	654.68	15.02	639.66	-	-	639.66
	01/09/2007	654.68	13.20	641.48	-	-	641.48
	05/07/2007	654.68	11.76	642.92	-	-	642.92
	07/24/2007	654.68	13.82	640.86	-	-	640.86
	10/16/2007	654.68	15.59	639.09	-	-	639.09
	01/11/2008	654.68	14.28	640.40	-	-	640.40
	06/23/2008	654.68	12.72	641.96	-	-	641.96

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
5-6M	04/04/2005	654.29	14.22	640.07	-	-	640.07
	05/16/2005	654.29	14.54	639.75	-	-	639.75
	06/13/2005	654.29	14.90	639.39	-	-	639.39
	07/11/2005	654.29	15.30	638.99	-	-	638.99
	08/22/2005	654.29	15.82	638.47	-	-	638.47
	10/17/2005	654.29	14.13	640.16	-	-	640.16
	01/09/2006	654.29	13.05	641.24	13.02	0.03	641.26
	04/03/2006	654.29	12.19	642.10	-	-	642.10
	05/31/2006	654.29	13.12	641.17	-	-	641.17
	06/12/2006	654.29	NR	-	-	-	-
	08/02/2006	654.29	14.08	640.21	-	-	640.21
	09/06/2006	654.29	14.70	639.59	-	-	639.59
	11/01/2006	654.29	15.24	639.05	-	-	639.05
	01/09/2007	654.29	13.44	640.85	-	-	640.85
	05/07/2007	654.29	12.14	642.15	-	-	642.15
	07/24/2007	654.29	14.13	640.16	-	-	640.16
	10/16/2007	654.29	15.90	638.39	-	-	638.39
	01/11/2008	654.29	14.62	639.67	-	-	639.67
06/23/2008	654.29	13.21	641.08	-	-	641.08	
5-7M	04/04/2005	655.61	14.43	641.18	-	-	641.18
	05/16/2005	655.61	14.65	640.96	-	-	640.96
	06/13/2005	655.61	14.98	640.63	-	-	640.63
	07/11/2005	655.61	15.36	640.25	-	-	640.25
	08/22/2005	655.61	15.88	639.73	-	-	639.73
	10/17/2005	655.61	14.13	641.48	-	-	641.48
	01/09/2006	655.61	13.14	642.47	-	-	642.47
	04/03/2006	655.61	12.28	643.33	-	-	643.33
	05/31/2006	655.61	13.19	642.42	-	-	642.42
	06/12/2006	655.61	NR	-	NR	-	-
	08/02/2006	655.61	14.59	641.02	-	-	641.02
	09/06/2006	655.61	14.81	640.80	-	-	640.80
	11/01/2006	655.61	15.42	640.19	-	-	640.19
	01/09/2007	655.61	13.65	641.96	-	-	641.96
	05/07/2007	655.61	12.16	643.45	-	-	643.45
	07/24/2007	655.61	14.29	641.32	-	-	641.32
	10/16/2007	655.61	16.08	639.53	-	-	639.53
	01/11/2008	655.61	14.73	640.88	-	-	640.88
06/23/2008	655.61	13.27	642.34	-	-	642.34	
5-8M	04/04/2005	655.66	14.93	640.73	-	-	640.73
	05/16/2005	655.66	15.08	640.58	-	-	640.58
	06/13/2005	655.66	15.57	640.09	15.41	0.16	640.21
	07/11/2005	655.66	16.07	639.59	15.75	0.32	639.83
	08/22/2005	655.66	16.35	639.31	16.32	0.03	639.33
	10/17/2005	655.66	14.73	640.93	-	-	640.93
	01/09/2006	655.66	13.63	642.03	-	-	642.03
	04/03/2006	655.66	12.81	642.85	-	-	642.85
	05/31/2006	655.66	13.70	641.96	-	-	641.96
	06/12/2006	655.66	NR	-	NR	-	-

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/02/2006	655.66	14.74	640.92	-	-	640.92
	09/06/2006	655.66	15.25	640.41	-	-	640.41
	11/01/2006	655.66	15.83	639.83	15.75	0.08	639.89
	01/09/2007	655.66	14.05	641.61	-	-	641.61
	05/07/2007	655.66	12.71	642.95	12.70	0.01	642.96
	07/24/2007	655.66	14.65	641.01	-	-	641.01
	10/16/2007	655.66	16.65	639.01	16.42	0.23	639.18
	01/11/2008	655.66	15.25	640.41	-	-	640.41
	06/23/2008	655.66	13.96	641.70	-	-	641.70
	09/18/2008	655.66	14.12	641.54	-	-	641.54
	10/23/2008	655.66	14.50	641.16	-	-	641.16
	12/31/2008	655.66	11.02	644.64	-	-	644.64
	01/28/2009	655.66	11.70	643.96	-	-	643.96
	02/25/2009	655.66	12.13	643.53	-	-	643.53
	03/27/2009	655.66	12.04	643.62	-	-	643.62
	04/29/2009	655.66	12.81	642.85	Sheen	-	642.85
	05/20/2009	655.66	12.31	643.35	-	-	643.35
	06/25/2009	655.66	11.74	643.92	-	-	643.92
	07/21/2009	655.66	12.65	643.01	-	-	643.01
	08/25/2009	655.66	13.23	642.43	-	-	642.43
	09/16/2009	655.66	14.70	640.96	-	-	640.96
	10/14/2009	655.66	14.36	641.30	-	-	641.30
	11/10/2009	655.66	14.78	640.88	-	-	640.88
	12/14/2009	655.66	15.14	640.52	-	-	640.52
	01/11/2010	655.66	15.27	640.39	-	-	640.39
	02/10/2010	655.66	15.17	640.49	-	-	640.49
	03/10/2010	655.66	15.91	639.75	-	-	639.75
	04/14/2010	655.66	15.48	640.18	-	-	640.18
	05/12/2010	655.66	16.06	639.60	-	-	639.60
	06/17/2010	655.66	16.49	639.17	-	-	639.17
	07/14/2010	655.66	16.71	638.95	-	-	638.95
	08/09/2010	655.66	16.43	639.23	-	-	639.23
	09/16/2010	655.66	16.23	639.43	-	-	639.43
	10/13/2010	655.66	14.96	640.70	-	-	640.70
	11/16/2010	655.66	15.02	640.64	-	-	640.64
	12/16/2010	655.66	14.49	641.17	-	-	641.17
	01/13/2011	655.66	14.17	641.49	-	-	641.49
	03/14/2011	655.66	14.08	641.58	-	-	641.58
	04/12/2011	655.66	14.45	641.21	-	-	641.21
	05/19/2011	655.66	13.03	642.63	-	-	642.63
	06/20/2011	655.66	13.10	642.56	-	-	642.56
	07/13/2011	655.66	13.52	642.14	-	-	642.14
	08/11/2011	655.66	13.67	641.99	-	-	641.99
	09/29/2011	655.66	14.81	640.85	-	-	640.85
	10/19/2011	655.66	15.17	640.49	-	-	640.49
	11/17/2011	655.66	15.13	640.53	-	-	640.53
	12/07/2011	655.66	15.30	640.36	-	-	640.36
	01/09/2012	655.66	15.21	640.45	-	-	640.45
5-9M	04/04/2005	656.01	14.64	641.37	14.37	0.27	641.58

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/16/2005	656.01	14.98	641.03	14.40	0.58	641.47
	06/13/2005	656.01	14.75	641.26	-	-	641.26
	07/11/2005	656.01	15.14	640.87	15.13	0.01	640.88
	08/22/2005	656.01	15.80	640.21	15.79	0.01	640.22
	10/17/2005	656.01	14.10	641.91	-	-	641.91
	01/09/2006	656.01	13.08	642.93	13.05	0.03	642.95
	04/03/2006	656.01	12.20	643.81	-	-	643.81
	05/31/2006	656.01	13.10	642.91	-	-	642.91
	06/12/2006	656.01	NR	-	NR	-	-
	08/02/2006	656.01	14.32	641.69	-	-	641.69
	09/06/2006	656.01	14.67	641.34	-	-	641.34
	11/01/2006	656.01	15.16	640.85	-	-	640.85
	01/09/2007	656.01	13.49	642.52	-	-	642.52
	05/07/2007	656.01	12.04	643.97	-	-	643.97
	07/24/2007	656.01	14.07	641.94	-	-	641.94
	10/16/2007	656.01	15.98	640.03	-	-	640.03
	01/11/2008	656.01	14.71	641.30	-	-	641.30
	06/23/2008	656.01	13.45	642.56	-	-	642.56
5-10M	04/04/2005	656.61	15.32	641.29	-	-	641.29
	05/16/2005	656.61	15.28	641.33	-	-	641.33
	06/13/2005	656.61	15.63	640.98	-	-	640.98
	07/11/2005	656.61	15.99	640.62	-	-	640.62
	08/22/2005	656.61	16.62	639.99	-	-	639.99
	10/17/2005	656.61	15.12	641.49	-	-	641.49
	01/09/2006	656.61	13.94	642.67	13.92	0.02	642.69
	04/03/2006	656.61	13.12	643.49	-	-	643.49
	05/31/2006	656.61	14.01	642.60	-	-	642.60
	06/12/2006	656.61	NR	-	NR	-	-
	08/02/2006	656.61	14.91	641.70	-	-	641.70
	09/06/2006	656.61	15.53	641.08	-	-	641.08
	11/01/2006	656.61	15.93	640.68	-	-	640.68
	01/09/2007	656.61	14.26	642.35	-	-	642.35
	05/07/2007	656.61	12.98	643.63	-	-	643.63
	07/24/2007	656.61	14.77	641.84	-	-	641.84
	10/16/2007	656.61	16.80	639.81	16.74	0.06	639.86
	01/11/2008	656.61	15.68	640.93	-	-	640.93
	06/23/2008	656.61	14.24	642.37	-	-	642.37
5-11M	04/04/2005	657.63	15.45	642.18	-	-	642.18
	05/16/2005	657.63	15.33	642.30	-	-	642.30
	06/13/2005	657.63	15.68	641.95	-	-	641.95
	07/11/2005	657.63	16.04	641.59	-	-	641.59
	08/22/2005	657.63	16.63	641.00	-	-	641.00
	10/17/2005	657.63	14.90	642.73	-	-	642.73
	01/09/2006	657.63	13.94	643.69	13.92	0.02	643.71
	04/03/2006	657.63	13.06	644.57	-	-	644.57
	05/31/2006	657.63	13.97	643.66	-	-	643.66
	06/12/2006	657.63	NR	-	NR	-	-
	08/02/2006	657.63	14.90	642.73	-	-	642.73

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/06/2006	657.63	15.56	642.07	-	-	642.07
	11/01/2006	657.63	15.79	641.84	-	-	641.84
	01/09/2007	657.63	14.12	643.51	-	-	643.51
	05/07/2007	657.63	12.86	644.77	-	-	644.77
	07/24/2007	657.63	14.70	642.93	-	-	642.93
	10/16/2007	657.63	16.68	640.95	-	-	640.95
	01/11/2008	657.63	15.67	641.96	-	-	641.96
	06/23/2008	657.63	14.07	643.56	-	-	643.56
	09/18/2008	657.63	14.38	643.25	-	-	643.25
	10/23/2008	657.63	14.59	643.04	-	-	643.04
	12/30/2008	657.63	10.70	646.93	-	-	646.93
	01/28/2009	657.63	9.45	648.18	-	-	648.18
	02/25/2009	657.63	11.40	646.23	-	-	646.23
	03/27/2009	657.63	12.05	645.58	-	-	645.58
	04/29/2009	657.63	12.34	645.29	-	-	645.29
	05/20/2009	657.63	12.28	645.35	-	-	645.35
	06/25/2009	657.63	11.92	645.71	-	-	645.71
	07/21/2009	657.63	12.82	644.81	-	-	644.81
	08/25/2009	657.63	13.40	644.23	-	-	644.23
	09/16/2009	657.63	18.93	638.70	-	-	638.70
	10/14/2009	657.63	14.61	643.02	-	-	643.02
	11/10/2009	657.63	14.98	642.65	-	-	642.65
	12/14/2009	657.63	15.31	642.32	-	-	642.32
	01/11/2010	657.63	15.47	642.16	-	-	642.16
	02/10/2010	657.63	15.38	642.25	-	-	642.25
	03/10/2010	657.63	16.17	641.46	-	-	641.46
	04/14/2010	657.63	15.74	641.89	-	-	641.89
	05/12/2010	657.63	16.36	641.27	-	-	641.27
	06/17/2010	657.63	16.79	640.84	-	-	640.84
	07/14/2010	657.63	17.06	640.57	-	-	640.57
	09/16/2010	657.63	16.42	641.21	-	-	641.21
	10/13/2010	657.63	15.20	642.43	-	-	642.43
	11/16/2010	657.63	15.31	642.32	-	-	642.32
	12/16/2010	657.63	14.57	643.06	-	-	643.06
	01/13/2011	657.63	14.57	643.06	-	-	643.06
	03/14/2011	657.63	13.71	643.92	-	-	643.92
	04/12/2011	657.63	14.81	642.82	-	-	642.82
	05/19/2011	657.63	12.83	644.80	-	-	644.80
	06/20/2011	657.63	13.39	644.24	-	-	644.24
	07/13/2011	657.63	13.52	644.11	-	-	644.11
	08/11/2011	657.63	13.90	643.73	-	-	643.73
	09/29/2011	657.63	13.68	643.95	-	-	643.95
	10/19/2011	657.63	15.44	642.19	-	-	642.19
	11/17/2011	657.63	15.63	642.00	-	-	642.00
	12/07/2011	657.63	15.61	642.02	-	-	642.02
6-1M	04/04/2005	653.44	12.00	641.44	-	-	641.44
	05/16/2005	653.44	12.31	641.13	-	-	641.13
	06/13/2005	653.44	14.75	638.69	-	-	638.69
	07/11/2005	653.44	13.11	640.33	-	-	640.33

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/22/2005	653.44	13.63	639.81	-	-	639.81
	10/17/2005	653.44	11.73	641.71	-	-	641.71
	01/09/2006	653.44	10.83	642.61	-	-	642.61
	04/03/2006	653.44	9.83	643.61	-	-	643.61
	05/31/2006	653.44	10.88	642.56	-	-	642.56
	06/12/2006	653.44	11.10	642.34	-	-	642.34
	08/02/2006	653.44	12.05	641.39	-	-	641.39
	09/06/2006	653.44	12.74	640.70	-	-	640.70
	11/01/2006	653.44	12.74	640.70	-	-	640.70
	01/09/2007	653.44	11.08	642.36	-	-	642.36
	05/07/2007	653.44	9.65	643.79	-	-	643.79
	07/24/2007	653.44	11.78	641.66	-	-	641.66
	10/16/2007	653.44	13.80	639.64	-	-	639.64
	01/11/2008	653.44	12.20	641.24	-	-	641.24
	07/07/2008	653.44	11.45	641.99	-	-	641.99
6-2M	04/04/2005	653.65	12.79	640.86	-	-	640.86
	05/16/2005	653.65	13.09	640.56	-	-	640.56
	06/13/2005	653.65	13.47	640.18	-	-	640.18
	07/11/2005	653.65	13.86	639.79	-	-	639.79
	08/22/2005	653.65	14.35	639.30	-	-	639.30
	10/17/2005	653.65	12.47	641.18	-	-	641.18
	01/09/2006	653.65	11.59	642.06	-	-	642.06
	04/03/2006	653.65	10.61	643.04	-	-	643.04
	05/31/2006	653.65	11.63	642.02	-	-	642.02
	06/12/2006	653.65	11.90	641.75	-	-	641.75
	08/02/2006	653.65	12.87	640.78	-	-	640.78
	09/06/2006	653.65	13.44	640.21	-	-	640.21
	11/01/2006	653.65	13.62	640.03	-	-	640.03
	01/09/2007	653.65	11.92	641.73	-	-	641.73
	05/07/2007	653.65	10.47	643.18	-	-	643.18
	07/24/2007	653.65	12.61	641.04	-	-	641.04
	10/16/2007	653.65	14.45	639.20	-	-	639.20
	01/11/2008	653.65	12.99	640.66	-	-	640.66
	07/07/2008	653.65	12.25	641.40	-	-	641.40
	09/18/2008	653.65	12.12	641.53	-	-	641.53
	10/23/2008	653.65	12.61	641.04	-	-	641.04
	12/31/2008	653.65	9.00	644.65	-	-	644.65
	01/28/2009	653.65	9.82	643.83	-	-	643.83
	02/25/2009	653.65	9.68	643.97	-	-	643.97
	03/27/2009	653.65	9.63	644.02	-	-	644.02
	04/29/2009	653.65	9.92	643.73	9.91	0.01	643.74
	05/20/2009	653.65	10.04	643.61	-	-	643.61
	06/25/2009	653.65	9.74	643.91	-	-	643.91
	07/21/2009	653.65	10.67	642.98	-	-	642.98
	08/25/2009	653.65	11.24	642.41	-	-	642.41
	09/16/2009	653.65	11.84	641.81	-	-	641.81
	10/14/2009	653.65	12.52	641.13	-	-	641.13
	11/10/2009	653.65	12.97	640.68	-	-	640.68
	12/14/2009	653.65	13.38	640.27	-	-	640.27

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2010	653.65	13.56	640.09	-	-	640.09
	02/10/2010	653.65	12.97	640.68	-	-	640.68
	03/10/2010	653.65	13.71	639.94	-	-	639.94
	04/14/2010	653.65	13.31	640.34	-	-	640.34
	05/12/2010	653.65	14.16	639.49	-	-	639.49
	06/17/2010	653.65	14.19	639.46	-	-	639.46
	07/14/2010	653.65	14.73	638.92	-	-	638.92
	08/09/2010	653.65	14.62	639.03	-	-	639.03
	09/16/2010	653.65	14.66	638.99	-	-	638.99
	10/13/2010	653.65	13.24	640.41	-	-	640.41
	11/16/2010	653.65	13.32	640.33	-	-	640.33
	12/16/2010	653.65	12.72	640.93	-	-	640.93
	01/13/2011	653.65	12.81	640.84	-	-	640.84
	03/14/2011	653.65	11.99	641.66	-	-	641.66
	04/12/2011	653.65	12.42	641.23	-	-	641.23
	05/19/2011	653.65	11.00	642.65	-	-	642.65
	06/20/2011	653.65	11.29	642.36	-	-	642.36
	07/13/2011	653.65	13.52	640.13	-	-	640.13
	08/11/2011	653.65	11.77	641.88	-	-	641.88
	09/29/2011	653.65	13.17	640.48	-	-	640.48
	10/19/2011	653.65	13.53	640.12	-	-	640.12
	11/17/2011	653.65	13.44	640.21	-	-	640.21
	12/07/2011	653.65	13.76	639.89	-	-	639.89
	01/09/2012	653.65	13.57	640.08	-	-	640.08
6-3M	04/04/2005	654.27	12.48	641.79	-	-	641.79
	05/16/2005	654.27	12.81	641.46	-	-	641.46
	06/13/2005	654.27	13.18	641.09	-	-	641.09
	07/11/2005	654.27	13.53	640.74	-	-	640.74
	08/22/2005	654.27	14.08	640.19	-	-	640.19
	10/17/2005	654.27	11.97	642.30	-	-	642.30
	01/09/2006	654.27	11.13	643.14	-	-	643.14
	04/03/2006	654.27	10.13	644.14	-	-	644.14
	05/31/2006	654.27	11.12	643.15	-	-	643.15
	06/12/2006	654.27	11.42	642.85	-	-	642.85
	08/02/2006	654.27	12.74	641.53	-	-	641.53
	09/06/2006	654.27	13.03	641.24	-	-	641.24
	11/01/2006	654.27	13.37	640.90	-	-	640.90
	01/09/2007	654.27	11.54	642.73	-	-	642.73
	05/07/2007	654.27	9.99	644.28	-	-	644.28
	07/24/2007	654.27	12.33	641.94	-	-	641.94
	10/16/2007	654.27	14.22	640.05	-	-	640.05
	01/11/2008	654.27	12.52	641.75	-	-	641.75
	07/07/2008	654.27	12.40	641.87	-	-	641.87
	09/18/2008	654.27	11.50	642.77	-	-	642.77
	10/23/2008	654.27	11.91	642.36	-	-	642.36
	12/31/2008	654.27	8.42	645.85	-	-	645.85
	01/28/2009	654.27	10.24	644.03	-	-	644.03
	02/25/2009	654.27	9.20	645.07	-	-	645.07
	03/27/2009	654.27	9.28	644.99	-	-	644.99

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/29/2009	654.27	9.28	644.99	-	-	644.99
	05/20/2009	654.27	9.42	644.85	-	-	644.85
	06/25/2009	654.27	9.16	645.11	-	-	645.11
	07/21/2009	654.27	10.12	644.15	-	-	644.15
	08/25/2009	654.27	10.70	643.57	-	-	643.57
	09/16/2009	654.27	11.32	642.95	-	-	642.95
	10/14/2009	654.27	12.02	642.25	-	-	642.25
	11/10/2009	654.27	12.54	641.73	-	-	641.73
	12/14/2009	654.27	12.08	642.19	-	-	642.19
	01/11/2010	654.27	12.61	641.66	-	-	641.66
	02/10/2010	654.27	12.51	641.76	-	-	641.76
	03/10/2010	654.27	-	-	flooded	-	-
	04/14/2010	654.27	12.14	642.13	-	-	642.13
	05/12/2010	654.27	13.31	640.96	-	-	640.96
	06/17/2010	654.27	12.99	641.28	-	-	641.28
	07/14/2010	654.27	13.72	640.55	-	-	640.55
	08/09/2010	654.27	14.27	640.00	-	-	640.00
	09/16/2010	654.27	14.33	639.94	-	-	639.94
	10/13/2010	654.27	12.74	641.53	-	-	641.53
	11/16/2010	654.27	12.94	641.33	-	-	641.33
	12/16/2010	654.27	12.29	641.98	-	-	641.98
	01/13/2011	654.27	12.43	641.84	-	-	641.84
	03/14/2011	654.27	11.71	642.56	-	-	642.56
	04/12/2011	654.27	12.19	642.08	-	-	642.08
	05/19/2011	654.27	10.67	643.60	-	-	643.60
	06/20/2011	654.27	10.95	643.32	-	-	643.32
	07/13/2011	654.27	13.52	640.75	-	-	640.75
	08/11/2011	654.27	11.36	642.91	-	-	642.91
	09/29/2011	654.27	12.85	641.42	-	-	641.42
	10/19/2011	654.27	13.18	641.09	-	-	641.09
	11/17/2011	654.27	13.22	641.05	-	-	641.05
	12/07/2011	654.27	13.44	640.83	-	-	640.83
	01/09/2012	654.27	13.18	641.09	-	-	641.09
6-4M	04/04/2005	654.64	13.44	641.20	-	-	641.20
	05/16/2005	654.64	13.76	640.88	-	-	640.88
	06/13/2005	654.64	14.12	640.52	-	-	640.52
	07/11/2005	654.64	12.47	642.17	-	-	642.17
	08/22/2005	654.64	15.01	639.63	-	-	639.63
	10/17/2005	654.64	13.01	641.63	-	-	641.63
	01/09/2006	654.64	12.14	642.50	-	-	642.50
	04/03/2006	654.64	11.20	643.44	-	-	643.44
	05/31/2006	654.64	12.18	642.46	-	-	642.46
	06/12/2006	654.64	12.49	642.15	-	-	642.15
	08/02/2006	654.64	14.03	640.61	-	-	640.61
	09/06/2006	654.64	13.94	640.70	-	-	640.70
	11/01/2006	654.64	14.58	640.06	-	-	640.06
	01/09/2007	654.64	12.70	641.94	-	-	641.94
	05/07/2007	654.64	11.10	643.54	-	-	643.54
	07/24/2007	654.64	13.38	641.26	-	-	641.26

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/16/2007	654.64	15.11	639.53	-	-	639.53
	01/11/2008	654.64	13.61	641.03	-	-	641.03
	07/07/2008	654.64	13.45	641.19	-	-	641.19
6-5M	04/04/2005	655.33	13.29	642.04	-	-	642.04
	05/16/2005	655.33	13.61	641.72	-	-	641.72
	06/13/2005	655.33	13.99	641.34	-	-	641.34
	07/11/2005	655.33	14.32	641.01	-	-	641.01
	08/22/2005	655.33	14.90	640.43	-	-	640.43
	10/17/2005	655.33	12.40	642.93	-	-	642.93
	01/09/2006	655.33	11.67	643.66	-	-	643.66
	04/03/2006	655.33	10.33	645.00	-	-	645.00
	05/31/2006	655.33	11.73	643.60	-	-	643.60
	06/12/2006	655.33	11.93	643.40	-	-	643.40
	08/02/2006	655.33	14.25	641.08	-	-	641.08
	09/06/2006	655.33	13.65	641.68	-	-	641.68
	11/01/2006	655.33	14.47	640.86	-	-	640.86
	01/09/2007	655.33	11.97	643.36	-	-	643.36
	05/07/2007	655.33	10.37	644.96	-	-	644.96
	07/24/2007	655.33	13.29	642.04	-	-	642.04
	10/16/2007	655.33	14.99	640.34	-	-	640.34
	01/11/2008	655.33	12.87	642.46	-	-	642.46
	07/07/2008	655.33	14.45	640.88	-	-	640.88
6-6M	04/04/2005	655.59	14.05	641.54	-	-	641.54
	05/16/2005	655.59	14.40	641.19	14.27	0.13	641.29
	06/13/2005	655.59	14.60	640.99	-	-	640.99
	07/11/2005	655.59	14.94	640.65	-	-	640.65
	08/22/2005	655.59	15.69	639.90	15.50	0.19	640.04
	10/17/2005	655.59	13.63	641.96	-	-	641.96
	01/09/2006	655.59	12.68	642.91	12.66	0.02	642.93
	04/03/2006	655.59	11.77	643.82	-	-	643.82
	05/31/2006	655.59	12.70	642.89	-	-	642.89
	06/12/2006	655.59	13.02	642.57	-	-	642.57
	08/02/2006	655.59	14.69	640.90	-	-	640.90
	09/06/2006	655.59	14.40	641.19	-	-	641.19
	11/01/2006	655.59	15.19	640.40	-	-	640.40
	01/09/2007	655.59	13.63	641.96	-	-	641.96
	05/07/2007	655.59	11.69	643.90	-	-	643.90
	07/24/2007	655.59	14.03	641.56	-	-	641.56
	10/16/2007	655.59	15.77	639.82	-	-	639.82
	01/11/2008	655.59	14.21	641.38	-	-	641.38
	07/07/2008	655.59	14.70	640.89	-	-	640.89
	09/18/2008	655.59	13.44	642.15	-	-	642.15
	10/23/2008	655.59	13.72	641.87	-	-	641.87
	12/31/2008	655.59	9.90	645.69	-	-	645.69
	01/28/2009	655.59	10.75	644.84	-	-	644.84
	02/25/2009	655.59	10.75	644.84	-	-	644.84
	03/27/2009	655.59	10.66	644.93	-	-	644.93
	04/29/2009	655.59	10.83	644.76	Sheen	-	644.76

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/20/2009	655.59	11.15	644.44	-	-	644.44
	06/25/2009	655.59	10.68	644.91	-	-	644.91
	07/21/2009	655.59	11.64	643.95	-	-	643.95
	08/25/2009	655.59	12.18	643.41	-	-	643.41
	09/16/2009	655.59	12.75	642.84	-	-	642.84
	10/14/2009	655.59	13.39	642.20	-	-	642.20
	11/10/2009	655.59	13.93	641.66	13.91	0.02	641.68
	12/14/2009	655.59	14.21	641.38	-	-	641.38
	01/11/2010	655.59	14.08	641.51	-	-	641.51
	02/10/2010	655.59	14.41	641.18	-	-	641.18
	03/10/2010	655.59	15.99	639.60	-	-	639.60
	04/14/2010	655.59	13.46	642.13	-	-	642.13
	05/12/2010	655.59	14.98	640.61	-	-	640.61
	06/17/2010	655.59	15.31	640.28	-	-	640.28
	07/14/2010	655.59	16.09	639.50	-	-	639.50
	08/09/2010	655.59	15.60	639.99	-	-	639.99
	09/16/2010	655.59	15.45	640.14	-	-	640.14
	10/13/2010	655.59	14.07	641.52	-	-	641.52
	11/16/2010	655.59	14.20	641.39	-	-	641.39
	12/16/2010	655.59	13.61	641.98	-	-	641.98
	01/13/2011	655.59	13.61	641.98	-	-	641.98
	03/14/2011	655.59	13.49	642.10	-	-	642.10
	04/12/2011	655.59	13.73	641.86	-	-	641.86
	05/19/2011	655.59	12.11	643.48	-	-	643.48
	06/20/2011	655.59	12.27	643.32	-	-	643.32
	07/13/2011	655.59	13.52	642.07	-	-	642.07
	08/11/2011	655.59	12.70	642.89	-	-	642.89
	09/29/2011	655.59	14.03	641.56	-	-	641.56
	10/19/2011	655.59	14.41	641.18	-	-	641.18
	11/17/2011	655.59	14.48	641.11	-	-	641.11
	12/07/2011	655.59	14.61	640.98	-	-	640.98
	01/09/2012	655.59	14.43	641.16	-	-	641.16
6-7M	04/04/2005	656.54	14.09	642.45	-	-	642.45
	05/16/2005	656.54	14.33	642.21	-	-	642.21
	06/13/2005	656.54	14.65	641.89	-	-	641.89
	07/11/2005	656.54	14.98	641.56	-	-	641.56
	08/22/2005	656.54	15.54	641.00	-	-	641.00
	10/17/2005	656.54	13.54	643.00	-	-	643.00
	01/09/2006	656.54	12.55	643.99	-	-	643.99
	04/03/2006	656.54	11.27	645.27	-	-	645.27
	05/31/2006	656.54	12.48	644.06	-	-	644.06
	06/12/2006	656.54	12.94	643.60	-	-	643.60
	08/02/2006	656.54	14.71	641.83	-	-	641.83
	09/06/2006	656.54	14.30	642.24	-	-	642.24
	11/01/2006	656.54	14.92	641.62	-	-	641.62
	01/09/2007	656.54	13.25	643.29	-	-	643.29
	05/07/2007	656.54	11.22	645.32	-	-	645.32
	07/24/2007	656.54	13.99	642.55	-	-	642.55
	10/16/2007	656.54	15.66	640.88	-	-	640.88

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2008	656.54	14.09	642.45	-	-	642.45
	07/07/2008	656.54	15.00	641.54	-	-	641.54
6-8M	04/04/2005	656.44	14.68	641.76	14.45	0.23	641.93
	05/16/2005	656.44	14.63	641.81	-	-	641.81
	06/13/2005	656.44	14.95	641.49	14.94	0.01	641.50
	07/11/2005	656.44	15.54	640.90	15.27	0.27	641.11
	08/22/2005	656.44	16.15	640.29	15.87	0.28	640.50
	10/17/2005	656.44	13.83	642.61	-	-	642.61
	01/09/2006	656.44	13.00	643.44	12.98	0.02	643.46
	04/03/2006	656.44	12.68	643.76	-	-	643.76
	05/31/2006	656.44	13.04	643.40	-	-	643.40
	06/12/2006	656.44	13.38	643.06	-	-	643.06
	08/02/2006	656.44	14.77	641.67	-	-	641.67
	09/06/2006	656.44	14.72	641.72	-	-	641.72
	11/01/2006	656.44	15.31	641.13	-	-	641.13
	01/09/2007	656.44	13.64	642.80	-	-	642.80
	05/07/2007	656.44	12.04	644.40	-	-	644.40
	07/24/2007	656.44	14.30	642.14	-	-	642.14
	10/16/2007	656.44	16.11	640.33	-	-	640.33
01/11/2008	656.44	14.88	641.56	-	-	641.56	
07/07/2008	656.44	14.90	641.54	-	-	641.54	
6-9M	04/04/2005	657.71	14.83	642.88	14.46	0.37	643.16
	05/16/2005	657.71	14.85	642.86	14.53	0.32	643.10
	06/13/2005	657.71	15.20	642.51	14.84	0.36	642.78
	07/11/2005	657.71	15.55	642.16	15.22	0.33	642.41
	08/22/2005	657.71	16.02	641.69	15.80	0.22	641.86
	10/17/2005	657.71	13.91	643.80	-	-	643.80
	01/09/2006	657.71	12.98	644.73	-	-	644.73
	04/03/2006	657.71	12.08	645.63	-	-	645.63
	05/31/2006	657.71	12.97	644.74	-	-	644.74
	06/12/2006	657.71	13.33	644.38	-	-	644.38
	08/02/2006	657.71	14.32	643.39	-	-	643.39
	09/06/2006	657.71	14.60	643.11	-	-	643.11
	11/01/2006	657.71	14.83	642.88	-	-	642.88
	01/09/2007	657.71	13.22	644.49	-	-	644.49
	05/07/2007	657.71	11.80	645.91	-	-	645.91
07/24/2007	657.71	13.98	643.73	-	-	643.73	
10/16/2007	657.71	15.95	641.76	-	-	641.76	
01/11/2008	657.71	14.43	643.28	-	-	643.28	
07/07/2008	657.71	15.13	642.58	-	-	642.58	
6-10M	04/04/2005	657.60	15.02	642.58	-	-	642.58
	05/16/2005	657.60	14.98	642.62	-	-	642.62
	06/13/2005	657.60	15.32	642.28	-	-	642.28
	07/11/2005	657.60	15.69	641.91	-	-	641.91
	08/22/2005	657.60	16.25	641.35	-	-	641.35
	10/17/2005	657.60	14.53	643.07	-	-	643.07
	01/09/2006	657.60	13.48	644.12	-	-	644.12

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/03/2006	657.60	12.57	645.03	-	-	645.03
	05/31/2006	657.60	13.49	644.11	-	-	644.11
	06/12/2006	657.60	13.80	643.80	-	-	643.80
	08/02/2006	657.60	14.62	642.98	-	-	642.98
	09/06/2006	657.60	15.06	642.54	-	-	642.54
	11/01/2006	657.60	15.36	642.24	-	-	642.24
	01/09/2007	657.60	13.75	643.85	-	-	643.85
	05/07/2007	657.60	12.35	645.25	-	-	645.25
	07/24/2007	657.60	14.40	643.20	-	-	643.20
	10/16/2007	657.60	16.35	641.25	-	-	641.25
	01/11/2008	657.60	15.05	642.55	-	-	642.55
	07/07/2008	657.60	15.00	642.60	-	-	642.60
	09/18/2008	657.60	13.65	643.95	-	-	643.95
	10/23/2008	657.60	13.65	643.95	-	-	643.95
	12/31/2008	657.60	10.66	646.94	-	-	646.94
	01/28/2009	657.60	11.51	646.09	-	-	646.09
	02/25/2009	657.60	11.71	645.89	-	-	645.89
	03/27/2009	657.60	11.79	645.81	-	-	645.81
	04/29/2009	657.60	11.66	645.94	-	-	645.94
	05/20/2009	657.60	11.91	645.69	-	-	645.69
	06/25/2009	657.60	11.35	646.25	-	-	646.25
	07/21/2009	657.60	12.29	645.31	-	-	645.31
	08/25/2009	657.60	12.28	645.32	-	-	645.32
	09/16/2009	657.60	13.36	644.24	-	-	644.24
	10/14/2009	657.60	14.04	643.56	-	-	643.56
	11/10/2009	657.60	14.56	643.04	-	-	643.04
	12/14/2009	657.60	14.63	642.97	-	-	642.97
	01/11/2010	657.60	15.06	642.54	-	-	642.54
	02/10/2010	657.60	14.84	642.76	-	-	642.76
	03/10/2010	657.60	15.31	642.29	-	-	642.29
	04/14/2010	657.60	14.98	642.62	-	-	642.62
	05/12/2010	657.60	15.76	641.84	-	-	641.84
	06/17/2010	657.60	15.63	641.97	-	-	641.97
	07/14/2010	657.60	16.41	641.19	-	-	641.19
	08/09/2010	657.60	16.31	641.29	-	-	641.29
	09/16/2010	657.60	16.11	641.49	-	-	641.49
	10/13/2010	657.60	14.74	642.86	-	-	642.86
	11/16/2010	657.60	14.87	642.73	-	-	642.73
	12/16/2010	657.60	14.27	643.33	-	-	643.33
	01/13/2011	657.60	14.21	643.39	-	-	643.39
	03/14/2011	657.60	14.02	643.58	-	-	643.58
	04/12/2011	657.60	14.43	643.17	-	-	643.17
	05/19/2011	657.60	12.87	644.73	-	-	644.73
	06/20/2011	657.60	12.99	644.61	-	-	644.61
	07/13/2011	657.60	13.52	644.08	-	-	644.08
	08/11/2011	657.60	13.47	644.13	-	-	644.13
	09/29/2011	657.60	14.63	642.97	-	-	642.97
	10/19/2011	657.60	14.98	642.62	-	-	642.62
	11/17/2011	657.60	15.16	642.44	-	-	642.44
	12/07/2011	657.60	15.23	642.37	-	-	642.37

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2012	657.60	15.09	642.51	-	-	642.51
6-11M	04/04/2005	658.42	14.67	643.75	-	-	643.75
	05/16/2005	658.42	14.65	643.77	-	-	643.77
	06/13/2005	658.42	14.99	643.43	-	-	643.43
	07/11/2005	658.42	15.34	643.08	-	-	643.08
	08/22/2005	658.42	15.85	642.57	-	-	642.57
	10/17/2005	658.42	14.11	644.31	-	-	644.31
	01/09/2006	658.42	13.10	645.32	-	-	645.32
	04/03/2006	658.42	12.18	646.24	-	-	646.24
	05/31/2006	658.42	13.10	645.32	-	-	645.32
	06/12/2006	658.42	13.41	645.01	-	-	645.01
	08/02/2006	658.42	14.05	644.37	-	-	644.37
	09/06/2006	658.42	14.66	643.76	-	-	643.76
	11/01/2006	658.42	14.71	643.71	-	-	643.71
	01/09/2007	658.42	13.23	645.19	-	-	645.19
	05/07/2007	658.42	11.92	646.50	-	-	646.50
	07/24/2007	658.42	13.97	644.45	-	-	644.45
	10/16/2007	658.42	15.95	642.47	-	-	642.47
01/11/2008	658.42	14.55	643.87	-	-	643.87	
07/07/2008	658.42	14.95	643.47	-	-	643.47	
6-12M	04/04/2005	658.49	15.37	643.12	-	-	643.12
	05/16/2005	658.49	15.18	643.31	-	-	643.31
	06/13/2005	658.49	15.55	642.94	-	-	642.94
	07/11/2005	658.49	15.93	642.56	-	-	642.56
	08/22/2005	658.49	16.43	642.06	-	-	642.06
	10/17/2005	658.49	14.96	643.53	-	-	643.53
	01/09/2006	658.49	13.77	644.72	-	-	644.72
	04/03/2006	658.49	12.88	645.61	-	-	645.61
	05/31/2006	658.49	13.79	644.70	-	-	644.70
	06/12/2006	658.49	14.08	644.41	-	-	644.41
	08/02/2006	658.49	14.66	643.83	-	-	643.83
	09/06/2006	658.49	15.32	643.17	-	-	643.17
	11/01/2006	658.49	15.53	642.96	-	-	642.96
	01/09/2007	658.49	13.94	644.55	-	-	644.55
	05/07/2007	658.49	12.64	645.85	-	-	645.85
	07/24/2007	658.49	14.51	643.98	-	-	643.98
	10/16/2007	658.49	16.51	641.98	-	-	641.98
01/11/2008	658.49	15.38	643.11	-	-	643.11	
07/07/2008	658.49	14.85	643.64	-	-	643.64	
7-1M	04/04/2005	654.41	12.04	642.37	-	-	642.37
	05/16/2005	654.41	12.32	642.09	-	-	642.09
	06/13/2005	654.41	12.70	641.71	-	-	641.71
	07/11/2005	654.41	13.13	641.28	-	-	641.28
	08/22/2005	654.41	13.61	640.80	-	-	640.80
	10/17/2005	654.41	11.53	642.88	-	-	642.88
	01/09/2006	654.41	10.78	643.63	-	-	643.63
	04/03/2006	654.41	9.73	644.68	-	-	644.68

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/31/2006	654.41	10.76	643.65	-	-	643.65
	06/12/2006	654.41	NR	-	NR	-	-
	08/02/2006	654.41	12.05	642.36	-	-	642.36
	09/06/2006	654.41	12.66	641.75	-	-	641.75
	11/01/2006	654.41	12.66	641.75	-	-	641.75
	01/09/2007	654.41	11.01	643.40	-	-	643.40
	05/07/2007	654.41	9.54	644.87	-	-	644.87
	07/24/2007	654.41	11.77	642.64	-	-	642.64
	10/16/2007	654.41	13.83	640.58	-	-	640.58
	01/11/2008	654.41	12.13	642.28	-	-	642.28
	07/07/2008	654.41	11.80	642.61	-	-	642.61
7-2M	04/04/2005	654.72	11.45	643.27	-	-	643.27
	05/16/2005	654.72	11.65	643.07	-	-	643.07
	06/13/2005	654.72	12.76	641.96	-	-	641.96
	07/11/2005	654.72	12.58	642.14	12.45	0.13	642.24
	08/22/2005	654.72	13.12	641.60	12.89	0.23	641.77
	10/17/2005	654.72	10.76	643.96	-	-	643.96
	01/09/2006	654.72	10.10	644.62	-	-	644.62
	04/03/2006	654.72	9.02	645.70	-	-	645.70
	05/31/2006	654.72	10.02	644.70	-	-	644.70
	06/12/2006	654.72	NR	-	NR	-	-
	08/02/2006	654.72	11.12	643.60	-	-	643.60
	09/06/2006	654.72	11.95	642.77	-	-	642.77
	11/01/2006	654.72	11.68	643.04	-	-	643.04
	01/09/2007	654.72	10.08	644.64	-	-	644.64
	05/07/2007	654.72	8.73	645.99	-	-	645.99
	07/24/2007	654.72	10.95	643.77	-	-	643.77
	10/16/2007	654.72	13.09	641.63	-	-	641.63
	01/11/2008	654.72	11.38	643.34	-	-	643.34
	07/07/2008	654.72	10.75	643.97	-	-	643.97
7-3M	04/04/2005	654.97	12.28	642.69	-	-	642.69
	05/16/2005	654.97	12.48	642.49	-	-	642.49
	06/13/2005	654.97	12.76	642.21	-	-	642.21
	07/11/2005	654.97	13.21	641.76	-	-	641.76
	08/22/2005	654.97	13.68	641.29	-	-	641.29
	10/17/2005	654.97	11.53	643.44	-	-	643.44
	01/09/2006	654.97	10.78	644.19	-	-	644.19
	04/03/2006	654.97	9.80	645.17	-	-	645.17
	05/31/2006	654.97	10.76	644.21	-	-	644.21
	06/12/2006	654.97	NR	-	NR	-	-
	08/02/2006	654.97	12.04	642.93	-	-	642.93
	09/06/2006	654.97	12.72	642.25	-	-	642.25
	11/01/2006	654.97	12.83	642.14	-	-	642.14
	01/09/2007	654.97	11.05	643.92	-	-	643.92
	05/07/2007	654.97	9.62	645.35	-	-	645.35
	07/24/2007	654.97	11.93	643.04	-	-	643.04
	10/16/2007	654.97	13.82	641.15	-	-	641.15
	01/11/2008	654.97	12.14	642.83	-	-	642.83

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/07/2008	654.97	11.95	643.02	-	-	643.02
7-4M	04/04/2005	655.79	12.10	643.69	-	-	643.69
	05/16/2005	655.79	12.40	643.39	-	-	643.39
	06/13/2005	655.79	12.69	643.10	-	-	643.10
	07/11/2005	655.79	13.13	642.66	-	-	642.66
	08/22/2005	655.79	13.59	642.20	-	-	642.20
	10/17/2005	655.79	11.16	644.63	-	-	644.63
	01/09/2006	655.79	10.63	645.16	-	-	645.16
	04/03/2006	655.79	9.48	646.31	-	-	646.31
	05/31/2006	655.79	10.58	645.21	-	-	645.21
	06/12/2006	655.79	NR	-	NR	-	-
	08/02/2006	655.79	11.57	644.22	-	-	644.22
	09/06/2006	655.79	12.37	643.42	-	-	643.42
	11/01/2006	655.79	12.13	643.66	-	-	643.66
	01/09/2007	655.79	10.67	645.12	-	-	645.12
	05/07/2007	655.79	9.26	646.53	-	-	646.53
	07/24/2007	655.79	11.54	644.25	-	-	644.25
	10/16/2007	655.79	13.67	642.12	-	-	642.12
	01/11/2008	655.79	11.81	643.98	-	-	643.98
	07/07/2008	655.79	11.65	644.14	-	-	644.14
7-5M	04/04/2005	656.26	13.03	643.23	-	-	643.23
	05/16/2005	656.26	13.29	642.97	-	-	642.97
	06/13/2005	656.26	13.55	642.71	-	-	642.71
	07/11/2005	656.26	14.05	642.21	13.98	0.07	642.26
	08/22/2005	656.26	14.50	641.76	-	-	641.76
	10/17/2005	656.26	12.05	644.21	-	-	644.21
	01/09/2006	656.26	11.56	644.70	-	-	644.70
	04/03/2006	656.26	10.55	645.71	-	-	645.71
	05/31/2006	656.26	11.52	644.74	-	-	644.74
	06/12/2006	656.26	NR	-	NR	-	-
	08/02/2006	656.26	12.79	643.47	-	-	643.47
	09/06/2006	656.26	13.25	643.01	-	-	643.01
	11/01/2006	656.26	13.29	642.97	-	-	642.97
	01/09/2007	656.26	11.77	644.49	-	-	644.49
	05/07/2007	656.26	10.29	645.97	-	-	645.97
	07/24/2007	656.26	12.56	643.70	-	-	643.70
	10/16/2007	656.26	14.58	641.68	-	-	641.68
	01/11/2008	656.26	12.78	643.48	-	-	643.48
	07/07/2008	656.26	13.40	642.86	13.00	0.40	643.16
	09/18/2008	656.26	11.70	644.56	-	-	644.56
	10/23/2008	656.26	11.70	644.56	-	-	644.56
	12/31/2008	656.26	8.62	647.64	-	-	647.64
	01/28/2009	656.26	9.50	646.76	-	-	646.76
	02/25/2009	656.26	10.10	646.16	9.45	0.65	646.65
	03/27/2009	656.26	9.47	646.79	-	-	646.79
	04/29/2009	656.26	9.59	646.67	9.58	0.01	646.68
	05/20/2009	656.26	9.74	646.52	-	-	646.52
	06/25/2009	656.26	9.31	646.95	-	-	646.95

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/21/2009	656.26	10.32	645.94	-	-	645.94
	08/25/2009	656.26	10.90	645.36	-	-	645.36
	09/16/2009	656.26	11.58	644.68	11.55	0.03	644.70
	10/14/2009	656.26	12.78	643.48	12.27	0.51	643.99
	11/10/2009	656.26	12.84	643.42	12.83	0.01	643.43
	12/14/2009	656.26	13.19	643.07	-	-	643.07
	01/11/2010	656.26	13.54	642.72	-	-	642.72
	02/10/2010	656.26	13.55	642.71	-	-	642.71
	03/10/2010	656.26	14.19	642.07	-	-	642.07
	04/14/2010	656.26	14.06	642.20	-	-	642.20
	05/12/2010	656.26	14.62	641.64	-	-	641.64
	06/17/2010	656.26	14.64	641.62	-	-	641.62
	07/14/2010	656.26	15.11	641.15	-	-	641.15
	08/09/2010	656.26	14.53	641.73	-	-	641.73
	09/16/2010	656.26	14.48	641.78	-	-	641.78
	10/13/2010	656.26	13.01	643.25	12.98	0.03	643.28
	11/16/2010	656.26	13.24	643.02	-	-	643.02
	12/16/2010	656.26	12.68	643.58	-	-	643.58
	01/13/2011	656.26	12.73	643.53	-	-	643.53
	03/14/2011	656.26	12.04	644.22	-	-	644.22
	04/12/2011	656.26	12.78	643.48	-	-	643.48
	05/19/2011	656.26	11.09	645.17	-	-	645.17
	06/20/2011	656.26	11.49	644.77	-	-	644.77
	07/13/2011	656.26	13.52	642.74	-	-	642.74
	08/11/2011	656.26	11.77	644.49	-	-	644.49
	09/29/2011	656.26	13.24	643.02	-	-	643.02
	10/19/2011	656.26	13.40	642.86	-	-	642.86
	11/17/2011	656.26	13.49	642.77	-	-	642.77
	12/07/2011	656.26	13.73	642.53	-	-	642.53
	01/09/2012	656.26	13.51	642.75	-	-	642.75
7-6M	04/04/2005	656.26	11.96	644.30	-	-	644.30
	05/16/2005	656.26	12.21	644.05	-	-	644.05
	06/13/2005	656.26	12.50	643.76	-	-	643.76
	07/11/2005	656.26	12.86	643.40	-	-	643.40
	08/22/2005	656.26	13.50	642.76	13.34	0.16	642.88
	10/17/2005	656.26	10.93	645.33	-	-	645.33
	01/09/2006	656.26	10.42	645.84	-	-	645.84
	04/03/2006	656.26	9.41	646.85	-	-	646.85
	05/31/2006	656.26	10.38	645.88	-	-	645.88
	06/12/2006	656.26	NR	-	NR	-	-
	08/02/2006	656.26	11.17	645.09	-	-	645.09
	09/06/2006	656.26	12.05	644.21	-	-	644.21
	11/01/2006	656.26	11.70	644.56	-	-	644.56
	01/09/2007	656.26	10.37	645.89	-	-	645.89
	05/07/2007	656.26	9.04	647.22	-	-	647.22
	07/24/2007	656.26	11.28	644.98	-	-	644.98
	10/16/2007	656.26	13.33	642.93	13.31	0.02	642.95
	01/11/2008	656.26	11.52	644.74	-	-	644.74
	07/07/2008	656.26	11.10	645.16	-	-	645.16

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/18/2008	656.26	10.65	645.61	-	-	645.61
	10/23/2008	656.26	11.02	645.24	-	-	645.24
	12/31/2008	656.26	7.55	648.71	-	-	648.71
	01/28/2009	656.26	8.54	647.72	-	-	647.72
	02/25/2009	656.26	8.35	647.91	-	-	647.91
	03/27/2009	656.26	8.66	647.60	-	-	647.60
	04/29/2009	656.26	8.49	647.77	-	-	647.77
	05/20/2009	656.26	8.25	648.01	-	-	648.01
	06/25/2009	656.26	8.22	648.04	-	-	648.04
	07/21/2009	656.26	9.14	647.12	-	-	647.12
	08/25/2009	656.26	9.70	646.56	-	-	646.56
	09/16/2009	656.26	10.46	645.80	-	-	645.80
	10/14/2009	656.26	11.32	644.94	-	-	644.94
	11/10/2009	656.26	11.78	644.48	-	-	644.48
	12/14/2009	656.26	11.86	644.40	-	-	644.40
	01/11/2010	656.26	11.99	644.27	-	-	644.27
	02/10/2010	656.26	12.44	643.82	-	-	643.82
	03/10/2010	656.26	13.23	643.03	-	-	643.03
	04/14/2010	656.26	12.66	643.60	-	-	643.60
	05/12/2010	656.26	12.81	643.45	-	-	643.45
	06/17/2010	656.26	13.21	643.05	-	-	643.05
	07/14/2010	656.26	13.31	642.95	-	-	642.95
	08/09/2010	656.26	13.57	642.69	-	-	642.69
	09/16/2010	656.26	13.41	642.85	-	-	642.85
	10/13/2010	656.26	11.81	644.45	-	-	644.45
	11/16/2010	656.26	12.22	644.04	-	-	644.04
	12/16/2010	656.26	11.51	644.75	-	-	644.75
	01/13/2011	656.26	11.79	644.47	-	-	644.47
	03/14/2011	656.26	10.98	645.28	-	-	645.28
	04/12/2011	656.26	11.73	644.53	-	-	644.53
	05/19/2011	656.26	10.13	646.13	-	-	646.13
	06/20/2011	656.26	10.49	645.77	-	-	645.77
	07/13/2011	656.26	13.52	642.74	-	-	642.74
	08/11/2011	656.26	10.87	645.39	-	-	645.39
	09/29/2011	656.26	12.18	644.08	-	-	644.08
	10/19/2011	656.26	12.36	643.90	-	-	643.90
	11/17/2011	656.26	17.48	638.78	-	-	638.78
	12/07/2011	656.26	12.70	643.56	-	-	643.56
	01/09/2012	656.26	12.44	643.82	-	-	643.82
7-7M	04/04/2005	656.94	13.09	643.85	-	-	643.85
	05/16/2005	656.94	13.19	643.75	-	-	643.75
	06/13/2005	656.94	13.54	643.40	-	-	643.40
	07/11/2005	656.94	13.90	643.04	-	-	643.04
	08/22/2005	656.94	14.42	642.52	14.41	0.01	642.53
	10/17/2005	656.94	12.00	644.94	-	-	644.94
	01/09/2006	656.94	11.63	645.31	-	-	645.31
	04/03/2006	656.94	10.60	646.34	-	-	646.34
	05/31/2006	656.94	11.59	645.35	-	-	645.35
	06/12/2006	656.94	NR	-	NR	-	-

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/02/2006	656.94	12.62	644.32	-	-	644.32
	09/06/2006	656.94	13.20	643.74	-	-	643.74
	11/01/2006	656.94	13.04	643.90	-	-	643.90
	01/09/2007	656.94	11.63	645.31	-	-	645.31
	05/07/2007	656.94	10.29	646.65	-	-	646.65
	07/24/2007	656.94	12.49	644.45	-	-	644.45
	10/16/2007	656.94	14.50	642.44	-	-	642.44
	01/11/2008	656.94	12.74	644.20	-	-	644.20
	07/07/2008	656.94	13.00	643.94	-	-	643.94
	09/18/2008	656.94	11.78	645.16	-	-	645.16
	10/23/2008	656.94	11.60	645.34	-	-	645.34
	12/31/2008	656.94	8.15	648.79	-	-	648.79
	01/28/2009	656.94	8.84	648.10	-	-	648.10
	02/25/2009	656.94	9.57	647.37	-	-	647.37
	03/27/2009	656.94	8.22	648.72	-	-	648.72
	04/29/2009	656.94	9.63	647.31	-	-	647.31
	05/20/2009	656.94	9.77	647.17	-	-	647.17
	06/25/2009	656.94	9.34	647.60	-	-	647.60
	07/21/2009	656.94	10.31	646.63	-	-	646.63
	08/25/2009	656.94	10.85	646.09	-	-	646.09
	09/16/2009	656.94	11.54	645.40	-	-	645.40
	10/14/2009	656.94	12.25	644.69	-	-	644.69
	11/10/2009	656.94	12.77	644.17	-	-	644.17
	12/14/2009	656.94	17.06	639.88	-	-	639.88
	01/11/2010	656.94	12.64	644.30	-	-	644.30
	02/10/2010	656.94	13.43	643.51	-	-	643.51
	03/10/2010	656.94	14.01	642.93	-	-	642.93
	04/14/2010	656.94	13.71	643.23	-	-	643.23
	05/12/2010	656.94	13.56	643.38	-	-	643.38
	06/17/2010	656.94	13.58	643.36	-	-	643.36
	07/14/2010	656.94	13.45	643.49	-	-	643.49
	08/09/2010	656.94	14.46	642.48	-	-	642.48
	09/16/2010	656.94	14.37	642.57	-	-	642.57
	10/13/2010	656.94	12.82	644.12	-	-	644.12
	11/16/2010	656.94	13.21	643.73	-	-	643.73
	12/16/2010	656.94	12.49	644.45	-	-	644.45
	01/13/2011	656.94	12.68	644.26	-	-	644.26
	03/14/2011	656.94	12.18	644.76	-	-	644.76
	04/12/2011	656.94	12.79	644.15	-	-	644.15
	05/19/2011	656.94	11.08	645.86	-	-	645.86
	06/20/2011	656.94	11.49	645.45	-	-	645.45
	07/13/2011	656.94	13.52	643.42	-	-	643.42
	08/11/2011	656.94	11.81	645.13	-	-	645.13
	09/29/2011	656.94	13.11	643.83	-	-	643.83
	10/19/2011	656.94	13.25	643.69	-	-	643.69
	11/17/2011	656.94	13.33	643.61	-	-	643.61
	12/07/2011	656.94	13.61	643.33	-	-	643.33
	01/09/2012	656.94	13.40	643.54	-	-	643.54
7-8M	04/04/2005	657.32	12.87	644.45	12.50	0.37	644.73

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/16/2005	657.32	12.80	644.52	-	-	644.52
	06/13/2005	657.32	13.03	644.29	-	-	644.29
	07/11/2005	657.32	13.62	643.70	13.42	0.20	643.85
	08/22/2005	657.32	14.16	643.16	14.01	0.15	643.27
	10/17/2005	657.32	10.94	646.38	-	-	646.38
	01/09/2006	657.32	11.06	646.26	-	-	646.26
	04/03/2006	657.32	9.78	647.54	-	-	647.54
	05/31/2006	657.32	10.97	646.35	-	-	646.35
	06/12/2006	657.32	NR	-	NR	-	-
	08/02/2006	657.32	11.83	645.49	-	-	645.49
	09/06/2006	657.32	12.59	644.73	-	-	644.73
	11/01/2006	657.32	12.09	645.23	-	-	645.23
	01/09/2007	657.32	10.73	646.59	-	-	646.59
	05/07/2007	657.32	9.32	648.00	-	-	648.00
	07/24/2007	657.32	12.24	645.08	-	-	645.08
	10/16/2007	657.32	13.97	643.35	-	-	643.35
	01/11/2008	657.32	11.72	645.60	-	-	645.60
	07/07/2008	657.32	14.05	643.27	-	-	643.27
	09/18/2008	657.32	13.55	643.77	-	-	643.77
	10/23/2008	657.32	11.32	646.00	-	-	646.00
	12/31/2008	657.32	7.84	649.48	-	-	649.48
	01/28/2009	657.32	9.20	648.12	-	-	648.12
	02/25/2009	657.32	8.63	648.69	-	-	648.69
	03/27/2009	657.32	7.24	650.08	-	-	650.08
	04/29/2009	657.32	8.81	648.51	-	-	648.51
	05/20/2009	657.32	8.84	648.48	-	-	648.48
	06/25/2009	657.32	8.62	648.70	-	-	648.70
	07/21/2009	657.32	9.47	647.85	-	-	647.85
	08/25/2009	657.32	10.08	647.24	-	-	647.24
	09/16/2009	657.32	11.02	646.30	-	-	646.30
	10/14/2009	657.32	11.56	645.76	-	-	645.76
	11/10/2009	657.32	13.61	643.71	-	-	643.71
	12/14/2009	657.32	12.42	644.90	-	-	644.90
	01/11/2010	657.32	11.98	645.34	-	-	645.34
	02/10/2010	657.32	14.01	643.31	-	-	643.31
	03/10/2010	657.32	13.26	644.06	-	-	644.06
	04/14/2010	657.32	11.78	645.54	-	-	645.54
	05/12/2010	657.32	11.73	645.59	-	-	645.59
	06/17/2010	657.32	12.36	644.96	-	-	644.96
	07/14/2010	657.32	12.46	644.86	-	-	644.86
	08/09/2010	657.32	13.97	643.35	-	-	643.35
	09/16/2010	657.32	13.76	643.56	-	-	643.56
	10/13/2010	657.32	11.86	645.46	-	-	645.46
	11/16/2010	657.32	12.73	644.59	-	-	644.59
	12/16/2010	657.32	11.93	645.39	-	-	645.39
	01/13/2011	657.32	12.25	645.07	-	-	645.07
	03/14/2011	657.32	10.82	646.50	-	-	646.50
	04/12/2011	657.32	13.16	644.16	-	-	644.16
	05/19/2011	657.32	11.27	646.05	-	-	646.05
	06/20/2011	657.32	10.92	646.40	-	-	646.40

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/13/2011	657.32	13.52	643.80	-	-	643.80
	08/11/2011	657.32	11.48	645.84	-	-	645.84
	09/29/2011	657.32	12.62	644.70	-	-	644.70
	10/19/2011	657.32	12.74	644.58	-	-	644.58
	11/17/2011	657.32	12.81	644.51	-	-	644.51
	12/07/2011	657.32	13.11	644.21	-	-	644.21
	01/09/2012	657.32	12.75	644.57	-	-	644.57
7-9M	04/04/2005	657.97	13.50	644.47	-	-	644.47
	05/16/2005	657.97	13.64	644.33	13.60	0.04	644.36
	06/13/2005	657.97	13.93	644.04	-	-	644.04
	07/11/2005	657.97	14.39	643.58	14.28	0.11	643.66
	08/22/2005	657.97	14.86	643.11	14.78	0.08	643.17
	10/17/2005	657.97	12.38	645.59	-	-	645.59
	01/09/2006	657.97	12.01	645.96	-	-	645.96
	04/03/2006	657.97	10.99	646.98	-	-	646.98
	05/31/2006	657.97	11.96	646.01	-	-	646.01
	06/12/2006	657.97	NR	-	NR	-	-
	08/02/2006	657.97	12.79	645.18	-	-	645.18
	09/06/2006	657.97	13.52	644.45	-	-	644.45
	11/01/2006	657.97	13.14	644.83	-	-	644.83
	01/09/2007	657.97	11.90	646.07	-	-	646.07
	05/07/2007	657.97	10.64	647.33	-	-	647.33
	07/24/2007	657.97	12.92	645.05	-	-	645.05
	10/16/2007	657.97	14.86	643.11	-	-	643.11
	01/11/2008	657.97	12.91	645.06	-	-	645.06
	07/07/2008	657.97	14.45	643.52	-	-	643.52
7-10M	04/04/2005	659.20	11.49	647.71	-	-	647.71
	05/16/2005	659.20	12.65	646.55	-	-	646.55
	06/13/2005	659.20	13.14	646.06	-	-	646.06
	07/11/2005	659.20	13.21	645.99	-	-	645.99
	08/22/2005	659.20	14.90	644.30	-	-	644.30
	10/17/2005	659.20	10.95	648.25	-	-	648.25
	01/09/2006	659.20	11.79	647.41	-	-	647.41
	04/03/2006	659.20	11.12	648.08	-	-	648.08
	05/31/2006	659.20	11.99	647.21	-	-	647.21
	06/12/2006	659.20	NR	-	NR	-	-
	08/02/2006	659.20	12.69	646.51	-	-	646.51
	09/06/2006	659.20	13.32	645.88	-	-	645.88
	11/01/2006	659.20	11.54	647.66	-	-	647.66
	01/09/2007	659.20	11.62	647.58	-	-	647.58
	05/07/2007	659.20	10.65	648.55	-	-	648.55
	07/24/2007	659.20	12.56	646.64	-	-	646.64
	10/16/2007	659.20	15.03	644.17	-	-	644.17
	01/11/2008	659.20	11.63	647.57	-	-	647.57
	07/07/2008	659.20	13.45	645.75	-	-	645.75
7-11M	04/04/2005	660.48	15.73	644.75	-	-	644.75
	05/16/2005	660.48	15.74	644.74	-	-	644.74

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/13/2005	660.48	16.04	644.44	-	-	644.44
	07/11/2005	660.48	16.37	644.11	-	-	644.11
	08/22/2005	660.48	16.93	643.55	-	-	643.55
	10/17/2005	660.48	14.94	645.54	-	-	645.54
	01/09/2006	660.48	14.17	646.31	-	-	646.31
	04/03/2006	660.48	13.13	647.35	-	-	647.35
	05/31/2006	660.48	14.13	646.35	-	-	646.35
	06/12/2006	660.48	NR	-	NR	-	-
	08/02/2006	660.48	14.95	645.53	-	-	645.53
	09/06/2006	660.48	15.67	644.81	-	-	644.81
	11/01/2006	660.48	15.53	644.95	-	-	644.95
	01/09/2007	660.48	14.21	646.27	-	-	646.27
	05/07/2007	660.48	12.92	647.56	-	-	647.56
	07/24/2007	660.48	15.07	645.41	-	-	645.41
	10/16/2007	660.48	16.95	643.53	-	-	643.53
	01/11/2008	660.48	15.50	644.98	-	-	644.98
	07/07/2008	660.48	16.10	644.38	-	-	644.38
	09/18/2008	660.48	14.35	646.13	-	-	646.13
	10/23/2008	660.48	14.55	645.93	-	-	645.93
	12/31/2008	660.48	11.48	649.00	-	-	649.00
	01/28/2009	660.48	12.24	648.24	-	-	648.24
	02/25/2009	660.48	12.35	648.13	-	-	648.13
	03/27/2009	660.48	10.72	649.76	-	-	649.76
	04/29/2009	660.48	12.27	648.21	-	-	648.21
	05/20/2009	660.48	12.38	648.10	-	-	648.10
	06/25/2009	660.48	11.34	649.14	-	-	649.14
	07/21/2009	660.48	12.98	647.50	-	-	647.50
	08/25/2009	660.48	13.41	647.07	-	-	647.07
	09/16/2009	660.48	14.14	646.34	-	-	646.34
	10/14/2009	660.48	14.82	645.66	-	-	645.66
	11/10/2009	660.48	15.92	644.56	-	-	644.56
	12/14/2009	660.48	15.21	645.27	-	-	645.27
	01/11/2010	660.48	15.39	645.09	-	-	645.09
	02/10/2010	660.48	16.01	644.47	-	-	644.47
	03/10/2010	660.48	16.68	643.80	-	-	643.80
	04/14/2010	660.48	16.21	644.27	-	-	644.27
	05/12/2010	660.48	16.38	644.10	-	-	644.10
	06/17/2010	660.48	16.34	644.14	-	-	644.14
	07/14/2010	660.48	17.21	643.27	-	-	643.27
	08/09/2010	660.48	17.02	643.46	-	-	643.46
	09/16/2010	660.48	16.91	643.57	-	-	643.57
	10/13/2010	660.48	15.33	645.15	-	-	645.15
	11/16/2010	660.48	15.68	644.80	-	-	644.80
	12/16/2010	660.48	14.99	645.49	-	-	645.49
	01/13/2011	660.48	15.31	645.17	-	-	645.17
	03/14/2011	660.48	14.55	645.93	-	-	645.93
	04/12/2011	660.48	15.31	645.17	-	-	645.17
	05/19/2011	660.48	13.58	646.90	-	-	646.90
	06/20/2011	660.48	13.87	646.61	-	-	646.61
	07/13/2011	660.48	13.52	646.96	-	-	646.96

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/11/2011	660.48	14.39	646.09	-	-	646.09
	09/29/2011	660.48	15.51	644.97	-	-	644.97
	10/19/2011	660.48	14.68	645.80	-	-	645.80
	11/17/2011	660.48	14.73	645.75	-	-	645.75
	12/07/2011	660.48	16.03	644.45	-	-	644.45
	01/09/2012	660.48	15.87	644.61	-	-	644.61
7-12M	04/04/2005	660.77	15.13	645.64	-	-	645.64
	05/16/2005	660.77	15.20	645.57	-	-	645.57
	06/13/2005	660.77	15.51	645.26	-	-	645.26
	07/11/2005	660.77	15.77	645.00	-	-	645.00
	08/22/2005	660.77	16.40	644.37	-	-	644.37
	10/17/2005	660.77	14.30	646.47	-	-	646.47
	01/09/2006	660.77	13.66	647.11	-	-	647.11
	04/03/2006	660.77	12.60	648.17	-	-	648.17
	05/31/2006	660.77	13.58	647.19	-	-	647.19
	06/12/2006	660.77	NR	-	NR	-	-
	08/02/2006	660.77	14.26	646.51	-	-	646.51
	09/06/2006	660.77	15.12	645.65	-	-	645.65
	11/01/2006	660.77	14.81	645.96	-	-	645.96
	01/09/2007	660.77	13.60	647.17	-	-	647.17
	05/07/2007	660.77	12.31	648.46	-	-	648.46
	07/24/2007	660.77	14.54	646.23	-	-	646.23
	10/16/2007	660.77	16.37	644.40	-	-	644.40
	01/11/2008	660.77	14.88	645.89	-	-	645.89
	07/07/2008	660.77	15.10	645.67	-	-	645.67
8-1M	04/04/2005	654.86	10.53	644.33	-	-	644.33
	05/16/2005	654.86	10.79	644.07	-	-	644.07
	06/13/2005	654.86	11.13	643.73	-	-	643.73
	07/11/2005	654.86	11.55	643.31	-	-	643.31
	08/22/2005	654.86	12.02	642.84	-	-	642.84
	10/17/2005	654.86	9.68	645.18	-	-	645.18
	01/09/2006	654.86	9.13	645.73	-	-	645.73
	04/03/2006	654.86	8.07	646.79	-	-	646.79
	05/31/2006	654.86	9.07	645.79	-	-	645.79
	06/12/2006	654.86	NR	-	NR	-	-
	08/02/2006	654.86	NR	-	NR	-	-
	09/06/2006	654.86	10.92	643.94	-	-	643.94
	11/01/2006	654.86	10.39	644.47	-	-	644.47
	01/09/2007	654.86	9.10	645.76	-	-	645.76
	05/07/2007	654.86	7.76	647.10	-	-	647.10
	07/24/2007	654.86	10.06	644.80	-	-	644.80
	10/16/2007	654.86	12.10	642.76	-	-	642.76
	01/11/2008	654.86	10.19	644.67	-	-	644.67
	07/07/2008	654.86	9.60	645.26	-	-	645.26
	09/18/2008	654.86	9.50	645.36	-	-	645.36
	10/23/2008	654.86	8.35	646.51	-	-	646.51
	12/31/2008	654.86	6.12	648.74	-	-	648.74
	01/28/2009	654.86	9.35	645.51	-	-	645.51

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/25/2009	654.86	7.23	647.63	-	-	647.63
	03/27/2009	654.86	7.56	647.30	-	-	647.30
	04/29/2009	654.86	7.25	647.61	-	-	647.61
	05/20/2009	654.86	7.21	647.65	-	-	647.65
	06/25/2009	654.86	7.11	647.75	-	-	647.75
	07/21/2009	654.86	7.92	646.94	-	-	646.94
	08/25/2009	654.86	8.52	646.34	-	-	646.34
	09/16/2009	654.86	9.45	645.41	-	-	645.41
	10/14/2009	654.86	10.46	644.40	-	-	644.40
	11/10/2009	654.86	10.83	644.03	-	-	644.03
	12/14/2009	654.86	10.66	644.20	-	-	644.20
	01/11/2010	654.86	10.73	644.13	-	-	644.13
	02/10/2010	654.86	11.46	643.40	-	-	643.40
	03/10/2010	654.86	12.24	642.62	-	-	642.62
	04/14/2010	654.86	11.71	643.15	-	-	643.15
	05/12/2010	654.86	12.37	642.49	-	-	642.49
	06/17/2010	654.86	12.74	642.12	-	-	642.12
	07/14/2010	654.86	13.07	641.79	-	-	641.79
	08/09/2010	654.86	12.48	642.38	-	-	642.38
	09/16/2010	654.86	12.57	642.29	-	-	642.29
	10/13/2010	654.86	10.98	643.88	-	-	643.88
	11/16/2010	654.86	11.31	643.55	-	-	643.55
	12/16/2010	654.86	10.54	644.32	-	-	644.32
	01/13/2011	654.86	10.89	643.97	-	-	643.97
	03/14/2011	654.86	10.15	644.71	-	-	644.71
	04/12/2011	654.86	10.47	644.39	-	-	644.39
	05/19/2011	654.86	8.59	646.27	-	-	646.27
	06/20/2011	654.86	9.51	645.35	-	-	645.35
	07/13/2011	654.86	13.52	641.34	-	-	641.34
	08/11/2011	654.86	10.01	644.85	-	-	644.85
	09/29/2011	654.86	11.32	643.54	-	-	643.54
	10/19/2011	654.86	11.32	643.54	-	-	643.54
	11/17/2011	654.86	11.37	643.49	-	-	643.49
	12/07/2011	654.86	11.78	643.08	-	-	643.08
	01/09/2012	654.86	11.50	643.36	-	-	643.36
8-2M	04/04/2005	655.33	10.08	645.25	-	-	645.25
	05/16/2005	655.33	10.39	644.94	-	-	644.94
	06/13/2005	655.33	10.70	644.63	-	-	644.63
	07/11/2005	655.33	11.08	644.25	-	-	644.25
	08/22/2005	655.33	11.67	643.66	-	-	643.66
	10/17/2005	655.33	9.25	646.08	-	-	646.08
	01/09/2006	655.33	8.75	646.58	-	-	646.58
	04/03/2006	655.33	7.59	647.74	-	-	647.74
	05/31/2006	655.33	8.70	646.63	-	-	646.63
	06/12/2006	655.33	NR	-	NR	-	-
	08/02/2006	655.33	NR	-	NR	-	-
	09/06/2006	655.33	10.51	644.82	-	-	644.82
	11/01/2006	655.33	9.80	645.53	-	-	645.53
	01/09/2007	655.33	8.58	646.75	-	-	646.75

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/07/2007	655.33	7.28	648.05	-	-	648.05
	07/24/2007	655.33	9.90	645.43	-	-	645.43
	10/16/2007	655.33	11.67	643.66	-	-	643.66
	01/11/2008	655.33	9.67	645.66	-	-	645.66
	07/07/2008	655.33	9.50	645.83	-	-	645.83
	09/18/2008	655.33	9.15	646.18	-	-	646.18
	10/23/2008	655.33	9.10	646.23	-	-	646.23
	12/31/2008	655.33	6.05	649.28	-	-	649.28
	01/28/2009	655.33	7.05	648.28	-	-	648.28
	02/25/2009	655.33	7.01	648.32	-	-	648.32
	03/27/2009	655.33	7.14	648.19	-	-	648.19
	04/29/2009	655.33	6.86	648.47	-	-	648.47
	05/20/2009	655.33	6.72	648.61	-	-	648.61
	06/25/2009	655.33	6.76	648.57	-	-	648.57
	07/21/2009	655.33	7.54	647.79	-	-	647.79
	08/25/2009	655.33	8.12	647.21	-	-	647.21
	09/16/2009	655.33	9.23	646.10	-	-	646.10
	10/14/2009	655.33	10.01	645.32	9.91	0.10	645.42
	11/10/2009	655.33	10.52	644.81	-	-	644.81
	12/14/2009	655.33	10.68	644.65	-	-	644.65
	01/11/2010	655.33	10.74	644.59	-	-	644.59
	02/10/2010	655.33	11.08	644.25	-	-	644.25
	03/10/2010	655.33	11.64	643.69	-	-	643.69
	04/14/2010	655.33	10.94	644.39	-	-	644.39
	05/12/2010	655.33	11.59	643.74	-	-	643.74
	06/17/2010	655.33	12.01	643.32	-	-	643.32
	07/14/2010	655.33	17.68	637.65	-	-	637.65
	08/09/2010	655.33	12.17	643.16	-	-	643.16
	09/16/2010	655.33	13.25	642.08	-	-	642.08
	10/13/2010	655.33	10.61	644.72	-	-	644.72
	11/16/2010	655.33	11.03	644.30	-	-	644.30
	12/16/2010	655.33	10.17	645.16	-	-	645.16
	01/13/2011	655.33	10.69	644.64	-	-	644.64
	03/14/2011	655.33	9.91	645.42	-	-	645.42
	04/12/2011	655.33	10.31	645.02	-	-	645.02
	05/19/2011	655.33	8.77	646.56	-	-	646.56
	06/20/2011	655.33	9.29	646.04	-	-	646.04
	07/13/2011	655.33	13.52	641.81	-	-	641.81
	08/11/2011	655.33	9.91	645.42	-	-	645.42
	09/29/2011	655.33	11.02	644.31	-	-	644.31
	10/19/2011	655.33	10.36	644.97	-	-	644.97
	11/17/2011	655.33	11.09	644.24	-	-	644.24
	12/07/2011	655.33	11.45	643.88	-	-	643.88
	01/09/2012	655.33	11.19	644.14	-	-	644.14
8-3M	04/04/2005	655.55	10.77	644.78	-	-	644.78
	05/16/2005	655.55	11.20	644.35	-	-	644.35
	06/13/2005	655.55	11.42	644.13	-	-	644.13
	07/11/2005	655.55	11.82	643.73	-	-	643.73
	08/22/2005	655.55	12.34	643.21	-	-	643.21

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/17/2005	655.55	9.80	645.75	-	-	645.75
	01/09/2006	655.55	9.34	646.21	-	-	646.21
	04/03/2006	655.55	8.28	647.27	-	-	647.27
	05/31/2006	655.55	9.30	646.25	-	-	646.25
	06/12/2006	655.55	NR	-	NR	-	-
	08/02/2006	655.55	NR	-	NR	-	-
	09/06/2006	655.55	11.05	644.50	-	-	644.50
	11/01/2006	655.55	10.52	645.03	-	-	645.03
	01/09/2007	655.55	9.26	646.29	-	-	646.29
	05/07/2007	655.55	7.96	647.59	-	-	647.59
	07/24/2007	655.55	10.48	645.07	-	-	645.07
	10/16/2007	655.55	12.27	643.28	-	-	643.28
	01/11/2008	655.55	10.37	645.18	-	-	645.18
	07/07/2008	655.55	10.25	645.30	-	-	645.30
8-4M	04/04/2005	656.56	10.78	645.78	-	-	645.78
	05/16/2005	656.56	11.17	645.39	-	-	645.39
	06/13/2005	656.56	11.47	645.09	-	-	645.09
	07/11/2005	656.56	11.87	644.69	-	-	644.69
	08/22/2005	656.56	12.52	644.04	-	-	644.04
	10/17/2005	656.56	9.90	646.66	-	-	646.66
	01/09/2006	656.56	9.46	647.10	-	-	647.10
	04/03/2006	656.56	8.32	648.24	-	-	648.24
	05/31/2006	656.56	9.41	647.15	-	-	647.15
	06/12/2006	656.56	NR	-	NR	-	-
	08/02/2006	656.56	NR	-	NR	-	-
	09/06/2006	656.56	11.16	645.40	-	-	645.40
	11/01/2006	656.56	10.42	646.14	-	-	646.14
	01/09/2007	656.56	9.13	647.43	-	-	647.43
	05/07/2007	656.56	7.77	648.79	7.71	0.06	648.84
	07/24/2007	656.56	10.93	645.63	-	-	645.63
	10/16/2007	656.56	12.38	644.18	-	-	644.18
	01/11/2008	656.56	10.39	646.17	-	-	646.17
	07/07/2008	656.56	10.40	646.16	-	-	646.16
8-5M	04/04/2005	656.32	11.03	645.29	-	-	645.29
	05/16/2005	656.32	11.49	644.83	-	-	644.83
	06/13/2005	656.32	11.68	644.64	-	-	644.64
	07/11/2005	656.32	12.05	644.27	-	-	644.27
	08/22/2005	656.32	12.65	643.67	-	-	643.67
	10/17/2005	656.32	10.03	646.29	-	-	646.29
	01/09/2006	656.32	9.60	646.72	-	-	646.72
	04/03/2006	656.32	8.53	647.79	-	-	647.79
	05/31/2006	656.32	9.54	646.78	-	-	646.78
	06/12/2006	656.32	NR	-	NR	-	-
	08/02/2006	656.32	NR	-	NR	-	-
	09/06/2006	656.32	11.21	645.11	-	-	645.11
	11/01/2006	656.32	10.69	645.63	-	-	645.63
	01/09/2007	656.32	9.50	646.82	-	-	646.82
	05/07/2007	656.32	8.19	648.13	-	-	648.13

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/24/2007	656.32	10.90	645.42	-	-	645.42
	10/16/2007	656.32	12.49	643.83	-	-	643.83
	01/11/2008	656.32	10.61	645.71	-	-	645.71
	07/07/2008	656.32	11.10	645.22	-	-	645.22
8-6M	04/04/2005	658.69	12.66	646.03	-	-	646.03
	05/16/2005	658.69	13.10	645.59	-	-	645.59
	06/13/2005	658.69	13.30	645.39	-	-	645.39
	07/11/2005	658.69	13.62	645.07	-	-	645.07
	08/22/2005	658.69	14.26	644.43	-	-	644.43
	10/17/2005	658.69	11.69	647.00	-	-	647.00
	01/09/2006	658.69	11.18	647.51	-	-	647.51
	04/03/2006	658.69	10.07	648.62	-	-	648.62
	05/31/2006	658.69	11.15	647.54	-	-	647.54
	06/12/2006	658.69	NR	-	NR	-	-
	08/02/2006	658.69	NR	-	NR	-	-
	09/06/2006	658.69	12.84	645.85	-	-	645.85
	11/01/2006	658.69	12.25	646.44	-	-	646.44
	01/09/2007	658.69	11.09	647.60	-	-	647.60
	05/07/2007	658.69	9.81	648.88	-	-	648.88
	07/24/2007	658.69	12.59	646.10	-	-	646.10
	10/16/2007	658.69	14.11	644.58	-	-	644.58
	01/11/2008	658.69	12.27	646.42	-	-	646.42
	07/07/2008	658.69	12.50	646.19	-	-	646.19
8-7M	04/04/2005	659.02	13.46	645.56	-	-	645.56
	05/16/2005	659.02	13.83	645.19	-	-	645.19
	06/13/2005	659.02	14.03	644.99	-	-	644.99
	07/11/2005	659.02	14.36	644.66	-	-	644.66
	08/22/2005	659.02	15.03	643.99	-	-	643.99
	10/17/2005	659.02	12.44	646.58	-	-	646.58
	01/09/2006	659.02	11.93	647.09	-	-	647.09
	04/03/2006	659.02	10.87	648.15	-	-	648.15
	05/31/2006	659.02	11.83	647.19	-	-	647.19
	06/12/2006	659.02	NR	-	NR	-	-
	08/02/2006	659.02	NR	-	NR	-	-
	09/06/2006	659.02	13.45	645.57	-	-	645.57
	11/01/2006	659.02	12.99	646.03	-	-	646.03
	01/09/2007	659.02	11.81	647.21	-	-	647.21
	05/07/2007	659.02	10.48	648.54	-	-	648.54
	07/24/2007	659.02	13.28	645.74	-	-	645.74
	10/16/2007	659.02	14.84	644.18	-	-	644.18
	01/11/2008	659.02	12.96	646.06	-	-	646.06
	07/07/2008	659.02	13.85	645.17	-	-	645.17
8-8M	04/04/2005	659.46	13.37	646.09	-	-	646.09
	05/16/2005	659.46	13.55	645.91	-	-	645.91
	06/13/2005	659.46	13.86	645.60	-	-	645.60
	07/11/2005	659.46	14.09	645.37	-	-	645.37
	08/22/2005	659.46	14.55	644.91	-	-	644.91

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/17/2005	659.46	12.43	647.03	-	-	647.03
	01/09/2006	659.46	11.84	647.62	-	-	647.62
	04/03/2006	659.46	10.80	648.66	-	-	648.66
	05/31/2006	659.46	11.69	647.77	-	-	647.77
	06/12/2006	659.46	NR	-	NR	-	-
	08/02/2006	659.46	NR	-	NR	-	-
	09/06/2006	659.46	13.26	646.20	-	-	646.20
	11/01/2006	659.46	12.93	646.53	-	-	646.53
	01/09/2007	659.46	11.70	647.76	-	-	647.76
	05/07/2007	659.46	10.43	649.03	-	-	649.03
	07/24/2007	659.46	12.62	646.84	-	-	646.84
	10/16/2007	659.46	14.53	644.93	-	-	644.93
	01/11/2008	659.46	12.95	646.51	-	-	646.51
	07/07/2008	659.46	12.45	647.01	-	-	647.01
	09/18/2008	659.46	12.00	647.46	-	-	647.46
	10/23/2008	659.46	11.60	647.86	-	-	647.86
	12/31/2008	659.46	9.12	650.34	-	-	650.34
	01/28/2009	659.46	9.80	649.66	-	-	649.66
	02/25/2009	659.46	9.82	649.64	-	-	649.64
	03/27/2009	659.46	10.20	649.26	-	-	649.26
	04/29/2009	659.46	9.81	649.65	-	-	649.65
	05/20/2009	659.46	9.86	649.60	-	-	649.60
	06/25/2009	659.46	9.62	649.84	-	-	649.84
	07/21/2009	659.46	10.36	649.10	-	-	649.10
	08/25/2009	659.46	10.86	648.60	-	-	648.60
	09/16/2009	659.46	11.78	647.68	-	-	647.68
	10/14/2009	659.46	12.68	646.78	-	-	646.78
	11/10/2009	659.46	13.07	646.39	-	-	646.39
	12/14/2009	659.46	12.58	646.88	-	-	646.88
	01/11/2010	659.46	12.76	646.70	-	-	646.70
	02/10/2010	659.46	14.68	644.78	-	-	644.78
	03/10/2010	659.46	13.98	645.48	-	-	645.48
	04/14/2010	659.46	12.99	646.47	-	-	646.47
	05/12/2010	659.46	14.63	644.83	-	-	644.83
	06/17/2010	659.46	14.42	645.04	-	-	645.04
	07/14/2010	659.46	15.03	644.43	-	-	644.43
	08/09/2010	659.46	14.79	644.67	-	-	644.67
	09/16/2010	659.46	14.78	644.68	-	-	644.68
	10/13/2010	659.46	13.19	646.27	-	-	646.27
	11/16/2010	659.46	11.96	647.50	-	-	647.50
	12/16/2010	659.46	12.74	646.72	-	-	646.72
	01/13/2011	659.46	13.15	646.31	-	-	646.31
	03/14/2011	659.46	12.14	647.32	-	-	647.32
	04/12/2011	659.46	12.88	646.58	-	-	646.58
	05/19/2011	659.46	11.81	647.65	-	-	647.65
	06/20/2011	659.46	11.94	647.52	-	-	647.52
	07/13/2011	659.46	13.52	645.94	-	-	645.94
	08/11/2011	659.46	12.61	646.85	-	-	646.85
	09/29/2011	659.46	13.47	645.99	-	-	645.99
	10/19/2011	659.46	13.42	646.04	-	-	646.04

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/17/2011	659.46	13.69	645.77	-	-	645.77
	12/07/2011	659.46	13.88	645.58	-	-	645.58
	01/09/2012	659.46	13.72	645.74	-	-	645.74
9-1M	04/04/2005	656.72	10.50	646.22	-	-	646.22
	05/16/2005	656.72	10.70	646.02	-	-	646.02
	06/13/2005	656.72	11.16	645.56	-	-	645.56
	07/11/2005	656.72	11.60	645.12	11.56	0.04	645.15
	08/22/2005	656.72	12.50	644.22	12.17	0.33	644.47
	10/17/2005	656.72	9.25	647.47	-	-	647.47
	01/09/2006	656.72	9.12	647.60	-	-	647.60
	04/03/2006	656.72	8.12	648.60	-	-	648.60
	05/31/2006	656.72	9.18	647.54	-	-	647.54
	06/12/2006	656.72	NR	-	NR	-	-
	08/02/2006	656.72	NR	-	NR	-	-
	09/06/2006	656.72	11.06	645.66	-	-	645.66
	11/01/2006	656.72	10.15	646.57	-	-	646.57
	01/09/2007	656.72	9.10	647.62	-	-	647.62
	05/07/2007	656.72	7.78	648.94	-	-	648.94
	07/24/2007	656.72	10.25	646.47	-	-	646.47
	10/16/2007	656.72	12.35	644.37	12.22	0.13	644.47
	01/11/2008	656.72	9.94	646.78	-	-	646.78
	07/07/2008	656.72	9.65	647.07	-	-	647.07
9-2M	04/04/2005	655.60	7.93	647.67	-	-	647.67
	05/16/2005	655.60	8.41	647.19	-	-	647.19
	06/13/2005	655.60	8.93	646.67	-	-	646.67
	07/11/2005	655.60	9.06	646.54	-	-	646.54
	08/22/2005	655.60	9.88	645.72	-	-	645.72
	10/17/2005	655.60	7.28	648.32	-	-	648.32
	01/09/2006	655.60	7.22	648.38	-	-	648.38
	04/03/2006	655.60	6.30	649.30	-	-	649.30
	05/31/2006	655.60	7.19	648.41	-	-	648.41
	06/12/2006	655.60	NR	-	NR	-	-
	08/02/2006	655.60	NR	-	NR	-	-
	09/06/2006	655.60	9.08	646.52	-	-	646.52
	11/01/2006	655.60	8.13	647.47	-	-	647.47
	01/09/2007	655.60	7.23	648.37	-	-	648.37
	05/07/2007	655.60	5.94	649.66	-	-	649.66
	07/24/2007	655.60	7.88	647.72	-	-	647.72
	10/16/2007	655.60	9.95	645.65	-	-	645.65
	01/11/2008	655.60	7.74	647.86	-	-	647.86
	07/07/2008	655.60	7.30	648.30	-	-	648.30
	09/18/2008	655.60	7.85	647.75	-	-	647.75
	10/23/2008	655.60	8.15	647.45	-	-	647.45
	12/31/2008	655.60	4.66	650.94	-	-	650.94
	01/28/2009	655.60	5.72	649.88	-	-	649.88
	02/25/2009	655.60	6.64	648.96	-	-	648.96
	03/27/2009	655.60	5.60	650.00	-	-	650.00
	04/29/2009	655.60	5.41	650.19	-	-	650.19

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/20/2009	655.60	5.18	650.42	-	-	650.42
	06/25/2009	655.60	9.47	646.13	-	-	646.13
	07/21/2009	655.60	6.08	649.52	-	-	649.52
	08/25/2009	655.60	6.58	649.02	-	-	649.02
	09/16/2009	655.60	8.15	647.45	-	-	647.45
	10/14/2009	655.60	9.21	646.39	-	-	646.39
	11/10/2009	655.60	4.38	651.22	-	-	651.22
	12/14/2009	655.60	8.89	646.71	-	-	646.71
	01/11/2010	655.60	9.23	646.37	-	-	646.37
	02/10/2010	655.60	9.07	646.53	-	-	646.53
	03/10/2010	655.60	9.41	646.19	-	-	646.19
	04/14/2010	655.60	9.48	646.12	-	-	646.12
	05/12/2010	655.60	10.74	644.86	-	-	644.86
	06/17/2010	655.60	10.99	644.61	-	-	644.61
	07/14/2010	655.60	11.07	644.53	-	-	644.53
	08/09/2010	655.60	10.55	645.05	-	-	645.05
	09/16/2010	655.60	10.99	644.61	-	-	644.61
	10/13/2010	655.60	8.84	646.76	-	-	646.76
	11/16/2010	655.60	10.98	644.62	-	-	644.62
	12/16/2010	655.60	8.91	646.69	-	-	646.69
	01/13/2011	655.60	9.62	645.98	-	-	645.98
	03/14/2011	655.60	8.33	647.27	-	-	647.27
	04/12/2011	655.60	9.23	646.37	-	-	646.37
	05/19/2011	655.60	7.71	647.89	-	-	647.89
	06/20/2011	655.60	8.50	647.10	-	-	647.10
	07/13/2011	655.60	13.52	642.08	-	-	642.08
	08/11/2011	655.60	9.03	646.57	-	-	646.57
	09/29/2011	655.60	10.21	645.39	-	-	645.39
	10/19/2011	655.60	9.65	645.95	-	-	645.95
	11/17/2011	655.60	9.89	645.71	-	-	645.71
	12/07/2011	655.60	10.38	645.22	-	-	645.22
	01/09/2012	655.60	10.04	645.56	-	-	645.56
9-3M	04/04/2005	656.50	9.39	647.11	-	-	647.11
	05/16/2005	656.50	10.26	646.24	-	-	646.24
	06/13/2005	656.50	10.67	645.83	-	-	645.83
	07/11/2005	656.50	10.97	645.53	-	-	645.53
	08/22/2005	656.50	11.64	644.86	11.60	0.04	644.89
	10/17/2005	656.50	8.31	648.19	-	-	648.19
	01/09/2006	656.50	8.49	648.01	-	-	648.01
	04/03/2006	656.50	7.44	649.06	-	-	649.06
	05/31/2006	656.50	8.63	647.87	-	-	647.87
	06/12/2006	656.50	NR	-	NR	-	-
	08/02/2006	656.50	NR	-	NR	-	-
	09/06/2006	656.50	10.41	646.09	-	-	646.09
	11/01/2006	656.50	9.47	647.03	-	-	647.03
	01/09/2007	656.50	8.31	648.19	-	-	648.19
	05/07/2007	656.50	7.12	649.38	-	-	649.38
	07/24/2007	656.50	9.84	646.66	-	-	646.66
	10/16/2007	656.50	11.59	644.91	-	-	644.91

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2008	656.50	9.37	647.13	-	-	647.13
	07/07/2008	656.50	9.35	647.15	-	-	647.15
10-1S	04/04/2005	656.86	8.50	648.36	-	-	648.36
	05/16/2005	656.86	9.05	647.81	-	-	647.81
	06/13/2005	656.86	9.07	647.79	-	-	647.79
	07/11/2005	656.86	9.55	647.31	-	-	647.31
	08/22/2005	656.86	10.55	646.31	-	-	646.31
	10/17/2005	656.86	8.36	648.50	-	-	648.50
	01/09/2006	656.86	7.95	648.91	-	-	648.91
	04/03/2006	656.86	6.97	649.89	-	-	649.89
	05/31/2006	656.86	7.91	648.95	-	-	648.95
	06/12/2006	656.86	NR	-	NR	-	-
	08/02/2006	656.86	NR	-	NR	-	-
	09/06/2006	656.86	9.65	647.21	-	-	647.21
	11/01/2006	656.86	8.69	648.17	-	-	648.17
	01/09/2007	656.86	7.64	649.22	-	-	649.22
	05/07/2007	656.86	6.68	650.18	-	-	650.18
	07/24/2007	656.86	8.41	648.45	-	-	648.45
	10/16/2007	656.86	10.60	646.26	-	-	646.26
	01/11/2008	656.86	8.56	648.30	-	-	648.30
10-2S	04/04/2005	657.78	9.75	648.03	-	-	648.03
	05/16/2005	657.78	10.34	647.44	-	-	647.44
	06/13/2005	657.78	10.92	646.86	-	-	646.86
	07/11/2005	657.78	10.66	647.12	-	-	647.12
	08/22/2005	657.78	11.66	646.12	-	-	646.12
	10/17/2005	657.78	9.25	648.53	-	-	648.53
	01/09/2006	657.78	8.96	648.82	-	-	648.82
	04/03/2006	657.78	8.10	649.68	-	-	649.68
	05/31/2006	657.78	8.96	648.82	-	-	648.82
	06/12/2006	657.78	NR	-	NR	-	-
	08/02/2006	657.78	NR	-	NR	-	-
	09/06/2006	657.78	10.68	647.10	-	-	647.10
	11/01/2006	657.78	9.78	648.00	-	-	648.00
	01/09/2007	657.78	8.89	648.89	-	-	648.89
	05/07/2007	657.78	7.68	650.10	-	-	650.10
	07/24/2007	657.78	9.63	648.15	-	-	648.15
	10/16/2007	657.78	11.84	645.94	-	-	645.94
	01/11/2008	657.78	9.75	648.03	-	-	648.03
	09/18/2008	657.78	9.22	648.56	-	-	648.56
	10/23/2008	657.78	9.80	647.98	-	-	647.98
	12/31/2008	657.78	6.46	651.32	-	-	651.32
	01/28/2009	657.78	NR	-	NR	-	-
	02/25/2009	657.78	6.32	651.46	-	-	651.46
	03/27/2009	657.78	7.29	650.49	-	-	650.49
	04/29/2009	657.78	6.88	650.90	-	-	650.90
	05/20/2009	657.78	6.25	651.53	-	-	651.53
	06/25/2009	657.78	6.97	650.81	-	-	650.81
	07/21/2009	657.78	7.53	650.25	-	-	650.25

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/25/2009	657.78	7.62	650.16	-	-	650.16
	09/16/2009	657.78	16.96	640.82	-	-	640.82
	10/14/2009	657.78	10.61	647.17	-	-	647.17
	11/10/2009	657.78	10.93	646.85	-	-	646.85
	12/14/2009	657.78	11.31	646.47	-	-	646.47
	01/11/2010	657.78	11.72	646.06	-	-	646.06
	02/10/2010	657.78	11.74	646.04	-	-	646.04
	03/10/2010	657.78	11.99	645.79	-	-	645.79
	04/14/2010	657.78	11.91	645.87	-	-	645.87
	05/12/2010	657.78	12.25	645.53	-	-	645.53
	06/17/2010	657.78	12.54	645.24	-	-	645.24
	07/14/2010	657.78	12.73	645.05	-	-	645.05
	08/09/2010	657.78	12.39	645.39	-	-	645.39
	09/16/2010	657.78	12.63	645.15	-	-	645.15
	10/13/2010	657.78	10.59	647.19	-	-	647.19
	11/16/2010	657.78	10.89	646.89	-	-	646.89
	12/16/2010	657.78	NR	-	NR	-	-
	01/13/2011	657.78	NR	-	NR	-	-
	03/14/2011	657.78	10.12	647.66	-	-	647.66
	04/12/2011	657.78	10.81	646.97	-	-	646.97
	05/19/2011	657.78	9.58	648.20	-	-	648.20
	06/20/2011	657.78	9.91	647.87	-	-	647.87
	07/13/2011	657.78	13.52	644.26	-	-	644.26
	08/11/2011	657.78	10.59	647.19	-	-	647.19
	09/29/2011	657.78	11.63	646.15	-	-	646.15
	10/19/2011	657.78	10.46	647.32	-	-	647.32
	11/17/2011	657.78	11.70	646.08	-	-	646.08
	12/07/2011	657.78	11.74	646.04	-	-	646.04
	01/09/2012	657.78	NR	-	NR	-	-
10-3S	04/04/2005	658.69	10.35	648.34	-	-	648.34
	05/16/2005	658.69	11.10	647.59	-	-	647.59
	06/13/2005	658.69	11.74	646.95	-	-	646.95
	07/11/2005	658.69	11.38	647.31	-	-	647.31
	08/22/2005	658.69	12.53	646.16	-	-	646.16
	10/17/2005	658.69	10.08	648.61	-	-	648.61
	01/09/2006	658.69	9.77	648.92	-	-	648.92
	04/03/2006	658.69	8.99	649.70	-	-	649.70
	05/31/2006	658.69	9.79	648.90	-	-	648.90
	06/12/2006	658.69	NR	-	NR	-	-
	08/02/2006	658.69	NR	-	NR	-	-
	09/06/2006	658.69	11.41	647.28	-	-	647.28
	11/01/2006	658.69	10.55	648.14	-	-	648.14
	01/09/2007	658.69	9.73	648.96	-	-	648.96
	05/07/2007	658.69	8.51	650.18	-	-	650.18
	07/24/2007	658.69	10.44	648.25	-	-	648.25
	10/16/2007	658.69	12.67	646.02	-	-	646.02
	01/11/2008	658.69	10.41	648.28	-	-	648.28
10-4S	04/04/2005	659.65	11.24	648.41	-	-	648.41

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/16/2005	659.65	11.87	647.78	-	-	647.78
	06/13/2005	659.65	12.61	647.04	-	-	647.04
	07/11/2005	659.65	12.30	647.35	-	-	647.35
	08/22/2005	659.65	12.74	646.91	-	-	646.91
	10/17/2005	659.65	11.38	648.27	-	-	648.27
	01/09/2006	659.65	11.00	648.65	-	-	648.65
	04/03/2006	659.65	NR	-	NR	-	-
	05/31/2006	659.65	10.94	648.71	-	-	648.71
	06/12/2006	659.65	NR	-	NR	-	-
	08/02/2006	659.65	NR	-	NR	-	-
	09/06/2006	659.65	12.21	647.44	-	-	647.44
	11/01/2006	659.65	11.75	647.90	-	-	647.90
	01/09/2007	659.65	10.68	648.97	-	-	648.97
	05/07/2007	659.65	9.75	649.90	-	-	649.90
	07/24/2007	659.65	11.57	648.08	-	-	648.08
	10/16/2007	659.65	13.25	646.40	-	-	646.40
	01/11/2008	659.65	NR	-	NR	-	-
10-5S	04/04/2005	661.74	15.04	646.70	-	-	646.70
	05/16/2005	661.74	15.18	646.56	-	-	646.56
	06/13/2005	661.74	15.59	646.15	-	-	646.15
	07/11/2005	661.74	15.66	646.08	-	-	646.08
	08/22/2005	661.74	16.26	645.48	-	-	645.48
	10/17/2005	661.74	14.44	647.30	-	-	647.30
	01/09/2006	661.74	13.68	648.06	-	-	648.06
	04/03/2006	661.74	12.72	649.02	-	-	649.02
	05/31/2006	661.74	13.58	648.16	-	-	648.16
	06/12/2006	661.74	NR	-	NR	-	-
	08/02/2006	661.74	NR	-	NR	-	-
	09/06/2006	661.74	15.09	646.65	-	-	646.65
	11/01/2006	661.74	14.73	647.01	-	-	647.01
	01/09/2007	661.74	13.62	648.12	-	-	648.12
	05/07/2007	661.74	12.36	649.38	-	-	649.38
07/24/2007	661.74	14.30	647.44	-	-	647.44	
10/16/2007	661.74	16.23	645.51	-	-	645.51	
01/11/2008	661.74	15.01	646.73	-	-	646.73	
10-6S	04/04/2005	662.91	16.28	646.63	-	-	646.63
	05/16/2005	662.91	16.38	646.53	-	-	646.53
	06/13/2005	662.91	16.78	646.13	-	-	646.13
	07/11/2005	662.91	16.85	646.06	-	-	646.06
	08/22/2005	662.91	17.33	645.58	-	-	645.58
	10/17/2005	662.91	15.68	647.23	-	-	647.23
	01/09/2006	662.91	14.89	648.02	-	-	648.02
	04/03/2006	662.91	13.96	648.95	-	-	648.95
	05/31/2006	662.91	14.83	648.08	-	-	648.08
	06/12/2006	662.91	NR	-	NR	-	-
	08/02/2006	662.91	NR	-	NR	-	-
	09/06/2006	662.91	16.28	646.63	-	-	646.63
11/01/2006	662.91	15.98	646.93	-	-	646.93	

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/09/2007	662.91	14.86	648.05	-	-	648.05
	05/07/2007	662.91	13.66	649.25	-	-	649.25
	07/24/2007	662.91	15.48	647.43	-	-	647.43
	10/16/2007	662.91	17.25	645.66	-	-	645.66
	01/11/2008	662.91	16.28	646.63	-	-	646.63
	09/18/2008	662.91	15.18	647.73	-	-	647.73
	10/23/2008	662.91	15.50	647.41	-	-	647.41
	12/31/2008	662.91	12.45	650.46	-	-	650.46
	01/28/2009	662.91	13.15	649.76	-	-	649.76
	02/25/2009	662.91	13.00	649.91	-	-	649.91
	03/27/2009	662.91	13.32	649.59	-	-	649.59
	04/29/2009	662.91	13.03	649.88	-	-	649.88
	05/20/2009	662.91	13.04	649.87	-	-	649.87
	06/25/2009	662.91	12.69	650.22	-	-	650.22
	07/21/2009	662.91	13.38	649.53	-	-	649.53
	08/25/2009	662.91	13.42	649.49	-	-	649.49
	09/16/2009	662.91	15.16	647.75	-	-	647.75
	10/14/2009	662.91	15.49	647.42	-	-	647.42
	11/10/2009	662.91	15.09	647.82	-	-	647.82
	12/14/2009	662.91	16.32	646.59	-	-	646.59
	01/11/2010	662.91	16.59	646.32	-	-	646.32
	02/10/2010	662.91	16.72	646.19	-	-	646.19
	03/10/2010	662.91	17.21	645.70	-	-	645.70
	04/14/2010	662.91	16.99	645.92	-	-	645.92
	05/12/2010	662.91	17.36	645.55	-	-	645.55
	06/17/2010	662.91	17.37	645.54	-	-	645.54
	07/14/2010	662.91	17.66	645.25	-	-	645.25
	08/09/2010	662.91	17.41	645.50	-	-	645.50
	09/16/2010	662.91	17.48	645.43	-	-	645.43
	10/13/2010	662.91	16.14	646.77	-	-	646.77
	11/16/2010	662.91	11.68	651.23	-	-	651.23
	12/16/2010	662.91	15.68	647.23	-	-	647.23
	01/13/2011	662.91	16.08	646.83	-	-	646.83
	03/14/2011	662.91	15.51	647.40	-	-	647.40
	04/12/2011	662.91	15.79	647.12	-	-	647.12
	05/19/2011	662.91	14.62	648.29	-	-	648.29
	06/20/2011	662.91	14.79	648.12	-	-	648.12
	07/13/2011	662.91	13.52	649.39	-	-	649.39
	08/11/2011	662.91	15.01	647.90	-	-	647.90
	09/29/2011	662.91	16.24	646.67	-	-	646.67
	10/19/2011	662.91	16.03	646.88	-	-	646.88
	11/17/2011	662.91	16.55	646.36	-	-	646.36
	12/07/2011	662.91	16.53	646.38	-	-	646.38
	01/09/2012	662.91	16.58	646.33	-	-	646.33
11-1S	04/04/2005	657.40	9.16	648.24	-	-	648.24
	05/16/2005	657.40	9.26	648.14	-	-	648.14
	06/13/2005	657.40	9.79	647.61	-	-	647.61
	07/11/2005	657.40	9.81	647.59	-	-	647.59
	08/22/2005	657.40	10.51	646.89	-	-	646.89

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/17/2005	657.40	NR	-	NR	-	-
	01/09/2006	657.40	NR	-	NR	-	-
	04/03/2006	657.40	NR	-	NR	-	-
	05/31/2006	657.40	8.01	649.39	-	-	649.39
	06/12/2006	657.40	NR	-	NR	-	-
	08/02/2006	657.40	NR	-	NR	-	-
	09/06/2006	657.40	9.76	647.64	-	-	647.64
	11/01/2006	657.40	NR	-	NR	-	-
	01/09/2007	657.40	NR	-	NR	-	-
	05/07/2007	657.40	6.79	650.61	-	-	650.61
	07/24/2007	657.40	8.51	648.89	-	-	648.89
	10/16/2007	657.40	NR	-	NR	-	-
	01/11/2008	657.40	NR	-	NR	-	-
11-2S	04/04/2005	658.40	10.12	648.28	-	-	648.28
	05/16/2005	658.40	10.24	648.16	-	-	648.16
	06/13/2005	658.40	10.73	647.67	-	-	647.67
	07/11/2005	658.40	10.70	647.70	-	-	647.70
	08/22/2005	658.40	11.33	647.07	-	-	647.07
	10/17/2005	658.40	NR	-	NR	-	-
	01/09/2006	658.40	NR	-	NR	-	-
	04/03/2006	658.40	8.17	650.23	-	-	650.23
	05/31/2006	658.40	8.93	649.47	-	-	649.47
	06/12/2006	658.40	NR	-	NR	-	-
	08/02/2006	658.40	NR	-	NR	-	-
	09/06/2006	658.40	10.59	647.81	-	-	647.81
	11/01/2006	658.40	9.72	648.68	-	-	648.68
	01/09/2007	658.40	NR	-	NR	-	-
	05/07/2007	658.40	7.72	650.68	-	-	650.68
	07/24/2007	658.40	9.37	649.03	-	-	649.03
	10/16/2007	658.40	11.21	647.19	-	-	647.19
	01/11/2008	658.40	NR	-	NR	-	-
11-3S	04/04/2005	659.30	NR	-	NR	-	-
	05/16/2005	659.30	11.32	647.98	-	-	647.98
	06/13/2005	659.30	11.83	647.47	-	-	647.47
	07/11/2005	659.30	11.90	647.40	-	-	647.40
	08/22/2005	659.30	12.46	646.84	-	-	646.84
	10/17/2005	659.30	NR	-	NR	-	-
	01/09/2006	659.30	NR	-	NR	-	-
	04/03/2006	659.30	NR	-	NR	-	-
	05/31/2006	659.30	9.73	649.57	-	-	649.57
	06/12/2006	659.30	NR	-	NR	-	-
	08/02/2006	659.30	NR	-	NR	-	-
	09/06/2006	659.30	11.47	647.83	-	-	647.83
	11/01/2006	659.30	10.86	648.44	-	-	648.44
	01/09/2007	659.30	NR	-	NR	-	-
	05/07/2007	659.30	8.43	650.87	-	-	650.87
	07/24/2007	659.30	NR	-	NR	-	-
	10/16/2007	659.30	NR	-	NR	-	-

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2008	659.30	NR	-	NR	-	-
11-4S	04/04/2005	660.38	12.63	647.75	-	-	647.75
	05/16/2005	660.38	12.61	647.77	-	-	647.77
	06/13/2005	660.38	13.04	647.34	-	-	647.34
	07/11/2005	660.38	13.12	647.26	-	-	647.26
	08/22/2005	660.38	13.60	646.78	-	-	646.78
	10/17/2005	660.38	NR	-	NR	-	-
	01/09/2006	660.38	NR	-	NR	-	-
	04/03/2006	660.38	10.15	650.23	-	-	650.23
	05/31/2006	660.38	11.10	649.28	-	-	649.28
	06/12/2006	660.38	NR	-	NR	-	-
	08/02/2006	660.38	NR	-	NR	-	-
	09/06/2006	660.38	12.65	647.73	-	-	647.73
	11/01/2006	660.38	12.20	648.18	-	-	648.18
	01/09/2007	660.38	NR	-	NR	-	-
	05/07/2007	660.38	9.89	650.49	-	-	650.49
	07/24/2007	660.38	11.60	648.78	-	-	648.78
10/16/2007	660.38	13.68	646.70	-	-	646.70	
01/11/2008	660.38	NR	-	NR	-	-	
12-1M	04/04/2005	661.90	20.93	640.97	-	-	640.97
	05/16/2005	661.90	20.73	641.17	-	-	641.17
	06/13/2005	661.90	21.06	640.84	-	-	640.84
	07/11/2005	661.90	21.45	640.45	-	-	640.45
	08/22/2005	661.90	21.92	639.98	-	-	639.98
	10/17/2005	661.90	20.80	641.10	-	-	641.10
	01/09/2006	661.90	18.56	643.34	-	-	643.34
	04/03/2006	661.90	18.61	643.29	-	-	643.29
	05/31/2006	661.90	19.60	642.30	-	-	642.30
	06/12/2006	661.90	NR	-	NR	-	-
	08/02/2006	661.90	20.58	641.32	-	-	641.32
	09/06/2006	661.90	21.15	640.75	-	-	640.75
	11/01/2006	661.90	21.28	640.62	-	-	640.62
	01/09/2007	661.90	19.80	642.10	-	-	642.10
	05/07/2007	661.90	18.68	643.22	-	-	643.22
	07/24/2007	661.90	20.17	641.73	-	-	641.73
10/16/2007	661.90	21.89	640.01	-	-	640.01	
01/11/2008	661.90	21.44	640.46	-	-	640.46	
06/30/2008	661.90	20.00	641.90	-	-	641.90	
12-2M	04/04/2005	661.87	20.38	641.49	-	-	641.49
	05/16/2005	661.87	20.16	641.71	-	-	641.71
	06/13/2005	661.87	20.50	641.37	-	-	641.37
	07/11/2005	661.87	20.86	641.01	-	-	641.01
	08/22/2005	661.87	21.33	640.54	-	-	640.54
	10/17/2005	661.87	20.17	641.70	-	-	641.70
	01/09/2006	661.87	18.92	642.95	-	-	642.95
	04/03/2006	661.87	17.74	644.13	-	-	644.13
05/31/2006	661.87	19.11	642.76	-	-	642.76	

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/12/2006	661.87	NR	-	NR	-	-
	08/02/2006	661.87	20.03	641.84	-	-	641.84
	09/06/2006	661.87	20.51	641.36	-	-	641.36
	11/01/2006	661.87	20.69	641.18	-	-	641.18
	01/09/2007	661.87	19.17	642.70	-	-	642.70
	05/07/2007	661.87	18.04	643.83	-	-	643.83
	07/24/2007	661.87	19.59	642.28	-	-	642.28
	10/16/2007	661.87	21.50	640.37	-	-	640.37
	01/11/2008	661.87	20.83	641.04	-	-	641.04
	06/30/2008	661.87	19.25	642.62	-	-	642.62
	09/18/2008	661.87	19.80	642.07	-	-	642.07
	10/23/2008	661.87	20.15	641.72	-	-	641.72
	12/31/2008	661.87	17.48	644.39	-	-	644.39
	01/28/2009	661.87	17.22	644.65	-	-	644.65
	02/25/2009	661.87	17.54	644.33	-	-	644.33
	03/27/2009	661.87	17.66	644.21	-	-	644.21
	04/29/2009	661.87	17.68	644.19	-	-	644.19
	05/20/2009	661.87	17.82	644.05	-	-	644.05
	06/25/2009	661.87	17.13	644.74	-	-	644.74
	07/21/2009	661.87	17.96	643.91	-	-	643.91
	08/25/2009	661.87	18.61	643.26	-	-	643.26
	09/16/2009	661.87	15.02	646.85	-	-	646.85
	10/14/2009	661.87	19.59	642.28	-	-	642.28
	11/10/2009	661.87	19.91	641.96	-	-	641.96
	12/14/2009	661.87	20.24	641.63	-	-	641.63
	01/11/2010	661.87	20.33	641.54	-	-	641.54
	02/10/2010	661.87	20.22	641.65	-	-	641.65
	03/10/2010	661.87	20.89	640.98	-	-	640.98
	04/14/2010	661.87	20.64	641.23	-	-	641.23
	05/12/2010	661.87	21.06	640.81	-	-	640.81
	06/17/2010	661.87	21.56	640.31	-	-	640.31
	07/14/2010	661.87	21.82	640.05	-	-	640.05
	08/09/2010	661.87	21.69	640.18	-	-	640.18
	09/16/2010	661.87	21.61	640.26	-	-	640.26
	10/13/2010	661.87	20.46	641.41	-	-	641.41
	11/16/2010	661.87	20.17	641.70	-	-	641.70
	12/16/2010	661.87	19.79	642.08	-	-	642.08
	01/13/2011	661.87	19.64	642.23	-	-	642.23
	03/14/2011	661.87	19.37	642.50	-	-	642.50
	04/12/2011	661.87	19.04	642.83	-	-	642.83
	05/19/2011	661.87	18.28	643.59	-	-	643.59
	06/20/2011	661.87	18.16	643.71	-	-	643.71
	07/13/2011	661.87	13.52	648.35	-	-	648.35
	08/11/2011	661.87	18.50	643.37	-	-	643.37
	09/29/2011	661.87	19.77	642.10	-	-	642.10
	10/19/2011	661.87	20.13	641.74	-	-	641.74
	11/17/2011	661.87	20.08	641.79	-	-	641.79
	12/07/2011	661.87	20.43	641.44	-	-	641.44
	01/09/2012	661.87	20.39	641.48	-	-	641.48

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
12-3M	04/04/2005	663.03	21.42	641.61	21.41	0.01	641.62
	05/16/2005	663.03	21.15	641.88	-	-	641.88
	06/13/2005	663.03	21.48	641.55	-	-	641.55
	07/11/2005	663.03	21.82	641.21	-	-	641.21
	08/22/2005	663.03	22.31	640.72	-	-	640.72
	10/17/2005	663.03	21.23	641.80	-	-	641.80
	01/09/2006	663.03	19.94	643.09	-	-	643.09
	04/03/2006	663.03	18.91	644.12	-	-	644.12
	05/31/2006	663.03	19.93	643.10	-	-	643.10
	06/12/2006	663.03	NR	-	NR	-	-
	08/02/2006	663.03	21.18	641.85	21.14	0.04	641.88
	09/06/2006	663.03	21.54	641.49	-	-	641.49
	11/01/2006	663.03	21.77	641.26	-	-	641.26
	01/09/2007	663.03	20.21	642.82	-	-	642.82
	05/07/2007	663.03	19.05	643.98	-	-	643.98
	07/24/2007	663.03	20.71	642.32	-	-	642.32
	10/16/2007	663.03	22.46	640.57	-	-	640.57
	01/11/2008	663.03	21.96	641.07	-	-	641.07
06/30/2008	663.03	20.40	642.63	-	-	642.63	
12-4M	04/04/2005	662.17	19.59	642.58	-	-	642.58
	05/16/2005	662.17	19.30	642.87	-	-	642.87
	06/13/2005	662.17	19.61	642.56	-	-	642.56
	07/11/2005	662.17	19.97	642.20	-	-	642.20
	08/22/2005	662.17	20.39	641.78	-	-	641.78
	10/17/2005	662.17	19.31	642.86	-	-	642.86
	01/09/2006	662.17	18.06	644.11	-	-	644.11
	04/03/2006	662.17	17.02	645.15	-	-	645.15
	05/31/2006	662.17	18.02	644.15	-	-	644.15
	06/12/2006	662.17	NR	-	NR	-	-
	08/02/2006	662.17	19.29	642.88	-	-	642.88
	09/06/2006	662.17	19.60	642.57	-	-	642.57
	11/01/2006	662.17	19.82	642.35	-	-	642.35
	01/09/2007	662.17	18.28	643.89	-	-	643.89
	05/07/2007	662.17	17.13	645.04	-	-	645.04
	07/24/2007	662.17	18.85	643.32	-	-	643.32
	10/16/2007	662.17	20.56	641.61	-	-	641.61
	01/11/2008	662.17	19.92	642.25	-	-	642.25
	06/30/2008	662.17	18.45	643.72	-	-	643.72
	09/18/2008	662.17	19.05	643.12	-	-	643.12
	10/23/2008	662.17	19.35	642.82	-	-	642.82
	12/31/2008	662.17	15.66	646.51	-	-	646.51
	01/28/2009	662.17	16.42	645.75	-	-	645.75
	02/25/2009	662.17	16.79	645.38	-	-	645.38
03/27/2009	662.17	16.71	645.46	-	-	645.46	
04/29/2009	662.17	16.94	645.23	-	-	645.23	
05/20/2009	662.17	17.08	645.09	-	-	645.09	
06/25/2009	662.17	16.51	645.66	-	-	645.66	
07/21/2009	662.17	17.16	645.01	-	-	645.01	
08/25/2009	662.17	17.80	644.37	-	-	644.37	

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/16/2009	662.17	13.85	648.32	-	-	648.32
	10/14/2009	662.17	18.68	643.49	-	-	643.49
	11/10/2009	662.17	18.98	643.19	-	-	643.19
	12/14/2009	662.17	19.43	642.74	-	-	642.74
	01/11/2010	662.17	19.54	642.63	-	-	642.63
	02/10/2010	662.17	19.43	642.74	-	-	642.74
	03/10/2010	662.17	19.86	642.31	-	-	642.31
	04/14/2010	662.17	19.72	642.45	-	-	642.45
	05/12/2010	662.17	20.02	642.15	-	-	642.15
	06/17/2010	662.17	20.61	641.56	-	-	641.56
	07/14/2010	662.17	20.91	641.26	-	-	641.26
	08/09/2010	662.17	20.76	641.41	-	-	641.41
	09/16/2010	662.17	20.58	641.59	-	-	641.59
	10/13/2010	662.17	19.39	642.78	-	-	642.78
	11/16/2010	662.17	20.31	641.86	-	-	641.86
	12/16/2010	662.17	18.92	643.25	-	-	643.25
	01/13/2011	662.17	18.54	643.63	-	-	643.63
	03/14/2011	662.17	18.51	643.66	-	-	643.66
	04/12/2011	662.17	18.18	643.99	-	-	643.99
	05/19/2011	662.17	17.42	644.75	-	-	644.75
	06/20/2011	662.17	17.30	644.87	-	-	644.87
	07/13/2011	662.17	13.52	648.65	-	-	648.65
	08/11/2011	662.17	17.78	644.39	-	-	644.39
	09/29/2011	662.17	18.91	643.26	-	-	643.26
	10/19/2011	662.17	19.23	642.94	-	-	642.94
	11/17/2011	662.17	19.25	642.92	-	-	642.92
	12/07/2011	662.17	19.51	642.66	-	-	642.66
	01/09/2012	662.17	19.53	642.64	-	-	642.64
12-5M	04/04/2005	663.37	20.97	642.40	-	-	642.40
	05/16/2005	663.37	20.68	642.69	-	-	642.69
	06/13/2005	663.37	20.98	642.39	-	-	642.39
	07/11/2005	663.37	21.32	642.05	-	-	642.05
	08/22/2005	663.37	21.77	641.60	-	-	641.60
	10/17/2005	663.37	20.70	642.67	-	-	642.67
	01/09/2006	663.37	19.41	643.96	-	-	643.96
	04/03/2006	663.37	18.34	645.03	-	-	645.03
	05/31/2006	663.37	19.37	644.00	-	-	644.00
	06/12/2006	663.37	NR	-	NR	-	-
	08/02/2006	663.37	19.88	643.49	-	-	643.49
	09/06/2006	663.37	20.99	642.38	-	-	642.38
	11/01/2006	663.37	21.30	642.07	-	-	642.07
	01/09/2007	663.37	19.69	643.68	-	-	643.68
	05/07/2007	663.37	18.53	644.84	-	-	644.84
	07/24/2007	663.37	20.52	642.85	-	-	642.85
	10/16/2007	663.37	22.14	641.23	-	-	641.23
	01/11/2008	663.37	21.41	641.96	-	-	641.96
	06/30/2008	663.37	19.85	643.52	-	-	643.52
12-6M	04/04/2005	663.72	20.16	643.56	-	-	643.56

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/16/2005	663.72	19.86	643.86	-	-	643.86
	06/13/2005	663.72	20.17	643.55	-	-	643.55
	07/11/2005	663.72	20.50	643.22	-	-	643.22
	08/22/2005	663.72	20.89	642.83	-	-	642.83
	10/17/2005	663.72	19.85	643.87	-	-	643.87
	01/09/2006	663.72	18.53	645.19	-	-	645.19
	04/03/2006	663.72	17.47	646.25	-	-	646.25
	05/31/2006	663.72	18.49	645.23	-	-	645.23
	06/12/2006	663.72	NR	-	NR	-	-
	08/02/2006	663.72	19.81	643.91	-	-	643.91
	09/06/2006	663.72	20.05	643.67	-	-	643.67
	11/01/2006	663.72	20.30	643.42	-	-	643.42
	01/09/2007	663.72	18.77	644.95	-	-	644.95
	05/07/2007	663.72	17.58	646.14	-	-	646.14
	07/24/2007	663.72	19.59	644.13	-	-	644.13
	10/16/2007	663.72	21.04	642.68	-	-	642.68
	01/11/2008	663.72	20.56	643.16	-	-	643.16
	06/30/2008	663.72	18.75	644.97	-	-	644.97
12-7M	04/04/2005	664.24	20.81	643.43	-	-	643.43
	05/16/2005	664.24	20.50	643.74	-	-	643.74
	06/13/2005	664.24	20.80	643.44	-	-	643.44
	07/11/2005	664.24	21.13	643.11	-	-	643.11
	08/22/2005	664.24	21.53	642.71	-	-	642.71
	10/17/2005	664.24	20.55	643.69	-	-	643.69
	01/09/2006	664.24	19.21	645.03	-	-	645.03
	04/03/2006	664.24	18.05	646.19	-	-	646.19
	05/31/2006	664.24	19.15	645.09	-	-	645.09
	06/12/2006	664.24	NR	-	NR	-	-
	08/02/2006	664.24	20.60	643.64	-	-	643.64
	09/06/2006	664.24	20.74	643.50	-	-	643.50
	11/01/2006	664.24	21.08	643.16	-	-	643.16
	01/09/2007	664.24	19.48	644.76	-	-	644.76
	05/07/2007	664.24	18.23	646.01	-	-	646.01
	07/24/2007	664.24	20.63	643.61	-	-	643.61
	10/16/2007	664.24	21.78	642.46	-	-	642.46
	01/11/2008	664.24	21.23	643.01	-	-	643.01
	06/30/2008	664.24	19.60	644.64	-	-	644.64
12-8M	04/04/2005	664.81	20.24	644.57	-	-	644.57
	05/16/2005	664.81	19.97	644.84	-	-	644.84
	06/13/2005	664.81	20.27	644.54	-	-	644.54
	07/11/2005	664.81	20.60	644.21	-	-	644.21
	08/22/2005	664.81	20.97	643.84	-	-	643.84
	10/17/2005	664.81	19.93	644.88	-	-	644.88
	01/09/2006	664.81	18.62	646.19	-	-	646.19
	04/03/2006	664.81	17.51	647.30	-	-	647.30
	05/31/2006	664.81	18.56	646.25	-	-	646.25
	06/12/2006	664.81	NR	-	NR	-	-
	08/02/2006	664.81	19.70	645.11	-	-	645.11

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/06/2006	664.81	20.05	644.76	-	-	644.76
	11/01/2006	664.81	20.23	644.58	-	-	644.58
	01/09/2007	664.81	18.79	646.02	-	-	646.02
	05/07/2007	664.81	17.57	647.24	-	-	647.24
	07/24/2007	664.81	19.54	645.27	-	-	645.27
	10/16/2007	664.81	20.89	643.92	-	-	643.92
	01/11/2008	664.81	20.31	644.50	-	-	644.50
	06/30/2008	664.81	18.75	646.06	-	-	646.06
	09/18/2008	664.81	19.30	645.51	-	-	645.51
	10/23/2008	664.81	19.60	645.21	-	-	645.21
	12/31/2008	664.81	16.93	647.88	-	-	647.88
	01/28/2009	664.81	16.66	648.15	-	-	648.15
	02/25/2009	664.81	16.91	647.90	-	-	647.90
	03/27/2009	664.81	17.02	647.79	-	-	647.79
	04/29/2009	664.81	17.08	647.73	-	-	647.73
	05/20/2009	664.81	17.16	647.65	-	-	647.65
	06/25/2009	664.81	16.61	648.20	-	-	648.20
	07/21/2009	664.81	17.28	647.53	-	-	647.53
	08/25/2009	664.81	17.85	646.96	-	-	646.96
	09/16/2009	664.81	12.49	652.32	-	-	652.32
	10/14/2009	664.81	18.84	645.97	-	-	645.97
	11/10/2009	664.81	19.16	645.65	-	-	645.65
	12/14/2009	664.81	19.59	645.22	-	-	645.22
	01/11/2010	664.81	19.74	645.07	-	-	645.07
	02/10/2010	664.81	19.62	645.19	-	-	645.19
	03/10/2010	664.81	20.17	644.64	-	-	644.64
	04/14/2010	664.81	20.04	644.77	-	-	644.77
	05/12/2010	664.81	20.38	644.43	-	-	644.43
	06/17/2010	664.81	20.85	643.96	-	-	643.96
	07/14/2010	664.81	21.14	643.67	-	-	643.67
	08/09/2010	664.81	20.94	643.87	-	-	643.87
	09/16/2010	664.81	20.91	643.90	-	-	643.90
	10/13/2010	664.81	19.54	645.27	-	-	645.27
	11/16/2010	664.81	19.51	645.30	-	-	645.30
	12/16/2010	664.81	19.14	645.67	-	-	645.67
	01/13/2011	664.81	18.96	645.85	-	-	645.85
	03/14/2011	664.81	18.61	646.20	-	-	646.20
	04/12/2011	664.81	18.36	646.45	-	-	646.45
	05/19/2011	664.81	17.51	647.30	-	-	647.30
	06/20/2011	664.81	17.39	647.42	-	-	647.42
	07/13/2011	664.81	13.52	651.29	-	-	651.29
	08/11/2011	664.81	17.83	646.98	-	-	646.98
	09/29/2011	664.81	18.99	645.82	-	-	645.82
	10/19/2011	664.81	19.27	645.54	-	-	645.54
	11/17/2011	664.81	20.03	644.78	-	-	644.78
	12/07/2011	664.81	19.70	645.11	-	-	645.11
	01/09/2012	664.81	19.76	645.05	-	-	645.05
12-9M	04/04/2005	665.19	20.73	644.46	-	-	644.46
	05/16/2005	665.19	20.44	644.75	-	-	644.75

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/13/2005	665.19	20.73	644.46	-	-	644.46
	07/11/2005	665.19	21.06	644.13	-	-	644.13
	08/22/2005	665.19	21.43	643.76	-	-	643.76
	10/17/2005	665.19	20.44	644.75	-	-	644.75
	01/09/2006	665.19	19.11	646.08	-	-	646.08
	04/03/2006	665.19	17.94	647.25	-	-	647.25
	05/31/2006	665.19	19.03	646.16	-	-	646.16
	06/12/2006	665.19	NR	-	NR	-	-
	08/02/2006	665.19	20.07	645.12	-	-	645.12
	09/06/2006	665.19	20.53	644.66	-	-	644.66
	11/01/2006	665.19	20.78	644.41	-	-	644.41
	01/09/2007	665.19	19.33	645.86	-	-	645.86
	05/07/2007	665.19	18.05	647.14	-	-	647.14
	07/24/2007	665.19	20.22	644.97	-	-	644.97
	10/16/2007	665.19	21.33	643.86	-	-	643.86
	01/11/2008	665.19	21.03	644.16	-	-	644.16
	06/30/2008	665.19	19.45	645.74	-	-	645.74
	09/18/2008	665.19	20.01	645.18	-	-	645.18
	10/23/2008	665.19	20.30	644.89	-	-	644.89
	12/31/2008	665.19	17.75	647.44	-	-	647.44
	01/28/2009	665.19	17.28	647.91	-	-	647.91
	02/25/2009	665.19	17.57	647.62	-	-	647.62
	03/27/2009	665.19	17.46	647.73	-	-	647.73
	04/29/2009	665.19	17.72	647.47	-	-	647.47
	05/20/2009	665.19	17.83	647.36	-	-	647.36
	06/25/2009	665.19	17.28	647.91	-	-	647.91
	07/21/2009	665.19	17.94	647.25	-	-	647.25
	08/25/2009	665.19	18.53	646.66	-	-	646.66
	09/16/2009	665.19	13.71	651.48	-	-	651.48
	10/14/2009	665.19	19.47	645.72	-	-	645.72
	11/10/2009	665.19	19.81	645.38	-	-	645.38
	12/14/2009	665.19	20.21	644.98	-	-	644.98
	01/11/2010	665.19	20.36	644.83	-	-	644.83
	02/10/2010	665.19	20.20	644.99	-	-	644.99
	03/10/2010	665.19	20.75	644.44	-	-	644.44
	04/14/2010	665.19	20.59	644.60	-	-	644.60
	05/12/2010	665.19	20.96	644.23	-	-	644.23
	06/17/2010	665.19	21.42	643.77	-	-	643.77
	07/14/2010	665.19	21.74	643.45	-	-	643.45
	08/09/2010	665.19	21.58	643.61	-	-	643.61
	09/16/2010	665.19	21.23	643.96	-	-	643.96
	10/13/2010	665.19	20.23	644.96	-	-	644.96
	11/16/2010	665.19	20.16	645.03	-	-	645.03
	12/16/2010	665.19	18.91	646.28	-	-	646.28
	01/13/2011	665.19	18.68	646.51	-	-	646.51
	03/14/2011	665.19	19.17	646.02	-	-	646.02
	04/12/2011	665.19	18.86	646.33	-	-	646.33
	05/19/2011	665.19	18.01	647.18	-	-	647.18
	06/20/2011	665.19	17.94	647.25	-	-	647.25
	07/13/2011	665.19	13.52	651.67	-	-	651.67

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	08/11/2011	665.19	18.20	646.99	-	-	646.99
	09/29/2011	665.19	19.58	645.61	-	-	645.61
	10/19/2011	665.19	19.86	645.33	-	-	645.33
	11/17/2011	665.19	19.44	645.75	-	-	645.75
	12/07/2011	665.19	20.32	644.87	-	-	644.87
	01/09/2012	665.19	20.41	644.78	-	-	644.78
12-10M	04/04/2005	666.41	20.82	645.59	-	-	645.59
	05/16/2005	666.41	20.58	645.83	-	-	645.83
	06/13/2005	666.41	20.87	645.54	-	-	645.54
	07/11/2005	666.41	21.18	645.23	-	-	645.23
	08/22/2005	666.41	21.54	644.87	-	-	644.87
	10/17/2005	666.41	20.46	645.95	-	-	645.95
	01/09/2006	666.41	19.23	647.18	-	-	647.18
	04/03/2006	666.41	18.08	648.33	-	-	648.33
	05/31/2006	666.41	19.11	647.30	-	-	647.30
	06/12/2006	666.41	NR	-	NR	-	-
	08/02/2006	666.41	20.01	646.40	-	-	646.40
	09/06/2006	666.41	20.57	645.84	-	-	645.84
	11/01/2006	666.41	20.71	645.70	-	-	645.70
	01/09/2007	666.41	19.39	647.02	-	-	647.02
	05/07/2007	666.41	18.13	648.28	-	-	648.28
	07/24/2007	666.41	19.88	646.53	-	-	646.53
	10/16/2007	666.41	21.32	645.09	-	-	645.09
	01/11/2008	666.41	20.83	645.58	-	-	645.58
	06/30/2008	666.41	19.40	647.01	-	-	647.01
	09/18/2008	666.41	20.10	646.31	-	-	646.31
	10/23/2008	666.41	20.50	645.91	-	-	645.91
	12/31/2008	666.41	17.50	648.91	-	-	648.91
	01/28/2009	666.41	17.25	649.16	-	-	649.16
	02/25/2009	666.41	17.46	648.95	-	-	648.95
	03/27/2009	666.41	17.57	648.84	-	-	648.84
	04/29/2009	666.41	17.89	648.52	-	-	648.52
	05/20/2009	666.41	17.97	648.44	-	-	648.44
	06/25/2009	666.41	17.17	649.24	-	-	649.24
	07/21/2009	666.41	18.03	648.38	-	-	648.38
	08/25/2009	666.41	18.62	647.79	-	-	647.79
	09/16/2009	666.41	14.01	652.40	-	-	652.40
	10/14/2009	666.41	19.61	646.80	-	-	646.80
	11/10/2009	666.41	19.92	646.49	-	-	646.49
	12/14/2009	666.41	20.36	646.05	-	-	646.05
	01/11/2010	666.41	20.31	646.10	-	-	646.10
	02/10/2010	666.41	20.19	646.22	-	-	646.22
	03/10/2010	666.41	20.78	645.63	-	-	645.63
	04/14/2010	666.41	20.66	645.75	-	-	645.75
	05/12/2010	666.41	20.98	645.43	-	-	645.43
	06/17/2010	666.41	21.42	644.99	-	-	644.99
	07/14/2010	666.41	21.78	644.63	-	-	644.63
	08/09/2010	666.41	21.51	644.90	-	-	644.90
	09/16/2010	666.41	21.52	644.89	-	-	644.89

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/13/2010	666.41	20.04	646.37	-	-	646.37
	11/16/2010	666.41	20.09	646.32	-	-	646.32
	12/16/2010	666.41	19.69	646.72	-	-	646.72
	01/13/2011	666.41	19.75	646.66	-	-	646.66
	03/14/2011	666.41	19.13	647.28	-	-	647.28
	04/12/2011	666.41	18.92	647.49	-	-	647.49
	05/19/2011	666.41	19.02	647.39	-	-	647.39
	06/20/2011	666.41	17.93	648.48	-	-	648.48
	07/13/2011	666.41	13.52	652.89	-	-	652.89
	08/11/2011	666.41	18.51	647.90	-	-	647.90
	09/29/2011	666.41	19.50	646.91	-	-	646.91
	10/19/2011	666.41	20.75	645.66	-	-	645.66
	11/17/2011	666.41	20.01	646.40	-	-	646.40
	12/07/2011	666.41	20.24	646.17	-	-	646.17
	01/09/2012	666.41	20.28	646.13	-	-	646.13
12-11M	04/04/2005	667.26	21.90	645.36	-	-	645.36
	05/16/2005	667.26	21.64	645.62	-	-	645.62
	06/13/2005	667.26	21.85	645.41	-	-	645.41
	07/11/2005	667.26	22.10	645.16	-	-	645.16
	08/22/2005	667.26	22.61	644.65	-	-	644.65
	10/17/2005	667.26	21.53	645.73	-	-	645.73
	01/09/2006	667.26	20.26	647.00	-	-	647.00
	04/03/2006	667.26	19.03	648.23	-	-	648.23
	05/31/2006	667.26	20.15	647.11	-	-	647.11
	06/12/2006	667.26	NR	-	NR	-	-
	08/02/2006	667.26	21.07	646.19	-	-	646.19
	09/06/2006	667.26	21.66	645.60	-	-	645.60
	11/01/2006	667.26	20.75	646.51	-	-	646.51
	01/09/2007	667.26	20.40	646.86	-	-	646.86
	05/07/2007	667.26	19.10	648.16	-	-	648.16
	07/24/2007	667.26	20.97	646.29	-	-	646.29
	10/16/2007	667.26	22.35	644.91	-	-	644.91
	01/11/2008	667.26	22.02	645.24	-	-	645.24
	06/30/2008	667.26	20.40	646.86	-	-	646.86
	09/18/2008	667.26	20.93	646.33	-	-	646.33
	10/23/2008	667.26	21.20	646.06	-	-	646.06
	12/31/2008	667.26	18.60	648.66	-	-	648.66
	01/28/2009	667.26	18.20	649.06	-	-	649.06
	02/25/2009	667.26	18.43	648.83	-	-	648.83
	03/27/2009	667.26	18.50	648.76	-	-	648.76
	04/29/2009	667.26	18.61	648.65	-	-	648.65
	05/20/2009	667.26	18.64	648.62	-	-	648.62
	06/25/2009	667.26	18.13	649.13	-	-	649.13
	07/21/2009	667.26	18.71	648.55	-	-	648.55
	08/25/2009	667.26	19.32	647.94	-	-	647.94
	09/16/2009	667.26	13.80	653.46	-	-	653.46
	10/14/2009	667.26	20.26	647.00	-	-	647.00
	11/10/2009	667.26	20.59	646.67	-	-	646.67
	12/14/2009	667.26	20.98	646.28	-	-	646.28

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/11/2010	667.26	21.16	646.10	-	-	646.10
	02/10/2010	667.26	21.03	646.23	-	-	646.23
	03/10/2010	667.26	21.59	645.67	-	-	645.67
	04/14/2010	667.26	21.43	645.83	-	-	645.83
	05/12/2010	667.26	21.79	645.47	-	-	645.47
	06/17/2010	667.26	22.19	645.07	-	-	645.07
	07/14/2010	667.26	21.47	645.79	-	-	645.79
	08/09/2010	667.26	22.26	645.00	-	-	645.00
	09/16/2010	667.26	22.41	644.85	-	-	644.85
	10/13/2010	667.26	20.93	646.33	-	-	646.33
	11/16/2010	667.26	22.06	645.20	-	-	645.20
	12/16/2010	667.26	20.56	646.70	-	-	646.70
	01/13/2011	667.26	20.51	646.75	-	-	646.75
	03/14/2011	667.26	20.01	647.25	-	-	647.25
	04/12/2011	667.26	19.79	647.47	-	-	647.47
	05/19/2011	667.26	18.83	648.43	-	-	648.43
	06/20/2011	667.26	18.81	648.45	-	-	648.45
	07/13/2011	667.26	13.52	653.74	-	-	653.74
	08/11/2011	667.26	19.11	648.15	-	-	648.15
	09/29/2011	667.26	20.36	646.90	-	-	646.90
	10/19/2011	667.26	20.54	646.72	-	-	646.72
	11/17/2011	667.26	20.86	646.40	-	-	646.40
	12/07/2011	667.26	21.09	646.17	-	-	646.17
	01/09/2012	667.26	21.15	646.11	-	-	646.11
13-1S	04/04/2005	666.21	19.03	647.18	-	-	647.18
	05/16/2005	666.21	18.96	647.25	-	-	647.25
	06/13/2005	666.21	19.29	646.92	-	-	646.92
	07/11/2005	666.21	19.52	646.69	-	-	646.69
	08/22/2005	666.21	19.90	646.31	-	-	646.31
	10/17/2005	666.21	18.58	647.63	-	-	647.63
	01/09/2006	666.21	17.63	648.58	-	-	648.58
	04/03/2006	666.21	16.62	649.59	-	-	649.59
	05/31/2006	666.21	17.51	648.70	-	-	648.70
	06/12/2006	666.21	NR	-	NR	-	-
	08/02/2006	666.21	18.24	647.97	-	-	647.97
	09/06/2006	666.21	18.90	647.31	-	-	647.31
	11/01/2006	666.21	18.91	647.30	-	-	647.30
	01/09/2007	666.21	17.70	648.51	-	-	648.51
	05/07/2007	666.21	16.59	649.62	-	-	649.62
	07/24/2007	666.21	17.92	648.29	-	-	648.29
	10/16/2007	666.21	19.65	646.56	-	-	646.56
	01/11/2008	666.21	19.26	646.95	-	-	646.95
	06/30/2008	666.21	18.85	647.36	-	-	647.36
13-2S	04/04/2005	667.62	20.54	647.08	-	-	647.08
	05/16/2005	667.62	20.38	647.24	-	-	647.24
	06/13/2005	667.62	20.70	646.92	-	-	646.92
	07/11/2005	667.62	20.99	646.63	-	-	646.63
	08/22/2005	667.62	21.36	646.26	-	-	646.26

**Table D-1
Historical Well Gauging Data Summary**

Areas 3805 and 1995
Fort Drum

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/17/2005	667.62	20.05	647.57	-	-	647.57
	01/09/2006	667.62	19.05	648.57	-	-	648.57
	04/03/2006	667.62	17.97	649.65	-	-	649.65
	05/31/2006	667.62	18.92	648.70	-	-	648.70
	06/12/2006	667.62	NR	-	NR	-	-
	08/02/2006	667.62	19.66	647.96	-	-	647.96
	09/06/2006	667.62	20.32	647.30	-	-	647.30
	11/01/2006	667.62	20.37	647.25	-	-	647.25
	01/09/2007	667.62	19.20	648.42	-	-	648.42
	05/07/2007	667.62	17.96	649.66	-	-	649.66
	07/24/2007	667.62	19.43	648.19	-	-	648.19
	10/16/2007	667.62	21.10	646.52	-	-	646.52
	01/11/2008	667.62	20.71	646.91	-	-	646.91
	06/30/2008	667.62	19.25	648.37	-	-	648.37
13-3S	04/04/2005	667.41	20.45	646.96	-	-	646.96
	05/16/2005	667.41	20.25	647.16	-	-	647.16
	06/13/2005	667.41	20.59	646.82	-	-	646.82
	07/11/2005	667.41	20.85	646.56	-	-	646.56
	08/22/2005	667.41	21.20	646.21	-	-	646.21
	10/17/2005	667.41	20.02	647.39	-	-	647.39
	01/09/2006	667.41	18.93	648.48	-	-	648.48
	04/03/2006	667.41	17.72	649.69	-	-	649.69
	05/31/2006	667.41	18.78	648.63	-	-	648.63
	06/12/2006	667.41	NR	-	NR	-	-
	08/02/2006	667.41	19.59	647.82	-	-	647.82
	09/06/2006	667.41	20.19	647.22	-	-	647.22
	11/01/2006	667.41	20.29	647.12	-	-	647.12
	01/09/2007	667.41	19.13	648.28	-	-	648.28
	05/07/2007	667.41	17.70	649.71	-	-	649.71
	07/24/2007	667.41	19.31	648.10	-	-	648.10
	10/16/2007	667.41	21.93	645.48	-	-	645.48
	01/11/2008	667.41	20.61	646.80	-	-	646.80
	06/30/2008	667.41	20.15	647.26	-	-	647.26
13-4S	04/04/2005	668.78	21.72	647.06	-	-	647.06
	05/16/2005	668.78	21.47	647.31	-	-	647.31
	06/13/2005	668.78	21.81	646.97	-	-	646.97
	07/11/2005	668.78	22.08	646.70	-	-	646.70
	08/22/2005	668.78	22.55	646.23	-	-	646.23
	10/17/2005	668.78	21.23	647.55	-	-	647.55
	01/09/2006	668.78	20.15	648.63	-	-	648.63
	04/03/2006	668.78	19.09	649.69	-	-	649.69
	05/31/2006	668.78	20.07	648.71	-	-	648.71
	06/12/2006	668.78	NR	-	NR	-	-
	08/02/2006	668.78	20.74	648.04	-	-	648.04
	09/06/2006	668.78	21.44	647.34	-	-	647.34
	11/01/2006	668.78	21.45	647.33	-	-	647.33
	01/09/2007	668.78	20.38	648.40	-	-	648.40
	05/07/2007	668.78	19.12	649.66	-	-	649.66

**Table D-1
Historical Well Gauging Data Summary**

**Areas 3805 and 1995
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/24/2007	668.78	20.48	648.30	-	-	648.30
	10/16/2007	668.78	22.09	646.69	-	-	646.69
	01/11/2008	668.78	21.64	647.14	-	-	647.14
	06/30/2008	668.78	20.40	648.38	-	-	648.38

NA = Not Available/Not Analyzed
 ND = Not Detected
 NR = Not Recorded

Table D-2
 Site 3805A
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	NR	Off	NR	NR	NR	NR	NR	NR	30.30	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/02/11	NR	Off	NR	NR	NR	NR	NR	NR	30.23	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/03/11	NR	Off	NR	NR	NR	NR	NR	NR	30.03	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/04/11	NR	Off	NR	NR	NR	NR	NR	NR	30.23	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/07/11	NR	Off	NR	NR	NR	NR	NR	NR	30.22	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/08/11	NR	Off	NR	NR	NR	NR	NR	NR	30.21	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/09/11	NR	Off	NR	NR	NR	NR	NR	NR	29.98	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/10/11	NR	Off	NR	NR	NR	NR	NR	NR	29.84	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/11/11	NR	Off	NR	NR	NR	NR	NR	NR	29.69	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/14/11	NR	Off	NR	NR	NR	NR	NR	NR	29.62	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/15/11	NR	Off	NR	NR	NR	NR	NR	NR	29.72	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/16/11	NR	Off	NR	NR	NR	NR	NR	NR	29.80	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/17/11	NR	Off	NR	NR	NR	NR	NR	NR	29.89	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/18/11	NR	Off	NR	NR	NR	NR	NR	NR	30.20	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/21/11	NR	Off	NR	NR	NR	NR	NR	NR	30.38	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/22/11	NR	Off	NR	NR	NR	NR	NR	NR	30.30	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/28/11	NR	Off	NR	NR	NR	NR	NR	NR	30.05	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/29/11	NR	Off	NR	NR	NR	NR	NR	NR	29.81	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
11/30/11	NR	Off	NR	NR	NR	NR	NR	NR	29.59	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/01/11	NR	Off	NR	NR	NR	NR	NR	NR	30.25	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/02/11	NR	Off	NR	NR	NR	NR	NR	NR	30.33	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/05/11	NR	Off	NR	NR	NR	NR	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/06/11	NR	Off	NR	NR	NR	NR	NR	NR	30.08	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/07/11	NR	Off	NR	NR	NR	NR	NR	NR	29.91	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/08/11	NR	Off	NR	NR	NR	NR	NR	NR	29.97	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/09/11	NR	Off	NR	NR	NR	NR	NR	NR	30.17	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/12/11	NR	Off	NR	NR	NR	NR	NR	NR	30.46	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/13/11	NR	Off	NR	NR	NR	NR	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/14/11	NR	Off	NR	NR	NR	NR	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/15/11	NR	Off	NR	NR	NR	NR	NR	NR	29.69	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/16/11	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/19/11	NR	Off	NR	NR	NR	NR	NR	NR	29.87	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/20/11	NR	Off	NR	NR	NR	NR	NR	NR	30.17	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/21/11	NR	Off	NR	NR	NR	NR	NR	NR	29.69	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/27/11	NR	Off	NR	NR	NR	NR	NR	NR	29.38	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/29/11	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
12/30/11	NR	Off	NR	NR	NR	NR	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/03/12	NR	Off	NR	NR	NR	NR	NR	NR	30.04	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/04/12	NR	Off	NR	NR	NR	NR	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/05/12	NR	Off	NR	NR	NR	NR	NR	NR	29.82	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/06/12	NR	Off	NR	NR	NR	NR	NR	NR	29.71	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/09/12	NR	Off	NR	NR	NR	NR	NR	NR	30.11	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/10/12	NR	Off	NR	NR	NR	NR	NR	NR	29.85	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/11/12	NR	Off	NR	NR	NR	NR	NR	NR	29.97	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/12/12	NR	Off	NR	NR	NR	NR	NR	NR	29.54	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/13/12	NR	Off	NR	NR	NR	NR	NR	NR	29.35	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/16/12	NR	Off	NR	NR	NR	NR	NR	NR	30.08	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/17/12	NR	Off	NR	NR	NR	NR	NR	NR	29.60	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/18/12	NR	Off	NR	NR	NR	NR	NR	NR	29.92	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/19/12	NR	Off	NR	NR	NR	NR	NR	NR	29.87	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/23/12	NR	Off	NR	NR	NR	NR	NR	NR	29.85	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/24/12	NR	Off	NR	NR	NR	NR	NR	NR	29.94	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/25/12	NR	Off	NR	NR	NR	NR	NR	NR	30.27	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/26/12	NR	Off	NR	NR	NR	NR	NR	NR	29.99	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/27/12	NR	Off	NR	NR	NR	NR	NR	NR	29.52	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/30/12	NR	Off	NR	NR	NR	NR	NR	NR	30.19	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	
01/31/12	NR	Off	NR	NR	NR	NR	NR	NR	30.00	NR	NR	NR	NR	NR	NR	NR	NR	1088101.4	NR	NR	NR	NR	

Notes:
 NR = Not Recorded.
 in Hg = inches Mercury
 F = degrees Fahrenheit
 psi = Pressure per Square Inch
 in H₂O = inches Water
 cfm = Cubic Feet per Minute
 ppm = Parts Per Million
 lbs = Pounds
 lbs/hr = Pounds per Hour
 OWS = Oil Water Separator
 *Flowmeter may have been replaced for repairs during the duration of the system activation.

Table D-3
 Site 3805B
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0846	On	NR	NR	3742.0	22.3	NR	NR	30.30	NR	NR	NR	8.5	118	7.0	62	1.60	1382548.8	NR	NR	NR	NR	
11/02/11	0756	On	NR	NR	3765.2	23.2	NR	NR	30.23	NR	NR	NR	8.5	114	7.0	60	1.60	1382548.8	NR	NR	NR	NR	
11/03/11	1028	On	NR	NR	3791.7	26.5	NR	NR	30.03	NR	NR	NR	8.0	134	6.5	74	1.60	1382548.8	NR	NR	NR	NR	
11/04/11	0925	On	NR	NR	3814.7	23.0	NR	NR	30.23	NR	NR	NR	8.0	114	6.5	62	1.60	1382548.8	NR	NR	NR	NR	
11/07/11	1003	On	NR	NR	3888.3	73.6	NR	NR	30.22	NR	NR	NR	8.0	132	7.0	72	1.60	1382548.8	NR	NR	NR	NR	
11/08/11	0949	On	NR	NR	3912.1	23.8	NR	NR	30.21	NR	NR	NR	8.0	130	7.0	72	1.60	1382548.8	NR	NR	NR	NR	
11/09/11	1021	On	NR	NR	3937.6	25.5	NR	NR	29.98	NR	NR	NR	7.5	144	6.5	82	1.60	1382548.8	NR	NR	NR	NR	
11/10/11	0752	On	NR	NR	3958.2	20.6	NR	NR	29.84	NR	NR	NR	8.0	126	6.5	72	1.60	1382548.8	NR	NR	NR	NR	
11/11/11	0853	On	NR	NR	3983.1	24.9	NR	NR	29.69	NR	NR	NR	8.5	118	7.0	68	1.60	1382548.8	NR	NR	NR	NR	
11/14/11	0856	On	NR	NR	4055.2	72.1	NR	NR	29.62	NR	NR	NR	7.5	142	7.0	86	1.60	1382548.8	NR	NR	NR	NR	
11/15/11	0910	On	NR	NR	4079.5	24.3	NR	NR	29.72	NR	NR	NR	7.5	128	6.5	72	1.60	1382548.8	NR	NR	NR	NR	
11/16/11	0903	On	NR	NR	4103.3	23.8	NR	NR	29.80	NR	NR	NR	7.5	126	6.5	70	1.60	1382548.8	NR	NR	NR	NR	
11/17/11	1127	On	NR	NR	4129.7	26.4	NR	NR	29.89	NR	NR	NR	7.5	120	7.0	68	1.60	1382548.8	NR	NR	NR	NR	
11/18/11	0711	On	NR	NR	4149.5	19.8	NR	NR	30.20	NR	NR	NR	7.0	108	8.5	58	1.60	1382548.8	NR	NR	NR	NR	
11/21/11	0700	On	NR	NR	4221.3	71.8	NR	NR	30.38	NR	NR	NR	9.0	108	7.0	58	1.60	1382548.8	NR	NR	NR	NR	
11/22/11	0735	On	NR	NR	4245.9	24.6	NR	NR	30.30	NR	NR	NR	9.0	98	7.5	48	1.60	1382548.8	NR	NR	NR	NR	
11/28/11	1025	On	NR	NR	4392.7	146.8	NR	NR	30.05	NR	NR	NR	8.0	124	6.5	70	1.60	1382548.8	NR	NR	NR	NR	
11/29/11	1210	On	NR	NR	4418.4	25.7	NR	NR	29.81	NR	NR	NR	7.5	138	6.5	76	1.60	1382548.8	NR	NR	NR	NR	
11/30/11	925	On	NR	NR	4439.7	21.3	NR	NR	29.59	NR	NR	NR	8.0	124	7.0	72	1.60	1382548.8	NR	NR	NR	NR	
12/01/11	0823	On	NR	NR	4462.7	23.0	NR	NR	30.25	NR	NR	NR	8.5	108	7.5	58	1.60	1382548.8	NR	NR	NR	NR	
12/02/11	1024	On	NR	NR	4488.7	26.0	NR	NR	30.33	NR	NR	NR	7.5	114	6.5	62	1.60	1382548.8	NR	NR	NR	NR	
12/05/11	1039	On	NR	NR	4560.9	72.2	NR	NR	30.19	NR	NR	NR	7.5	124	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
12/06/11	0847	On	NR	NR	4582.9	22.0	NR	NR	30.08	NR	NR	NR	7.5	114	7.0	60	1.60	1382548.8	NR	NR	NR	NR	
12/07/11	0803	On	NR	NR	4606.2	23.3	NR	NR	29.91	NR	NR	NR	8.0	126	6.5	58	1.60	1382548.8	NR	NR	NR	NR	
12/08/11	0836	On	NR	NR	4630.8	24.6	NR	NR	29.97	NR	NR	NR	8.0	106	7.0	56	1.60	1382548.8	NR	NR	NR	NR	
12/09/11	0822	On	NR	NR	4654.5	23.7	NR	NR	30.17	NR	NR	NR	8.0	106	6.5	62	1.60	1382548.8	NR	NR	NR	NR	
12/12/11	0820	Off	NR	NR	4662.3	7.8	NR	NR	30.46	NR	NR	NR	NR	NR	NR	NR	NR	1382548.8	NR	NR	NR	NR	Off for MIP work
12/13/11	NR	Off	NR	NR	4662.3	0.0	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	1382548.8	NR	NR	NR	NR	Off for MIP work
12/14/11	NR	Off	NR	NR	4662.3	0.0	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	1382548.8	NR	NR	NR	NR	Off for MIP work
12/15/11	1114	On	NR	NR	4665.8	3.5	NR	NR	29.69	NR	NR	NR	7.0	120	6.0	66	1.65	1382548.8	NR	NR	NR	NR	
12/16/11	0718	On	NR	NR	4685.8	20.0	NR	NR	29.99	NR	NR	NR	7.5	110	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
12/19/11	1115	On	NR	NR	4761.7	75.9	NR	NR	29.87	NR	NR	NR	7.5	112	6.0	68	1.60	1382548.8	NR	NR	NR	NR	
12/20/11	1251	On	NR	NR	4787.4	25.7	NR	NR	30.17	NR	NR	NR	7.0	100	6.5	82	1.60	1382548.8	NR	NR	NR	NR	
12/21/11	0855	On	NR	NR	4807.4	20.0	NR	NR	29.69	NR	NR	NR	7.0	106	6.0	60	1.60	1382548.8	NR	NR	NR	NR	
12/27/11	0843	On	NR	NR	4951.2	143.8	NR	NR	29.38	NR	NR	NR	7.0	102	6.5	62	1.65	1382548.8	NR	NR	NR	NR	
12/29/11	0807	On	NR	NR	4998.6	47.4	NR	NR	29.99	NR	NR	NR	7.5	82	7.0	58	1.60	1382548.8	NR	NR	NR	NR	
12/30/11	0822	On	NR	NR	5022.9	24.3	NR	NR	29.94	NR	NR	NR	7.5	102	7.0	68	1.60	1382548.8	NR	NR	NR	NR	
01/03/12	0851	On	NR	NR	5119.4	96.5	NR	NR	30.04	NR	NR	NR	7.0	84	6.5	58	1.60	1382548.8	NR	NR	NR	NR	
01/04/12	0811	On	NR	NR	5142.7	23.3	NR	NR	30.00	NR	NR	NR	8.0	74	6.5	48	1.60	1382548.8	NR	NR	NR	NR	
01/05/12	0654	On	NR	NR	5164.7	22.0	NR	NR	29.82	NR	NR	NR	7.0	104	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
01/06/12	0929	On	NR	NR	5189.3	24.6	NR	NR	29.71	NR	NR	NR	7.0	110	6.0	70	1.60	1382548.8	NR	NR	NR	NR	
01/09/12	0749	On	NR	NR	5259.7	70.4	NR	NR	30.11	NR	NR	NR	7.5	104	6.0	68	1.60	1382548.8	NR	NR	NR	NR	
01/10/12	0834	On	NR	NR	5284.4	24.7	NR	NR	29.85	NR	NR	NR	7.5	114	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
01/11/12	1059	On	NR	NR	5310.8	26.4	NR	NR	29.97	NR	NR	NR	7.5	110	7.0	70	1.60	1382548.8	NR	NR	NR	NR	
01/12/12	1037	On	NR	NR	5334.4	23.6	NR	NR	29.54	NR	NR	NR	7.5	110	7.0	72	1.65	1382548.8	NR	NR	NR	NR	
01/13/12	945	On	NR	NR	5352.6	18.2	NR	NR	29.35	NR	NR	NR	7.0	110	6.5	72	1.60	1382548.8	NR	NR	NR	NR	
01/16/12	1230	On	NR	NR	5432.4	79.8	NR	NR	30.08	NR	NR	NR	7.5	92	7.0	58	1.60	1382548.8	NR	NR	NR	NR	
01/17/12	1104	On	NR	NR	5454.9	22.5	NR	NR	29.60	NR	NR	NR	7.5	108	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
01/18/12	0821	On	NR	NR	5476.2	21.3	NR	NR	29.92	NR	NR	NR	7.5	94	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
01/19/12	538	On	NR	NR	5497.4	21.2	NR	NR	29.87	NR	NR	NR	7.5	82	6.5	56	1.60	1382548.8	NR	NR	NR	NR	
01/23/12	1259	On	NR	NR	5600.8	103.4	NR	NR	29.85	NR	NR	NR	7.0	116	6.0	72	1.60	1382548.8	NR	NR	NR	NR	
01/24/12	907	On	NR	NR	5621.0	20.2	NR	NR	29.94	NR	NR	NR	7.5	112	6.5	70	1.60	1382548.8	NR	NR	NR	NR	
01/25/12	0855	On	NR	NR	5644.7	23.7	NR	NR	30.27	NR	NR	NR	8.0	106	6.5	68	1.60	1382548.8	NR	NR	NR	NR	
01/26/12	0832	On	NR	NR	5668.4	23.7	NR	NR	29.99	NR	NR	NR	7.5	108	6.5	70	1.60	1382548.8	NR	NR	NR	NR	
01/27/12	0732	On	NR	NR	5691.4	23.0	NR	NR	29.52	NR	NR	NR	7.0	114	6.5	74	1.60	1382548.8	NR	NR	NR	NR	
01/30/12	1409	On	NR	NR	5770.0	78.6	NR	NR	30.19	NR	NR	NR	7.5	104	7.0	68	1.60	1382548.8	NR	NR	NR	NR	
01/31/12	1216	On	NR	NR	5792.1	22.1	NR	NR	30.00	NR	NR	NR	7.5	120	6.5	70	1.60	1382548.8	NR	NR	NR	NR	

Notes:

- NR = Not Recorded.
- in Hg = inches Mercury
- F = degrees Fahrenheit
- psi = Pressure per Square Inch
- in H₂O = inches Water
- cfm = Cubic Feet per Minute
- ppm = Parts Per Million
- lbs = Pounds
- lbs/hr = Pounds per Hour
- OWS = Oil Water Separator
- *Flowmeter may have been replaced for repairs during the duration of the system activation

Table D-4
 Site 3805C
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Spurge Hour Meter	Spurge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (in H ₂ O)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Spurge Influent Pressure (psi)	Spurge Influent Temperature (F)	Spurge Effluent Pressure (psi)	Spurge Effluent Temperature (F)	Spurge Differential Pressure (2-15) (in H ₂ O)	Spurge Differential Pressure (2-16) (in H ₂ O)	Spurge Differential Pressure (2-23) (in H ₂ O)	Spurge Differential Pressure (2-24) (in H ₂ O)	OWS Cumulative Flow* (gallons)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0856	On	4644.5	25.3	8465.6	25.3	4.0	56.0	30.30	0.0	112.0	2.0	7.5	114.0	6.5	66.0	0.06	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/02/11	0819	On	4668.0	23.5	8489.0	23.4	4.0	56.0	30.23	0.0	108.0	2.0	7.0	112.0	6.5	62.0	0.06	0.02	0.14	0.05	634309.9	0.0	0.1	0.000	0.000	
11/03/11	0753	On	4691.2	23.2	8512.2	23.2	4.0	64.0	30.03	0.0	110.0	2.2	7.0	122.0	6.5	72.0	0.06	0.02	0.14	0.05	634309.9	0.0	0.1	0.000	0.000	
11/04/11	0867	On	4716.2	25.0	8537.3	25.1	4.0	54.0	30.23	0.0	102.0	2.0	7.5	116.0	6.5	60.0	0.06	0.02	0.13	0.05	634309.9	0.0	0.1	0.000	0.000	
11/07/11	0846	On	4789.1	72.9	8610.1	72.8	6.5	80.0	30.22	0.0	126.0	2.2	7.0	134.0	5.0	90.0	0.06	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/08/11	1200	On	4816.2	27.1	8637.3	27.2	7.0	84.0	30.21	0.0	130.0	2.0	6.0	140.0	5.0	92.0	0.08	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/09/11	1059	On	4839.3	23.1	8660.3	23.0	7.0	80.0	30.38	0.0	136.0	2.2	6.5	142.0	5.0	92.0	0.06	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/10/11	1012	On	4862.5	23.2	8683.5	23.2	5.0	66.0	29.84	0.0	118.0	2.0	7.5	122.0	6.0	70.0	0.06	0.02	0.14	0.05	634309.9	0.0	0.0	0.000	0.000	
11/11/11	0837	On	4884.9	22.4	8706.0	22.5	4.0	58.0	29.69	0.0	110.0	2.0	7.0	120.0	6.0	64.0	0.08	0.02	0.14	0.05	634309.9	0.0	0.0	0.000	0.000	
11/14/11	0837	On	4956.9	72.0	8778.0	72.0	6.5	78.0	29.62	0.0	130.0	2.2	6.0	140.0	5.0	84.0	0.08	0.02	0.14	0.05	634309.9	0.0	0.0	0.000	0.000	
11/15/11	0852	On	4981.2	24.3	8802.2	24.2	5.0	66.0	29.72	0.0	120.0	2.4	7.0	126.0	6.0	72.0	0.08	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/16/11	0847	On	5005.0	23.8	8826.1	23.9	5.0	66.0	29.80	0.0	118.0	2.4	7.0	128.0	5.5	78.0	0.08	0.02	0.14	0.05	634309.9	0.0	0.0	0.000	0.000	
11/17/11	1234	On	5032.8	27.8	8853.9	27.8	4.5	56.0	29.89	0.0	110.0	2.2	7.0	118.0	6.0	62.0	0.08	0.02	0.15	0.05	634309.9	0.0	0.0	0.000	0.000	
11/18/11	0658	On	5051.2	18.4	8872.3	18.4	4.0	50.0	30.20	0.0	102.0	2.2	7.5	108.0	6.5	58.0	0.06	0.02	0.14	0.05	634309.9	0.0	0.0	0.000	0.000	
11/21/11	1027	On	5126.7	75.5	8947.8	75.5	5.0	56.0	30.38	0.0	110.0	1.8	7.5	110.0	7.0	60.0	0.08	0.02	0.15	0.00	634382.2	72.3	0.1	0.003	0.000	
11/22/11	1213	On	5152.5	25.8	8973.5	25.7	5.0	54.0	30.30	0.0	114.0	2.0	7.5	112.0	6.5	62.0	0.08	0.02	0.14	0.00	634505.9	123.7	0.1	0.002	0.000	
11/28/11	0959	On	5294.3	141.8	7115.3	141.8	4.5	60.0	30.05	0.0	112.0	2.4	7.5	120.0	6.5	70.0	0.06	0.02	0.14	0.00	635268.2	762.3	0.1	0.065	0.000	
11/29/11	0805	On	5316.4	22.1	7137.4	22.1	5.0	74.0	29.81	0.0	122.0	2.2	6.5	132.0	5.0	86.0	0.08	0.02	0.13	0.00	635268.2	0.0	0.0	0.000	0.000	
11/30/11	1204	On	5344.3	27.9	7165.3	27.9	5.0	66.0	29.59	0.0	114.0	2.4	7.0	124.0	5.5	72.0	0.08	0.02	0.14	0.05	635268.2	0.0	0.0	0.000	0.000	
12/01/11	0947	On	5366.1	21.8	7187.1	21.8	4.0	52.0	30.25	0.0	100.0	2.0	7.5	108.0	7.0	58.0	0.08	0.02	0.13	0.00	635268.2	0.0	0.0	0.000	0.000	
12/02/11	0910	On	5389.4	23.3	7210.5	23.4	4.5	58.0	30.33	0.0	108.0	2.4	7.0	110.0	6.0	68.0	0.06	0.02	0.14	0.00	635700.4	16.2	0.1	0.000	0.000	
12/05/11	1017	On	5462.6	73.2	7283.6	73.1	5.0	66.0	30.19	0.0	122.0	2.0	7.5	124.0	5.5	78.0	0.08	0.02	0.14	0.00	635700.4	414.0	0.0	0.000	0.000	
12/06/11	0824	On	5484.7	22.1	7305.7	22.1	5.0	54.0	30.08	0.0	116.0	2.2	7.0	112.0	6.0	62.0	0.08	0.02	0.14	0.00	635826.5	126.1	0.0	0.000	0.000	
12/07/11	0744	On	5508.0	23.3	7329.0	23.3	3.5	56.0	29.91	0.0	100.0	2.2	7.5	108.0	6.0	62.0	0.08	0.02	0.15	0.05	636117.8	291.3	0.0	0.000	0.000	
12/08/11	0932	On	5533.8	25.8	7354.8	25.8	3.5	48.0	29.97	0.0	96.0	2.6	7.5	108.0	6.5	52.0	0.08	0.02	0.14	0.00	636155.1	37.3	0.0	0.000	0.000	
12/09/11	0808	On	5556.4	22.6	7377.4	22.6	4.0	58.0	30.17	0.0	100.0	2.4	7.5	108.0	7.5	64.0	0.06	0.02	0.15	0.00	636155.1	0.0	0.1	0.000	0.000	
12/12/11	0827	Off	5564.6	8.2	7385.6	8.2	NR	NR	30.46	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	636230.7	75.6	NR	NR	NR	Off for MIP work
12/13/11	NR	Off	5564.6	0.0	7385.6	0.0	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	636230.7	0.0	NR	NR	NR	Off for MIP work
12/14/11	NR	Off	5564.6	0.0	7385.6	0.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	636230.7	0.0	NR	NR	NR	Off for MIP work
12/15/11	0953	On	5566.3	1.7	7387.3	1.7	7.0	72.0	29.69	0.0	122.0	1.8	7.0	132.0	5.5	82.0	0.00	0.20	0.06	0.00	636230.7	0.0	0.1	0.000	0.000	
12/16/11	0726	On	5587.8	21.5	7408.9	21.6	6.0	66.0	29.99	0.0	116.0	2.2	7.5	118.0	5.5	72.0	0.02	0.08	0.10	0.05	636230.7	0.0	0.1	0.000	0.000	
12/19/11	0921	On	5661.8	74.0	7482.8	73.9	7.0	68.0	29.87	0.0	116.0	2.2	6.5	118.0	5.5	80.0	0.08	0.02	0.12	0.05	636403.9	173.2	0.1	0.008	0.000	
12/20/11	1220	On	5688.7	26.9	7509.7	26.9	3.0	68.0	30.17	0.0	82.0	2.8	7.0	108.0	5.5	70.0	0.06	0.02	0.13	0.00	636403.9	0.0	0.1	0.000	0.000	
12/21/11	0840	On	5709.1	20.4	7530.1	20.4	3.0	72.0	29.69	0.0	86.0	2.8	7.0	114.0	5.5	80.0	0.08	0.02	0.12	0.00	636403.9	0.0	0.1	0.000	0.000	
12/27/11	0925	On	5853.8	144.7	7674.9	144.8	3.0	68.0	29.38	0.0	100.0	2.2	7.5	110.0	5.5	78.0	0.06	0.02	0.13	0.00	636403.9	0.0	0.0	0.000	0.000	Vacuum increased to take samples at end of week
12/29/11	0915	On	5901.7	47.9	7722.7	47.8	5.0	52.0	29.99	0.0	82.0	2.2	7.0	92.0	6.0	62.0	0.08	0.02	0.14	0.00	636411.9	8.0	0.0	0.000	0.000	Quarterly sample taken
12/30/11	0807	On	5924.5	22.8	7745.6	22.9	3.0	58.0	29.94	0.0	78.0	3.0	7.0	102.0	5.5	68.0	0.08	0.02	0.13	0.00	636458.0	46.1	0.0	0.000	0.000	
01/03/12	1051	On	6023.2	98.7	7844.3	98.7	3.0	44.0	30.04	0.0	68.0	2.2	7.5	90.0	6.0	48.0	0.06	0.0	0.1	0.05	636458.0	0.0	0.0	0.000	0.000	
01/04/12	0757	On	6044.4	21.2	7865.4	21.1	2.0	42.0	30.00	0.0	68.0	2.4	7.5	82.0	7.0	50.0	0.06	0.0	0.1	0.05	636458.0	0.0	0.1	0.000	0.000	
01/05/12	0638	On	6067.1	22.7	7888.1	22.7	3.0	58.0	29.82	0.0	82.0	2.4	7.0	106.0	6.0	62.0	0.08	0.0	0.1	0.05	636458.0	0.0	0.1	0.000	0.000	
01/06/12	1001	On	6094.4	27.3	7915.5	27.4	4.0	68.0	29.71	0.0	90.0	2.6	7.0	118.0	5.0	80.0	0.08	0.0	0.1	0.05	636458.0	0.0	0.0	0.000	0.000	
01/09/12	0727	On	6163.9	69.5	7984.9	69.4	3.0	62.0	30.11	0.0	72.0	2.4	7.5	108.0	6.0	72.0	0.08	0.0	0.1	0.00	636458.0	0.0	0.0	0.000	0.000	
01/10/12	0818	On	6188.7	24.8	8009.8	24.9	2.0	82.0	29.85	0.0	84.0	2.2	7.0	114.0	5.5	68.0	0.08	0.0	0.1	0.00	636458.0	0.0	0.0	0.000	0.000	
01/11/12	1045	On	6215.2	26.5	8036.2	26.4	2.0	62.0	29.97	0.0	84.0	2.4	7.0	108.0	5.5	72.0	0.08	0.0	0.1	0.00	636458.0	0.0	0.0	0.000	0.000	
01/12/12	1016	On	6238.7	23.5	8059.7	23.5	12.0	62.0	29.54	0.0	187.0	1.4	7.0	112.0	5.5	72.0	0.08	0.0	0.1	0.00	636474.4	16.4	0.0	0.000	0.000	Outside air relief valve frozen. The valve was de-iced and re-installed. vac back to normal
01/13/12	919	On	6261.6	22.9	8097.7	22.9	2.0	58.0	29.35	0.0	84.0	2.8	7.0	100.0	5.5	62.0	0.08	0.0	0.1	0.05	636500.6	26.2	0.1	0.000	0.000	
01/16/12	0944	On	6334.1	72.5	8155.2	72.5	2.0	40.0	30.08	0.0	58.0	2.2	8.0	82.0	6.5	48.0	0.08	0.2	0.1	0.00	636500.6	0.0	0.0	0.000	0.000	
01/17/12	1118	On	6359.6	25.5	8180.7	25.5	2.0	60.0	29.60	0.0	84.0	2.4	7.0	112.0	5.5	70.0	0.08	0.0	0.1	0.00	636500.6	0.0	0.0	0.000	0.000	</

Table D-5
Site 3805D
November 2011 - January 2012 O&M Data
Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Spurge Hour Meter	Spurge Hours Operated	SVE Influent Vacuum (kPa)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Spurge Influent Pressure (psi)	Spurge Influent Temperature (F)	Spurge Effluent Pressure (psi)	Spurge Effluent Temperature (F)	Spurge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	AS Cumulative Flow* (gallons)	AS Differential Pressure (in H ₂ O)	Air Flow (cfm)	SVE Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0840	On	NR	NR	22554.0	22.6	NR	NR	30.30	NR	NR	NR	7.5	100	8.0	70	0.0	NR	NR	NR	NR	NR	NR	NR	
11/02/11	0752	On	NR	NR	22577.2	23.2	NR	NR	30.23	NR	NR	NR	7.0	94	9.5	62	0.0	NR	NR	NR	NR	NR	NR	NR	
11/03/11	1025	On	NR	NR	22603.7	26.5	NR	NR	30.03	NR	NR	NR	7.0	110	8.5	78	0.0	NR	NR	NR	NR	NR	NR	NR	
11/04/11	0919	On	NR	NR	22626.7	23.0	NR	NR	30.23	NR	NR	NR	7.5	98	9.0	74	0.0	NR	NR	NR	NR	NR	NR	NR	
11/07/11	957	On	NR	NR	22700.3	73.6	NR	NR	30.22	NR	NR	NR	7.0	108	9.0	72	0.0	NR	NR	NR	NR	NR	NR	NR	
11/08/11	0942	On	NR	NR	22724.0	23.7	NR	NR	30.21	NR	NR	NR	7.0	116	8.0	86	0.0	NR	NR	NR	NR	NR	NR	NR	
11/09/11	1110	On	NR	NR	22749.5	25.5	NR	NR	29.95	NR	NR	NR	7.0	118	8.0	86	0.0	NR	NR	NR	NR	NR	NR	NR	
11/10/11	0745	On	NR	NR	22770.1	20.6	NR	NR	29.84	NR	NR	NR	7.0	100	8.5	68	0.0	NR	NR	NR	NR	NR	NR	NR	
11/11/11	0848	On	NR	NR	22795.1	25.0	NR	NR	29.69	NR	NR	NR	7.0	98	9.0	68	0.0	NR	NR	NR	NR	NR	NR	NR	
11/14/11	0849	On	NR	NR	22867.2	72.1	NR	NR	29.62	NR	NR	NR	7.0	110	9.0	78	0.0	NR	NR	NR	NR	NR	NR	NR	
11/15/11	0904	On	NR	NR	22891.4	24.2	NR	NR	29.72	NR	NR	NR	7.0	108	8.5	76	0.0	NR	NR	NR	NR	NR	NR	NR	
11/16/11	0856	On	NR	NR	22915.3	23.9	NR	NR	29.80	NR	NR	NR	7.0	102	9.0	68	0.0	NR	NR	NR	NR	NR	NR	NR	
11/17/11	1045	On	NR	NR	22941.1	25.8	NR	NR	29.89	NR	NR	NR	7.0	92	9.0	62	0.0	NR	NR	NR	NR	NR	NR	NR	
11/18/11	0706	On	NR	NR	22961.4	20.3	NR	NR	30.20	NR	NR	NR	7.0	88	9.5	58	0.0	NR	NR	NR	NR	NR	NR	NR	
11/21/11	0653	On	NR	NR	23033.2	71.8	NR	NR	30.38	NR	NR	NR	7.0	88	9.5	64	0.0	NR	NR	NR	NR	NR	NR	NR	
11/22/11	0723	On	NR	NR	23057.7	24.5	NR	NR	30.30	NR	NR	NR	7.5	84	9.5	60	0.0	NR	NR	NR	NR	NR	NR	NR	
11/28/11	1015	On	NR	NR	23204.6	146.9	NR	NR	30.05	NR	NR	NR	7.0	100	9.0	68	0.0	NR	NR	NR	NR	NR	NR	NR	
11/29/11	1157	On	NR	NR	23230.3	25.7	NR	NR	29.81	NR	NR	NR	7.0	116	8.0	82	0.0	NR	NR	NR	NR	NR	NR	NR	
11/30/11	0917	On	NR	NR	23251.6	21.3	NR	NR	29.59	NR	NR	NR	6.5	96	8.5	62	0.0	NR	NR	NR	NR	NR	NR	NR	
12/01/11	0817	On	NR	NR	23274.6	23.0	NR	NR	30.25	NR	NR	NR	7.0	90	9.5	66	0.0	NR	NR	NR	NR	NR	NR	NR	
12/02/11	1013	On	NR	NR	23300.6	26.0	NR	NR	30.33	NR	NR	NR	7.0	94	9.0	62	0.0	NR	NR	NR	NR	NR	NR	NR	
12/05/11	1029	On	NR	NR	23372.8	72.2	NR	NR	30.19	NR	NR	NR	7.0	102	9.0	78	0.0	NR	NR	NR	NR	NR	NR	NR	
12/06/11	0840	On	NR	NR	23395.0	22.2	NR	NR	30.08	NR	NR	NR	7.0	98	9.0	70	0.0	NR	NR	NR	NR	NR	NR	NR	
12/07/11	0757	On	NR	NR	23418.3	23.3	NR	NR	29.91	NR	NR	NR	7.0	96	9.0	70	0.0	NR	NR	NR	NR	NR	NR	NR	
12/08/11	0828	On	NR	NR	23442.8	24.5	NR	NR	29.97	NR	NR	NR	7.5	88	9.5	52	0.0	NR	NR	NR	NR	NR	NR	NR	
12/09/11	0818	On	NR	NR	23466.6	23.8	NR	NR	30.17	NR	NR	NR	7.0	88	9.0	54	0.0	NR	NR	NR	NR	NR	NR	NR	
12/12/11	0818	Off	NR	NR	23474.5	7.9	NR	NR	30.46	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off for MIP work
12/13/11	NR	Off	NR	NR	23474.5	0.0	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off for MIP work
12/14/11	NR	Off	NR	NR	23474.5	0.0	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off for MIP work
12/15/11	1005	On	NR	NR	23477.0	2.5	NR	NR	29.69	NR	NR	NR	7.0	104	6.0	74	0.0	NR	NR	NR	NR	NR	NR	NR	
12/16/11	0713	On	NR	NR	23497.6	20.6	NR	NR	29.99	NR	NR	NR	7.0	100	6.5	72	0.0	NR	NR	NR	NR	NR	NR	NR	
12/19/11	1109	On	NR	NR	23573.5	75.9	NR	NR	29.87	NR	NR	NR	7.0	100	6.0	72	0.0	NR	NR	NR	NR	NR	NR	NR	
12/20/11	1242	On	NR	NR	23599.0	25.5	NR	NR	30.17	NR	NR	NR	7.0	92	7.0	72	0.0	NR	NR	NR	NR	NR	NR	NR	
12/21/11	0852	On	NR	NR	23619.2	20.2	NR	NR	29.69	NR	NR	NR	6.5	98	7.0	70	0.0	NR	NR	NR	NR	NR	NR	NR	
12/27/11	0837	On	NR	NR	23763.0	143.8	NR	NR	29.38	NR	NR	NR	7.5	90	7.0	62	0.0	NR	NR	NR	NR	NR	NR	NR	
12/29/11	0802	On	NR	NR	23810.4	47.4	NR	NR	29.99	NR	NR	NR	7.0	78	7.0	58	0.0	NR	NR	NR	NR	NR	NR	NR	
12/30/11	0817	On	NR	NR	23834.7	24.3	NR	NR	29.94	NR	NR	NR	7.0	88	7.0	64	0.0	NR	NR	NR	NR	NR	NR	NR	
01/03/12	0846	On	NR	NR	23931.2	96.5	NR	NR	30.04	NR	NR	NR	7.0	78	7.0	58	0.0	NR	NR	NR	NR	NR	NR	NR	
01/04/12	0807	On	NR	NR	23954.5	23.3	NR	NR	30.00	NR	NR	NR	6.0	70	7.5	54	0.0	NR	NR	NR	NR	NR	NR	NR	
01/05/12	0650	On	NR	NR	23976.9	22.4	NR	NR	29.82	NR	NR	NR	7.0	94	7.0	70	0.0	NR	NR	NR	NR	NR	NR	NR	
01/06/12	0838	On	NR	NR	24002.7	25.8	NR	NR	29.71	NR	NR	NR	7.0	98	7.0	68	0.0	NR	NR	NR	NR	NR	NR	NR	
01/09/12	0746	On	NR	NR	24073.0	70.3	NR	NR	30.11	NR	NR	NR	6.0	84	7.0	56	0.0	NR	NR	NR	NR	NR	NR	NR	
01/10/12	0830	On	NR	NR	24097.7	24.7	NR	NR	29.85	NR	NR	NR	7.0	98	6.5	72	0.0	NR	NR	NR	NR	NR	NR	NR	
01/11/12	1054	On	NR	NR	24124.2	26.5	NR	NR	29.97	NR	NR	NR	7.0	98	7.0	72	0.0	NR	NR	NR	NR	NR	NR	NR	
01/12/12	1033	On	NR	NR	24147.8	23.6	NR	NR	29.54	NR	NR	NR	7.0	98	7.0	74	0.0	NR	NR	NR	NR	NR	NR	NR	
01/13/12	0940	On	NR	NR	24170.9	23.1	NR	NR	29.35	NR	NR	NR	7.0	94	7.0	68	0.0	NR	NR	NR	NR	NR	NR	NR	
01/16/12	1226	On	NR	NR	24245.7	74.8	NR	NR	30.08	NR	NR	NR	7.0	78	7.5	44	0.0	NR	NR	NR	NR	NR	NR	NR	
01/17/12	1057	On	NR	NR	24268.2	22.5	NR	NR	29.60	NR	NR	NR	7.0	88	7.5	52	0.0	NR	NR	NR	NR	NR	NR	NR	
01/18/12	0817	On	NR	NR	24289.5	21.3	NR	NR	29.92	NR	NR	NR	7.0	78	7.5	50	0.0	NR	NR	NR	NR	NR	NR	NR	
01/19/12	0534	On	NR	NR	24310.8	21.3	NR	NR	29.87	NR	NR	NR	7.5	70	8.5	42	0.0	NR	NR	NR	NR	NR	NR	NR	
01/23/12	1254	On	NR	NR	24414.1	103.3	NR	NR	29.85	NR	NR	NR	7.0	98	7.5	62	0.0	NR	NR	NR	NR	NR	NR	NR	
01/24/12	0904	On	NR	NR	24434.3	20.2	NR	NR	29.94	NR	NR	NR	7.0	102	6.5	60	0.0	NR	NR	NR	NR	NR	NR	NR	
01/25/12	0851	On	NR	NR	24458.1	23.8	NR	NR	30.27	NR	NR	NR	7.0	98	7.0	76	0.0	NR	NR	NR	NR	NR	NR	NR	
01/26/12	0828	On	NR	NR	24481.7	23.6	NR	NR	29.99	NR	NR	NR	7.0	90	7.5	68	0.0	NR	NR	NR	NR	NR	NR	NR	
01/27/12	0728	On	NR	NR	24504.7	23.0	NR	NR	29.52	NR	NR	NR	7.0	92	7.0	58	0.0	NR	NR	NR	NR	NR	NR	NR	
01/30/12	1354	On	NR	NR	24583.2	78.5	NR	NR	30.19	NR	NR	NR	7.0	98	6.5	78	0.0	NR	NR	NR	NR	NR	NR	NR	
01/31/12	1210	On	NR	NR	24605.4	22.2	NR	NR	30.00	NR	NR	NR	7.0	98	7.5	68	0.0	NR	NR	NR	NR	NR	NR	NR	

Notes:
 NR = Not Recorded
 in Hg = inches Mercury
 F = degrees Fahrenheit
 psi = Pressure per Square Inch
 in H₂O = inches Water
 cfm = Cubic Feet per Minute
 ppm = Parts Per Million
 lbs = Pounds
 lbs/hr = Pounds per Hour
 OWS = Oil Water Separator
 *Flowmeter may have been replaced for repairs during the duration of the system activation.

APPENDIX E

Summary of Well Gauging Results and Operation and Maintenance Data

Building P2140 – AAFES Station

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
2140-DPE01	01/08/2003	646.30	25.88	620.42	-	-	620.42
	09/08/2004	646.30	26.00	620.30	-	-	620.30
	09/22/2004	646.30	26.00	620.30	-	-	620.30
	10/08/2004	646.30	26.00	620.30	-	-	620.30
	10/29/2004	646.30	26.00	620.30	-	-	620.30
	11/04/2004	646.30	26.00	620.30	-	-	620.30
	11/08/2004	646.30	26.00	620.30	-	-	620.30
	12/01/2004	646.30	26.00	620.30	-	-	620.30
	12/15/2004	646.30	26.00	620.30	-	-	620.30
	01/05/2005	646.30	26.00	620.30	-	-	620.30
	01/14/2005	646.30	26.00	620.30	-	-	620.30
	02/03/2005	646.30	26.00	620.30	-	-	620.30
	02/15/2005	646.30	26.00	620.30	-	-	620.30
	03/08/2005	646.30	26.00	620.30	-	-	620.30
	03/22/2005	646.30	26.00	620.30	-	-	620.30
	04/11/2005	646.30	26.00	620.30	-	-	620.30
	04/25/2005	646.30	24.94	621.36	-	-	621.36
	05/03/2005	646.30	26.00	620.30	-	-	620.30
	05/25/2005	646.30		NR	-	NR	-
	06/02/2005	646.30		NR	-	NR	-
	06/20/2005	646.30		NR	-	NR	-
	06/29/2005	646.30		NR	-	NR	-
	07/07/2005	646.30		NR	-	NR	-
	07/27/2005	646.30	25.52	620.78	-	-	620.78
	08/05/2005	646.30	25.49	620.81	-	-	620.81
	08/15/2005	646.30		NR	-	NR	-
	09/06/2005	646.30	25.35	620.95	-	-	620.95
	09/23/2005	646.30	25.26	621.04	-	-	621.04
	10/07/2005	646.30		NR	-	NR	-
	10/25/2005	646.30		NR	-	NR	-
	12/13/2005	646.30	23.00	623.30	-	-	623.30
	01/06/2006	646.30		NR	-	NR	-
	02/09/2006	646.30	22.64	623.66	-	-	623.66
	02/22/2006	646.30	22.52	623.78	-	-	623.78
	03/16/2006	646.30		NR	-	NR	-
	04/12/2006	646.30		NR	-	NR	-
	05/17/2006	646.30	23.41	622.89	-	-	622.89
	06/15/2006	646.30		NR	-	NR	-
	07/10/2006	646.30	23.75	622.55	-	-	622.55
	08/18/2006	646.30	24.31	621.99	-	-	621.99
	10/24/2006	646.30		NR	-	NR	-
	01/04/2007	646.30		NR	-	NR	-
02/01/2007	646.30	22.85	623.45	-	-	623.45	
05/07/2007	646.30	22.45	623.85	-	-	623.85	
05/30/2007	646.30		NR	-	NR	-	
07/30/2007	646.30	23.86	622.44	-	-	622.44	
10/07/2007	646.30		NR	-	NR	-	
01/07/2008	646.30		NR	-	NR	-	
02/26/2008	646.30		NR	-	NR	-	
07/01/2008	646.30		NR	-	NR	-	

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	09/18/2008	646.30	NR	-	NR	-	-
	10/23/2008	646.30	17.70	628.60	-	-	628.60
	12/30/2008	646.30	NR	-	NR	-	-
	01/28/2009	646.30	21.17	625.13	-	-	625.13
	02/24/2009	646.30	24.26	622.04	-	-	622.04
	03/27/2009	646.30	14.65	631.65	-	-	631.65
	04/28/2009	646.30	22.49	623.81	-	-	623.81
	05/20/2009	646.30	22.40	623.90	-	-	623.90
	06/25/2009	646.30	22.44	623.86	-	-	623.86
	07/20/2009	646.30	22.97	623.33	-	-	623.33
	08/25/2009	646.30	21.95	624.35	-	-	624.35
	09/16/2009	646.30	21.30	625.00	-	-	625.00
	10/13/2009	646.30	24.73	621.57	-	-	621.57
	11/10/2009	646.30	24.59	621.71	-	-	621.71
	12/14/2009	646.30	25.17	621.13	-	-	621.13
	01/11/2010	646.30	25.49	620.81	-	-	620.81
	02/10/2010	646.30	25.38	620.92	-	-	620.92
	03/10/2010	646.30	25.67	620.63	-	-	620.63
	04/14/2010	646.30	24.97	621.33	-	-	621.33
	05/12/2010	646.30	25.33	620.97	-	-	620.97
	06/17/2010	646.30	20.17	626.13	-	-	626.13
	07/14/2010	646.30	19.86	626.44	-	-	626.44
	08/09/2010	646.30	23.83	622.47	-	-	622.47
	09/16/2010	646.30	24.11	622.19	-	-	622.19
	10/13/2010	646.30	23.55	622.75	-	-	622.75
	11/16/2010	646.30	22.88	623.42	-	-	623.42
	12/16/2010	646.30	NR	-	NR	-	-
	01/13/2011	646.30	NR	-	NR	-	-
	03/14/2011	646.30	NR	-	NR	-	-
	04/12/2011	646.30	NR	-	NR	-	-
	05/19/2011	646.30	22.26	624.04	-	-	624.04
	06/20/2011	646.30	21.91	624.39	-	-	624.39
	07/13/2011	646.30	21.89	624.41	-	-	624.41
	08/11/2011	646.30	22.01	624.29	-	-	624.29
	09/29/2011	646.30	NR	-	-	-	-
	10/19/2011	646.30	22.39	623.91	-	-	623.91
	11/17/2011	646.30	23.71	622.59	-	-	622.59
	12/07/2011	646.30	23.56	622.74	-	-	622.74
	01/09/2012	646.30	23.67	622.63	-	-	622.63
2140-DPE02	01/08/2003	646.78	27.18	619.60	-	-	619.60
	09/08/2004	646.78	29.00	617.78	-	-	617.78
	09/22/2004	646.78	29.00	617.78	-	-	617.78
	10/08/2004	646.78	29.00	617.78	-	-	617.78
	10/29/2004	646.78	29.00	617.78	-	-	617.78
	11/04/2004	646.78	29.00	617.78	-	-	617.78
	11/08/2004	646.78	29.00	617.78	-	-	617.78
	12/01/2004	646.78	29.00	617.78	-	-	617.78
	12/15/2004	646.78	29.00	617.78	-	-	617.78
	01/05/2005	646.78	29.00	617.78	-	-	617.78

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/14/2005	646.78	29.00	617.78	-	-	617.78
	02/03/2005	646.78	29.00	617.78	-	-	617.78
	02/15/2005	646.78	29.00	617.78	-	-	617.78
	03/08/2005	646.78	29.00	617.78	-	-	617.78
	03/22/2005	646.78	29.00	617.78	-	-	617.78
	04/11/2005	646.78	29.00	617.78	-	-	617.78
	04/25/2005	646.78	26.09	620.69	-	-	620.69
	05/03/2005	646.78	29.00	617.78	-	-	617.78
	05/25/2005	646.78	NR	-	NR	-	-
	06/02/2005	646.78	NR	-	NR	-	-
	06/20/2005	646.78	NR	-	NR	-	-
	06/29/2005	646.78	NR	-	NR	-	-
	07/07/2005	646.78	NR	-	NR	-	-
	07/27/2005	646.78	26.64	620.14	-	-	620.14
	08/05/2005	646.78	26.62	620.16	-	-	620.16
	08/15/2005	646.78	NR	-	NR	-	-
	09/06/2005	646.78	26.39	620.39	-	-	620.39
	09/23/2005	646.78	26.30	620.48	-	-	620.48
	10/07/2005	646.78	NR	-	NR	-	-
	10/25/2005	646.78	NR	-	NR	-	-
	12/13/2005	646.78	24.07	622.71	-	-	622.71
	01/06/2006	646.78	NR	-	NR	-	-
	02/09/2006	646.78	NR	-	NR	-	-
	02/22/2006	646.78	23.62	623.16	-	-	623.16
	03/16/2006	646.78	NR	-	NR	-	-
	04/12/2006	646.78	NR	-	NR	-	-
	05/17/2006	646.78	24.56	622.22	-	-	622.22
	06/15/2006	646.78	NR	-	NR	-	-
	07/10/2006	646.78	26.90	619.88	-	-	619.88
	08/18/2006	646.78	25.46	621.32	-	-	621.32
	10/24/2006	646.78	NR	-	NR	-	-
	01/04/2007	646.78	NR	-	NR	-	-
	02/01/2007	646.78	23.92	622.86	-	-	622.86
	05/07/2007	646.78	23.67	623.11	-	-	623.11
	05/30/2007	646.78	NR	-	NR	-	-
	07/30/2007	646.78	25.04	621.74	-	-	621.74
	10/07/2007	646.78	NR	-	NR	-	-
	01/07/2008	646.78	NR	-	NR	-	-
	02/26/2008	646.78	NR	-	NR	-	-
	07/01/2008	646.78	24.45	622.33	-	-	622.33
2140-DPE03	01/08/2003	646.36	28.54	617.82	-	-	617.82
	09/08/2004	646.36	31.00	615.36	-	-	615.36
	09/22/2004	646.36	31.00	615.36	-	-	615.36
	10/08/2004	646.36	31.00	615.36	-	-	615.36
	10/29/2004	646.36	31.00	615.36	-	-	615.36
	11/04/2004	646.36	31.00	615.36	-	-	615.36
	11/08/2004	646.36	31.00	615.36	-	-	615.36
	12/01/2004	646.36	31.00	615.36	-	-	615.36
	12/15/2004	646.36	31.00	615.36	-	-	615.36

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/05/2005	646.36	33.00	613.36	-	-	613.36
	01/14/2005	646.36	33.00	613.36	-	-	613.36
	02/03/2005	646.36	31.00	615.36	-	-	615.36
	02/15/2005	646.36	31.00	615.36	-	-	615.36
	03/08/2005	646.36	33.00	613.36	-	-	613.36
	03/22/2005	646.36	33.00	613.36	-	-	613.36
	04/11/2005	646.36	33.00	613.36	-	-	613.36
	04/25/2005	646.36	27.48	618.88	-	-	618.88
	05/03/2005	646.36	33.00	613.36	-	-	613.36
	05/25/2005	646.36	NR	-	NR	-	-
	06/02/2005	646.36	NR	-	NR	-	-
	06/20/2005	646.36	NR	-	NR	-	-
	06/29/2005	646.36	NR	-	NR	-	-
	07/07/2005	646.36	NR	-	NR	-	-
	07/27/2005	646.36	28.04	618.32	-	-	618.32
	08/05/2005	646.36	27.99	618.37	-	-	618.37
	08/15/2005	646.36	NR	-	NR	-	-
	09/06/2005	646.36	27.92	618.44	-	-	618.44
	09/23/2005	646.36	27.83	618.53	-	-	618.53
	10/07/2005	646.36	NR	-	-	-	-
	10/25/2005	646.36	NR	-	-	-	-
	12/13/2005	646.36	25.58	620.78	-	-	620.78
	01/06/2006	646.36	NR	-	NR	-	-
	02/09/2006	646.36	25.27	621.09	-	-	621.09
	02/22/2006	646.36	25.19	621.17	-	-	621.17
	03/16/2006	646.36	NR	-	NR	-	-
	04/12/2006	646.36	NR	-	NR	-	-
	05/17/2006	646.36	26.16	620.20	-	-	620.20
	06/15/2006	646.36	NR	-	NR	-	-
	07/10/2006	646.36	26.53	619.83	-	-	619.83
	08/18/2006	646.36	27.22	619.14	-	-	619.14
	10/24/2006	646.36	NR	-	NR	-	-
	01/04/2007	646.36	NR	-	NR	-	-
	02/01/2007	646.36	25.54	620.82	-	-	620.82
	05/07/2007	646.36	25.75	620.61	-	-	620.61
	05/30/2007	646.36	NR	-	NR	-	-
	07/30/2007	646.36	26.84	619.52	-	-	619.52
	10/07/2007	646.36	NR	-	NR	-	-
	01/07/2008	646.36	NR	-	NR	-	-
	02/26/2008	646.36	NR	-	NR	-	-
	07/01/2008	646.36	26.15	620.21	-	-	620.21
	09/18/2008	646.36	17.65	628.71	-	-	628.71
	10/23/2008	646.36	17.15	629.21	-	-	629.21
	12/30/2008	646.36	13.43	632.93	-	-	632.93
	01/28/2009	646.36	13.92	632.44	-	-	632.44
	02/24/2009	646.36	17.30	629.06	-	-	629.06
	03/27/2009	646.36	16.10	630.26	-	-	630.26
	04/28/2009	646.36	16.22	630.14	-	-	630.14
	05/20/2009	646.36	15.62	630.74	-	-	630.74
	06/25/2009	646.36	15.24	631.12	-	-	631.12

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/20/2009	646.36	16.23	630.13	-	-	630.13
	08/25/2009	646.36	21.88	624.48	-	-	624.48
	09/16/2009	646.36	17.54	628.82	-	-	628.82
	10/13/2009	646.30	19.83	626.47	-	-	626.47
	11/10/2009	646.30	17.41	628.89	-	-	628.89
	12/14/2009	646.30	18.12	628.18	-	-	628.18
	01/11/2010	646.30	27.22	619.08	-	-	619.08
	02/10/2010	646.30	27.05	619.25	-	-	619.25
	03/10/2010	646.30	27.39	618.91	-	-	618.91
	04/14/2010	646.30	26.75	619.55	-	-	619.55
	05/12/2010	646.36	27.06	619.30	-	-	619.30
	06/17/2010	646.36	22.86	623.50	-	-	623.50
	07/14/2010	646.36	22.32	624.04	-	-	624.04
	08/09/2010	646.36	22.25	624.11	-	-	624.11
	09/16/2010	646.36	21.24	625.12	-	-	625.12
	10/13/2010	646.36	26.28	620.08	-	-	620.08
	11/16/2010	646.36	26.15	620.21	-	-	620.21
	12/16/2010	646.36	NR	-	NR	-	-
	01/13/2011	646.36	NR	-	NR	-	-
	03/14/2011	646.36	NR	-	NR	-	-
	04/12/2011	646.36	NR	-	NR	-	-
	05/19/2011	646.36	24.35	622.01	-	-	622.01
	06/20/2011	646.36	24.89	621.47	-	-	621.47
	07/13/2011	646.36	22.84	623.52	-	-	623.52
	08/11/2011	646.36	22.91	623.45	-	-	623.45
	09/29/2011	646.36	23.29	623.07	-	-	623.07
	10/19/2011	646.36	24.03	622.33	-	-	622.33
	11/17/2011	646.36	24.52	621.84	-	-	621.84
	12/07/2011	646.36	23.31	623.05	-	-	623.05
	01/09/2012	646.36	27.54	618.82	-	-	618.82
2140-DPE04	01/08/2003	646.04	27.83	618.21	-	-	618.21
	09/08/2004	646.04	30.00	616.04	-	-	616.04
	09/22/2004	646.04	30.00	616.04	-	-	616.04
	10/08/2004	646.04	30.00	616.04	-	-	616.04
	10/29/2004	646.04	31.00	615.04	-	-	615.04
	11/04/2004	646.04	31.00	615.04	-	-	615.04
	11/08/2004	646.04	31.00	615.04	-	-	615.04
	12/01/2004	646.04	31.00	615.04	-	-	615.04
	12/15/2004	646.04	31.00	615.04	-	-	615.04
	01/05/2005	646.04	32.00	614.04	-	-	614.04
	01/14/2005	646.04	32.00	614.04	-	-	614.04
	02/03/2005	646.04	31.60	614.44	-	-	614.44
	02/15/2005	646.04	31.60	614.44	-	-	614.44
	03/08/2005	646.04	32.00	614.04	-	-	614.04
	03/22/2005	646.04	32.00	614.04	-	-	614.04
	04/11/2005	646.04	32.00	614.04	-	-	614.04
	04/25/2005	646.04	26.99	619.05	-	-	619.05
	05/03/2005	646.04	32.00	614.04	-	-	614.04
	05/25/2005	646.04	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	646.04	NR	-	NR	-	-
	06/20/2005	646.04	NR	-	NR	-	-
	06/29/2005	646.04	NR	-	NR	-	-
	07/07/2005	646.04	NR	-	NR	-	-
	07/27/2005	646.04	27.52	618.52	-	-	618.52
	08/05/2005	646.04	27.53	618.51	-	-	618.51
	08/15/2005	646.04	NR	-	NR	-	-
	09/06/2005	646.04	27.27	618.77	-	-	618.77
	09/23/2005	646.04	27.19	618.85	-	-	618.85
	10/07/2005	646.04	NR	-	NR	-	-
	10/25/2005	646.04	NR	-	NR	-	-
	12/13/2005	646.04	24.96	621.08	-	-	621.08
	01/06/2006	646.04	NR	-	NR	-	-
	02/09/2006	646.04	24.70	621.34	-	-	621.34
	02/22/2006	646.04	24.60	621.44	-	-	621.44
	03/16/2006	646.04	NR	-	NR	-	-
	04/12/2006	646.04	NR	-	NR	-	-
	05/17/2006	646.04	25.55	620.49	-	-	620.49
	06/15/2006	646.04	NR	-	NR	-	-
	07/10/2006	646.04	25.93	620.11	-	-	620.11
	08/18/2006	646.04	26.55	619.49	-	-	619.49
	10/24/2006	646.04	NR	-	NR	-	-
	01/04/2007	646.04	NR	-	NR	-	-
	02/01/2007	646.04	24.87	621.17	-	-	621.17
	05/07/2007	646.04	25.00	621.04	-	-	621.04
	05/30/2007	646.04	NR	-	NR	-	-
	07/30/2007	646.04	26.14	619.90	-	-	619.90
	10/07/2007	646.04	NR	-	NR	-	-
	01/07/2008	646.04	NR	-	NR	-	-
	02/26/2008	646.04	NR	-	NR	-	-
	07/01/2008	646.04	25.40	620.64	-	-	620.64
	09/18/2008	646.04	20.32	625.72	-	-	625.72
	10/23/2008	646.04	19.60	626.44	-	-	626.44
	12/30/2008	646.04	17.69	628.35	-	-	628.35
	01/28/2009	646.04	14.72	631.32	-	-	631.32
	02/24/2009	646.04	16.45	629.59	-	-	629.59
	03/27/2009	646.04	16.14	629.90	-	-	629.90
	04/28/2009	646.04	16.33	629.71	-	-	629.71
	05/20/2009	646.04	15.02	631.02	-	-	631.02
	06/25/2009	646.04	13.88	632.16	-	-	632.16
	07/20/2009	646.04	14.43	631.61	-	-	631.61
	08/25/2009	646.04	23.05	622.99	-	-	622.99
	09/16/2009	646.04	18.95	627.09	-	-	627.09
	10/13/2009	646.30	18.86	627.44	-	-	627.44
	11/10/2009	646.30	17.98	628.32	-	-	628.32
	12/14/2009	646.30	18.29	628.01	-	-	628.01
	01/11/2010	646.30	26.69	619.61	-	-	619.61
	02/10/2010	646.30	26.48	619.82	-	-	619.82
	03/10/2010	646.30	26.84	619.46	-	-	619.46
	04/14/2010	646.30	26.18	620.12	-	-	620.12

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/12/2010	646.04	26.45	619.59	-	-	619.59
	06/17/2010	646.04	22.31	623.73	-	-	623.73
	07/14/2010	646.04	22.31	623.73	-	-	623.73
	08/09/2010	646.04	22.15	623.89	-	-	623.89
	09/16/2010	646.04	20.78	625.26	-	-	625.26
	10/13/2010	646.04	25.44	620.60	-	-	620.60
	11/16/2010	646.04	25.47	620.57	-	-	620.57
	12/16/2010	646.04	NR	-	NR	-	-
	01/13/2011	646.04	NR	-	NR	-	-
	03/14/2011	646.04	NR	-	NR	-	-
	04/12/2011	646.04	NR	-	NR	-	-
	05/19/2011	646.04	23.29	622.75	-	-	622.75
	06/20/2011	646.04	24.01	622.03	-	-	622.03
	07/13/2011	646.04	20.41	625.63	-	-	625.63
	08/11/2011	646.04	21.68	624.36	-	-	624.36
	09/29/2011	646.04	21.57	624.47	-	-	624.47
	10/19/2011	646.04	21.17	624.87	-	-	624.87
	11/17/2011	646.04	21.40	624.64	-	-	624.64
	12/07/2011	646.04	20.98	625.06	-	-	625.06
	01/09/2012	646.04	22.09	623.95	-	-	623.95
2140-DPE05	01/08/2003	641.04	26.49	614.55	-	-	614.55
	09/08/2004	641.04	28.00	613.04	-	-	613.04
	09/22/2004	641.04	28.00	613.04	-	-	613.04
	10/08/2004	641.04	28.00	613.04	-	-	613.04
	10/29/2004	641.04	28.00	613.04	-	-	613.04
	11/04/2004	641.04	28.00	613.04	-	-	613.04
	11/08/2004	641.04	28.00	613.04	-	-	613.04
	12/01/2004	641.04	28.00	613.04	-	-	613.04
	12/15/2004	641.04	28.00	613.04	-	-	613.04
	01/05/2005	641.04	28.00	613.04	-	-	613.04
	01/14/2005	641.04	28.00	613.04	-	-	613.04
	02/03/2005	641.04	27.00	614.04	-	-	614.04
	02/15/2005	641.04	27.00	614.04	-	-	614.04
	03/08/2005	641.04	28.00	613.04	-	-	613.04
	03/22/2005	641.04	28.00	613.04	-	-	613.04
	04/11/2005	641.04	28.00	613.04	-	-	613.04
	04/25/2005	641.04	25.75	615.29	-	-	615.29
	05/03/2005	641.04	28.00	613.04	-	-	613.04
	05/25/2005	641.04	NR	-	NR	-	-
	06/02/2005	641.04	NR	-	NR	-	-
	06/20/2005	641.04	NR	-	NR	-	-
	06/29/2005	641.04	NR	-	NR	-	-
	07/07/2005	641.04	NR	-	NR	-	-
	07/27/2005	641.04	26.43	614.61	-	-	614.61
	08/05/2005	641.04	26.38	614.66	-	-	614.66
	08/15/2005	641.04	NR	-	NR	-	-
	09/06/2005	641.04	26.32	614.72	-	-	614.72
	09/23/2005	641.04	26.23	614.81	-	-	614.81
	10/07/2005	641.04	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/25/2005	641.04	NR	-	NR	-	-
	12/13/2005	641.04	23.98	617.06	-	-	617.06
	01/06/2006	641.04	NR	-	NR	-	-
	02/09/2006	641.04	23.73	617.31	-	-	617.31
	02/22/2006	641.04	23.63	617.41	-	-	617.41
	03/16/2006	641.04	NR	-	NR	-	-
	04/12/2006	641.04	NR	-	NR	-	-
	05/17/2006	641.04	24.76	616.28	-	-	616.28
	06/15/2006	641.04	NR	-	NR	-	-
	07/10/2006	641.04	25.27	615.77	-	-	615.77
	08/18/2006	641.04	25.92	615.12	-	-	615.12
	10/24/2006	641.04	NR	-	NR	-	-
	01/04/2007	641.04	NR	-	NR	-	-
	02/01/2007	641.04	24.12	616.92	-	-	616.92
	05/07/2007	641.04	24.65	616.39	-	-	616.39
	05/30/2007	641.04	NR	-	NR	-	-
	07/30/2007	641.04	25.54	615.50	-	-	615.50
	10/07/2007	641.04	NR	-	NR	-	-
	01/07/2008	641.04	NR	-	NR	-	-
	02/26/2008	641.04	NR	-	NR	-	-
	07/01/2008	641.04	24.55	616.49	-	-	616.49
2140-DPE06	01/08/2003	640.49	26.18	614.31	-	-	614.31
	09/08/2004	640.49	28.00	612.49	-	-	612.49
	09/22/2004	640.49	28.00	612.49	-	-	612.49
	10/08/2004	640.49	28.00	612.49	-	-	612.49
	10/29/2004	640.49	28.00	612.49	-	-	612.49
	11/04/2004	640.49	28.00	612.49	-	-	612.49
	11/08/2004	640.49	28.00	612.49	-	-	612.49
	12/01/2004	640.49	28.00	612.49	-	-	612.49
	12/15/2004	640.49	28.00	612.49	-	-	612.49
	01/05/2005	640.49	28.00	612.49	-	-	612.49
	01/14/2005	640.49	28.00	612.49	-	-	612.49
	02/03/2005	640.49	28.00	612.49	-	-	612.49
	02/15/2005	640.49	28.00	612.49	-	-	612.49
	03/08/2005	640.49	28.00	612.49	-	-	612.49
	03/22/2005	640.49	28.00	612.49	-	-	612.49
	04/11/2005	640.49	28.00	612.49	-	-	612.49
	04/25/2005	640.49	25.52	614.97	-	-	614.97
	05/03/2005	640.49	28.00	612.49	-	-	612.49
	05/25/2005	640.49	NR	-	NR	-	-
	06/02/2005	640.49	NR	-	NR	-	-
	06/20/2005	640.49	NR	-	NR	-	-
	06/29/2005	640.49	NR	-	NR	-	-
	07/07/2005	640.49	NR	-	NR	-	-
	07/27/2005	640.49	26.07	614.42	-	-	614.42
	08/05/2005	640.49	26.02	614.47	-	-	614.47
	08/15/2005	640.49	NR	-	NR	-	-
	09/06/2005	640.49	25.92	614.57	-	-	614.57
	09/23/2005	640.49	25.91	614.58	-	-	614.58

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/07/2005	640.49	NR	-	NR	-	-
	10/25/2005	640.49	NR	-	NR	-	-
	12/13/2005	640.49	23.73	616.76	-	-	616.76
	01/06/2006	640.49	NR	-	NR	-	-
	02/09/2006	640.49	23.49	617.00	-	-	617.00
	02/22/2006	640.49	23.44	617.05	-	-	617.05
	03/16/2006	640.49	NR	-	NR	-	-
	04/12/2006	640.49	NR	-	NR	-	-
	05/17/2006	640.49	24.44	616.05	-	-	616.05
	06/15/2006	640.49	NR	-	NR	-	-
	07/10/2006	640.49	25.00	615.49	-	-	615.49
	08/18/2006	640.49	25.52	614.97	-	-	614.97
	10/24/2006	640.49	NR	-	NR	-	-
	01/04/2007	640.49	NR	-	NR	-	-
	02/01/2007	640.49	23.83	616.66	-	-	616.66
	05/07/2007	640.49	23.11	617.38	-	-	617.38
	05/30/2007	640.49	NR	-	NR	-	-
	07/30/2007	640.49	25.11	615.38	-	-	615.38
	10/07/2007	640.49	NR	-	NR	-	-
	01/07/2008	640.49	NR	-	NR	-	-
	02/26/2008	640.49	NR	-	NR	-	-
	07/01/2008	640.49	24.15	616.34	-	-	616.34
	09/18/2008	640.49	19.60	620.89	-	-	620.89
	10/23/2008	640.49	17.90	622.59	-	-	622.59
	12/30/2008	640.49	16.74	623.75	-	-	623.75
	01/28/2009	640.49	15.20	625.29	-	-	625.29
	02/24/2009	640.49	16.81	623.68	-	-	623.68
	03/27/2009	640.49	16.08	624.41	-	-	624.41
	04/28/2009	640.49	17.26	623.23	-	-	623.23
	05/20/2009	640.49	16.08	624.41	-	-	624.41
	06/25/2009	640.49	15.18	625.31	-	-	625.31
	07/20/2009	640.49	19.03	621.46	-	-	621.46
	08/25/2009	640.49	22.70	617.79	-	-	617.79
	09/16/2009	640.49	17.95	622.54	-	-	622.54
	10/13/2009	646.30	19.03	627.27	-	-	627.27
	11/10/2009	646.30	17.86	628.44	-	-	628.44
	12/14/2009	646.30	19.48	626.82	-	-	626.82
	01/11/2010	646.30	25.25	621.05	-	-	621.05
	02/10/2010	646.30	24.92	621.38	-	-	621.38
	03/10/2010	646.30	25.29	621.01	-	-	621.01
	04/14/2010	646.30	24.67	621.63	-	-	621.63
	05/12/2010	640.49	24.96	615.53	-	-	615.53
	06/17/2010	640.49	23.14	617.35	-	-	617.35
	07/14/2010	640.49	23.14	617.35	-	-	617.35
	08/09/2010	640.49	22.98	617.51	-	-	617.51
	09/16/2010	640.49	22.22	618.27	-	-	618.27
	10/13/2010	640.49	24.16	616.33	-	-	616.33
	11/16/2010	640.49	24.06	616.43	-	-	616.43
	12/16/2010	640.49	NR	-	NR	-	-
	01/13/2011	640.49	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/14/2011	640.49	NR	-	NR	-	-
	04/12/2011	640.49	NR	-	NR	-	-
	05/19/2011	640.49	21.91	618.58	-	-	618.58
	06/20/2011	640.49	22.78	617.71	-	-	617.71
	07/13/2011	640.49	21.04	619.45	-	-	619.45
	08/11/2011	640.49	25.01	615.48	-	-	615.48
	09/29/2011	640.49	19.93	620.56	-	-	620.56
	10/19/2011	640.49	19.98	620.51	-	-	620.51
	11/17/2011	640.49	19.78	620.71	-	-	620.71
	12/07/2011	640.49	19.71	620.78	-	-	620.78
	01/09/2012	640.49	20.20	620.29	-	-	620.29
2140-DPE07	01/08/2003	638.00	26.97	611.03	-	-	611.03
	09/08/2004	638.00	26.40	611.60	-	-	611.60
	09/22/2004	638.00	26.31	611.69	-	-	611.69
	10/08/2004	638.00	27.69	610.31	-	-	610.31
	10/29/2004	638.00	26.78	611.22	-	-	611.22
	11/04/2004	638.00	26.85	611.15	-	-	611.15
	11/08/2004	638.00	NR	-	NR	-	-
	12/01/2004	638.00	26.93	611.07	-	-	611.07
	12/15/2004	638.00	26.41	611.59	-	-	611.59
	01/05/2005	638.00	25.73	612.27	-	-	612.27
	01/14/2005	638.00	25.86	612.14	-	-	612.14
	02/03/2005	638.00	25.65	612.35	-	-	612.35
	02/15/2005	638.00	25.92	612.08	-	-	612.08
	03/08/2005	638.00	25.70	612.30	-	-	612.30
	03/22/2005	638.00	26.09	611.91	-	-	611.91
	04/11/2005	638.00	25.64	612.36	-	-	612.36
	04/25/2005	638.00	25.50	612.50	-	-	612.50
	05/03/2005	638.00	25.60	612.40	-	-	612.40
	05/25/2005	638.00	NR	-	NR	-	-
	06/02/2005	638.00	NR	-	NR	-	-
	06/20/2005	638.00	NR	-	NR	-	-
	06/29/2005	638.00	NR	-	NR	-	-
	07/07/2005	638.00	NR	-	NR	-	-
	07/27/2005	638.00	26.59	611.41	-	-	611.41
	08/05/2005	638.00	26.33	611.67	-	-	611.67
	08/15/2005	638.00	NR	-	NR	-	-
	09/06/2005	638.00	26.35	611.65	-	-	611.65
	09/23/2005	638.00	26.83	611.17	-	-	611.17
	10/07/2005	638.00	NR	-	NR	-	-
	10/25/2005	638.00	NR	-	NR	-	-
	12/13/2005	638.00	25.84	612.16	-	-	612.16
	01/06/2006	638.00	NR	-	NR	-	-
	02/09/2006	638.00	23.80	614.20	-	-	614.20
	02/22/2006	638.00	23.84	614.16	-	-	614.16
	03/16/2006	638.00	NR	-	NR	-	-
	04/12/2006	638.00	NR	-	NR	-	-
	05/17/2006	638.00	24.73	613.27	-	-	613.27
	06/15/2006	638.00	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/10/2006	638.00	25.30	612.70	-	-	612.70
	08/18/2006	638.00	25.94	612.06	-	-	612.06
	10/24/2006	638.00	NR	-	NR	-	-
	01/04/2007	638.00	NR	-	NR	-	-
	02/01/2007	638.00	24.12	613.88	-	-	613.88
	05/07/2007	638.00	25.51	612.49	-	-	612.49
	05/30/2007	638.00	NR	-	NR	-	-
	07/30/2007	638.00	25.82	612.18	-	-	612.18
	10/07/2007	638.00	25.61	612.39	-	-	612.39
	01/07/2008	638.00	25.03	612.97	-	-	612.97
	02/26/2008	638.00	23.85	614.15	-	-	614.15
	07/01/2008	638.00	26.15	611.85	-	-	611.85
2140-DPE08	01/08/2003	638.54	27.66	610.88	-	-	610.88
	09/08/2004	638.54	27.76	610.78	-	-	610.78
	09/22/2004	638.54	27.65	610.89	-	-	610.89
	10/08/2004	638.54	27.99	610.55	-	-	610.55
	10/29/2004	638.54	28.08	610.46	-	-	610.46
	11/04/2004	638.54	28.13	610.41	-	-	610.41
	11/08/2004	638.54	NR	-	NR	-	-
	12/01/2004	638.54	28.15	610.39	-	-	610.39
	12/15/2004	638.54	27.60	610.94	-	-	610.94
	01/05/2005	638.54	27.16	611.38	-	-	611.38
	01/14/2005	638.54	27.80	610.74	-	-	610.74
	02/03/2005	638.54	27.01	611.53	-	-	611.53
	02/15/2005	638.54	27.29	611.25	-	-	611.25
	03/08/2005	638.54	27.06	611.48	-	-	611.48
	03/22/2005	638.54	27.42	611.12	-	-	611.12
	04/11/2005	638.54	26.85	611.69	-	-	611.69
	04/25/2005	638.54	26.80	611.74	-	-	611.74
	05/03/2005	638.54	26.95	611.59	-	-	611.59
	05/25/2005	638.54	NR	-	NR	-	-
	06/02/2005	638.54	NR	-	NR	-	-
	06/20/2005	638.54	NR	-	NR	-	-
	06/29/2005	638.54	NR	-	NR	-	-
	07/07/2005	638.54	NR	-	NR	-	-
	07/27/2005	638.54	28.05	610.49	-	-	610.49
	08/05/2005	638.54	27.50	611.04	-	-	611.04
	08/15/2005	638.54	NR	-	NR	-	-
	09/06/2005	638.54	27.42	611.12	-	-	611.12
	09/23/2005	638.54	27.33	611.21	-	-	611.21
	10/07/2005	638.54	NR	-	NR	-	-
	10/25/2005	638.54	NR	-	NR	-	-
	12/13/2005	638.54	25.74	612.80	-	-	612.80
	01/06/2006	638.54	NR	-	NR	-	-
	02/09/2006	638.54	25.31	613.23	-	-	613.23
	02/22/2006	638.54	25.32	613.22	-	-	613.22
	03/16/2006	638.54	NR	-	NR	-	-
	04/12/2006	638.54	NR	-	NR	-	-
	05/17/2006	638.54	26.08	612.46	-	-	612.46

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/15/2006	638.54	NR	-	NR	-	-
	07/10/2006	638.54	26.54	612.00	-	-	612.00
	08/18/2006	638.54	27.02	611.52	-	-	611.52
	10/24/2006	638.54	NR	-	NR	-	-
	01/04/2007	638.54	NR	-	NR	-	-
	02/01/2007	638.54	25.54	613.00	-	-	613.00
	05/07/2007	638.54	26.03	612.51	-	-	612.51
	05/30/2007	638.54	NR	-	NR	-	-
	07/30/2007	638.54	26.68	611.86	-	-	611.86
	10/07/2007	638.54	26.97	611.57	-	-	611.57
	01/07/2008	638.54	26.54	612.00	-	-	612.00
	02/26/2008	638.54	25.39	613.15	-	-	613.15
	07/01/2008	638.54	25.90	612.64	-	-	612.64
	09/18/2008	638.54	26.09	612.45	-	-	612.45
	10/23/2008	638.54	26.22	612.32	-	-	612.32
	12/30/2008	638.54	24.16	614.38	-	-	614.38
	01/28/2009	638.54	15.29	623.25	-	-	623.25
	02/24/2009	638.54	16.11	622.43	-	-	622.43
	03/27/2009	638.54	15.55	622.99	-	-	622.99
	04/28/2009	638.54	16.21	622.33	-	-	622.33
	05/20/2009	638.54	15.11	623.43	-	-	623.43
	06/25/2009	638.54	14.17	624.37	-	-	624.37
	07/20/2009	638.54	14.47	624.07	-	-	624.07
	08/25/2009	638.54	18.85	619.69	-	-	619.69
	09/16/2009	638.54	17.91	620.63	-	-	620.63
	10/13/2009	646.30	19.09	627.21	-	-	627.21
	11/10/2009	646.30	16.62	629.68	-	-	629.68
	12/14/2009	646.30	17.03	629.27	-	-	629.27
	01/11/2010	646.30	26.58	619.72	-	-	619.72
	02/10/2010	646.30	26.23	620.07	-	-	620.07
	03/10/2010	646.30	26.62	619.68	-	-	619.68
	04/14/2010	646.30	26.16	620.14	-	-	620.14
	05/12/2010	638.54	26.43	612.11	-	-	612.11
	06/17/2010	638.54	21.64	616.90	-	-	616.90
	07/14/2010	638.54	21.52	617.02	-	-	617.02
	08/09/2010	638.54	22.34	616.20	-	-	616.20
	09/16/2010	638.54	21.84	616.70	-	-	616.70
	10/13/2010	638.54	25.94	612.60	-	-	612.60
	11/16/2010	638.54	25.89	612.65	-	-	612.65
	12/16/2010	638.54	NR	-	NR	-	-
	01/13/2011	638.54	NR	-	NR	-	-
	03/14/2011	638.54	NR	-	NR	-	-
	04/12/2011	638.54	NR	-	NR	-	-
	05/19/2011	638.54	23.64	614.90	-	-	614.90
	06/20/2011	638.54	25.08	613.46	-	-	613.46
	07/13/2011	638.54	24.48	614.06	-	-	614.06
	08/11/2011	638.54	23.68	614.86	-	-	614.86
	09/29/2011	638.54	25.22	613.32	-	-	613.32
	10/19/2011	638.54	25.59	612.95	-	-	612.95
	11/17/2011	638.54	25.35	613.19	-	-	613.19

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Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/07/2011	638.54	25.53	613.01	-	-	613.01
	01/09/2012	638.54	25.77	612.77	-	-	612.77
2140-DPE09	01/08/2003	633.87	24.94	608.93	-	-	608.93
	09/08/2004	633.87	29.00	604.87	-	-	604.87
	09/22/2004	633.87	29.00	604.87	-	-	604.87
	10/08/2004	633.87	29.00	604.87	-	-	604.87
	10/29/2004	633.87	29.00	604.87	-	-	604.87
	11/04/2004	633.87	29.00	604.87	-	-	604.87
	11/08/2004	633.87	29.00	604.87	-	-	604.87
	12/01/2004	633.87	29.00	604.87	-	-	604.87
	12/15/2004	633.87	29.00	604.87	-	-	604.87
	01/05/2005	633.87	29.00	604.87	-	-	604.87
	01/14/2005	633.87	29.00	604.87	-	-	604.87
	02/03/2005	633.87	28.00	605.87	-	-	605.87
	02/15/2005	633.87	28.00	605.87	-	-	605.87
	03/08/2005	633.87	29.00	604.87	-	-	604.87
	03/22/2005	633.87	29.00	604.87	-	-	604.87
	04/11/2005	633.87	29.00	604.87	-	-	604.87
	04/25/2005	633.87	23.87	610.00	-	-	610.00
	05/03/2005	633.87	29.00	604.87	-	-	604.87
	05/25/2005	633.87	NR	-	NR	-	-
	06/02/2005	633.87	NR	-	NR	-	-
	06/20/2005	633.87	NR	-	NR	-	-
	06/29/2005	633.87	NR	-	NR	-	-
	07/07/2005	633.87	NR	-	NR	-	-
	07/27/2005	633.87	25.26	608.61	-	-	608.61
	08/05/2005	633.87	25.31	608.56	-	-	608.56
	08/15/2005	633.87	NR	-	NR	-	-
	09/06/2005	633.87	25.28	608.59	-	-	608.59
	09/23/2005	633.87	25.09	608.78	-	-	608.78
	10/07/2005	633.87	NR	-	NR	-	-
	10/25/2005	633.87	NR	-	NR	-	-
	12/13/2005	633.87	23.01	610.86	-	-	610.86
	01/06/2006	633.87	NR	-	NR	-	-
	02/09/2006	633.87	22.83	611.04	-	-	611.04
	02/22/2006	633.87	22.88	610.99	-	-	610.99
	03/16/2006	633.87	NR	-	NR	-	-
	04/12/2006	633.87	NR	-	NR	-	-
	05/17/2006	633.87	23.95	609.92	-	-	609.92
	06/15/2006	633.87	NR	-	NR	-	-
	07/10/2006	633.87	24.58	609.29	-	-	609.29
	08/18/2006	633.87	25.38	608.49	-	-	608.49
	10/24/2006	633.87	NR	-	NR	-	-
	01/04/2007	633.87	NR	-	NR	-	-
	02/01/2007	633.87	24.63	609.24	-	-	609.24
	05/07/2007	633.87	23.14	610.73	-	-	610.73
	05/30/2007	633.87	NR	-	NR	-	-
	07/30/2007	633.87	25.07	608.80	-	-	608.80
	10/07/2007	633.87	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/07/2008	633.87	NR	-	NR	-	-
	02/26/2008	633.87	NR	-	NR	-	-
	07/01/2008	633.87	24.10	609.77	-	-	609.77
	09/18/2008	633.87	24.18	609.69	-	-	609.69
	10/23/2008	633.87	23.85	610.02	-	-	610.02
	12/30/2008	633.87	23.68	610.19	-	-	610.19
	01/28/2009	633.87	22.54	611.33	-	-	611.33
	02/24/2009	633.87	22.73	611.14	-	-	611.14
	03/27/2009	633.87	19.37	614.50	-	-	614.50
	04/28/2009	633.87	18.42	615.45	-	-	615.45
	05/20/2009	633.87	16.92	616.95	-	-	616.95
	06/25/2009	633.87	15.78	618.09	-	-	618.09
	07/20/2009	633.87	18.22	615.65	-	-	615.65
	08/25/2009	633.87	24.36	609.51	-	-	609.51
	09/16/2009	633.87	22.38	611.49	-	-	611.49
	10/13/2009	646.30	23.28	623.02	-	-	623.02
	11/10/2009	646.30	22.09	624.21	-	-	624.21
	12/14/2009	646.30	22.31	623.99	-	-	623.99
	01/11/2010	646.30	24.83	621.47	-	-	621.47
	02/10/2010	646.30	24.29	622.01	-	-	622.01
	03/10/2010	646.30	24.71	621.59	-	-	621.59
	04/14/2010	646.30	24.14	622.16	-	-	622.16
	05/12/2010	633.87	24.51	609.36	-	-	609.36
	06/17/2010	633.87	24.33	609.54	-	-	609.54
	07/14/2010	633.87	24.49	609.38	-	-	609.38
	08/09/2010	633.87	24.11	609.76	-	-	609.76
	09/16/2010	633.87	24.49	609.38	-	-	609.38
	10/13/2010	633.87	23.96	609.91	-	-	609.91
	11/16/2010	633.87	24.18	609.69	-	-	609.69
	12/16/2010	633.87	NR	-	NR	-	-
	01/13/2011	633.87	NR	-	NR	-	-
	03/14/2011	633.87	NR	-	NR	-	-
	04/12/2011	633.87	NR	-	NR	-	-
	05/19/2011	633.87	19.94	613.93	-	-	613.93
	06/20/2011	633.87	23.23	610.64	-	-	610.64
	07/13/2011	633.87	22.68	611.19	-	-	611.19
	08/11/2011	633.87	22.98	610.89	-	-	610.89
	09/29/2011	633.87	24.31	609.56	-	-	609.56
	10/19/2011	633.87	24.16	609.71	-	-	609.71
	11/17/2011	633.87	24.03	609.84	-	-	609.84
	12/07/2011	633.87	23.97	609.90	-	-	609.90
	01/09/2012	633.87	23.71	610.16	-	-	610.16
2140-DPE10	01/08/2003	633.50	24.62	608.88	-	-	608.88
	09/08/2004	633.50	27.00	606.50	-	-	606.50
	09/22/2004	633.50	27.00	606.50	-	-	606.50
	10/08/2004	633.50	27.00	606.50	-	-	606.50
	10/29/2004	633.50	27.00	606.50	-	-	606.50
	11/04/2004	633.50	27.00	606.50	-	-	606.50
	11/08/2004	633.50	27.00	606.50	-	-	606.50

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	633.50	27.00	606.50	-	-	606.50
	12/15/2004	633.50	27.00	606.50	-	-	606.50
	01/05/2005	633.50	27.00	606.50	-	-	606.50
	01/14/2005	633.50	27.00	606.50	-	-	606.50
	02/03/2005	633.50	27.00	606.50	-	-	606.50
	02/15/2005	633.50	27.00	606.50	-	-	606.50
	03/08/2005	633.50	27.00	606.50	-	-	606.50
	03/22/2005	633.50	27.00	606.50	-	-	606.50
	04/11/2005	633.50	27.00	606.50	-	-	606.50
	04/25/2005	633.50	24.70	608.80	-	-	608.80
	05/03/2005	633.50	27.00	606.50	-	-	606.50
	05/25/2005	633.50	NR	-	NR	-	-
	06/02/2005	633.50	NR	-	NR	-	-
	06/20/2005	633.50	NR	-	NR	-	-
	06/29/2005	633.50	NR	-	NR	-	-
	07/07/2005	633.50	NR	-	NR	-	-
	07/27/2005	633.50	25.23	608.27	-	-	608.27
	08/05/2005	633.50	24.64	608.86	-	-	608.86
	08/15/2005	633.50	NR	-	NR	-	-
	09/06/2005	633.50	24.63	608.87	-	-	608.87
	09/23/2005	633.50	24.78	608.72	-	-	608.72
	10/07/2005	633.50	NR	-	NR	-	-
	10/25/2005	633.50	NR	-	NR	-	-
	12/13/2005	633.50	22.65	610.85	-	-	610.85
	01/06/2006	633.50	NR	-	NR	-	-
	02/09/2006	633.50	22.44	611.06	-	-	611.06
	02/22/2006	633.50	22.49	611.01	-	-	611.01
	03/16/2006	633.50	NR	-	NR	-	-
	04/12/2006	633.50	NR	-	NR	-	-
	05/17/2006	633.50	23.55	609.95	-	-	609.95
	06/15/2006	633.50	NR	-	NR	-	-
	07/10/2006	633.50	23.97	609.53	-	-	609.53
	08/18/2006	633.50	24.73	608.77	-	-	608.77
	10/24/2006	633.50	NR	-	NR	-	-
	01/04/2007	633.50	NR	-	NR	-	-
	02/01/2007	633.50	23.16	610.34	-	-	610.34
	05/07/2007	633.50	22.85	610.65	-	-	610.65
	05/30/2007	633.50	NR	-	NR	-	-
	07/30/2007	633.50	24.42	609.08	-	-	609.08
	10/07/2007	633.50	NR	-	NR	-	-
	01/07/2008	633.50	NR	-	NR	-	-
	02/26/2008	633.50	NR	-	NR	-	-
	07/01/2008	633.50	23.75	609.75	-	-	609.75
	09/18/2008	633.50	24.65	608.85	-	-	608.85
	10/23/2008	633.50	24.62	608.88	-	-	608.88
	12/30/2008	633.50	24.61	608.89	-	-	608.89
	01/28/2009	633.50	24.95	608.55	-	-	608.55
	02/24/2009	633.50	25.45	608.05	-	-	608.05
	03/27/2009	633.50	16.33	617.17	-	-	617.17
	04/28/2009	633.50	17.42	616.08	-	-	616.08

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/20/2009	633.50	17.31	616.19	-	-	616.19
	06/25/2009	633.50	16.73	616.77	-	-	616.77
	07/20/2009	633.50	18.27	615.23	-	-	615.23
	08/25/2009	633.50	22.65	610.85	-	-	610.85
	09/16/2009	633.50	12.21	621.29	-	-	621.29
	10/13/2009	646.30	22.32	623.98	-	-	623.98
	11/10/2009	646.30	21.08	625.22	-	-	625.22
	12/14/2009	646.30	21.42	624.88	-	-	624.88
	01/11/2010	646.30	24.21	622.09	-	-	622.09
	02/10/2010	646.30	23.76	622.54	-	-	622.54
	03/10/2010	646.30	24.19	622.11	-	-	622.11
	04/14/2010	646.30	23.69	622.61	-	-	622.61
	05/12/2010	633.50	24.03	609.47	-	-	609.47
	06/17/2010	633.50	23.25	610.25	-	-	610.25
	07/14/2010	633.50	23.48	610.02	-	-	610.02
	08/09/2010	633.50	22.79	610.71	-	-	610.71
	09/16/2010	633.50	23.58	609.92	-	-	609.92
	10/13/2010	633.50	23.49	610.01	-	-	610.01
	11/16/2010	633.50	23.64	609.86	-	-	609.86
	12/16/2010	633.50	NR	-	NR	-	-
	01/13/2011	633.50	NR	-	NR	-	-
	03/14/2011	633.50	NR	-	NR	-	-
	04/12/2011	633.50	NR	-	NR	-	-
	05/19/2011	633.50	18.16	615.34	-	-	615.34
	06/20/2011	633.50	22.84	610.66	-	-	610.66
	07/13/2011	633.50	21.97	611.53	-	-	611.53
	08/11/2011	633.50	22.31	611.19	-	-	611.19
	09/29/2011	633.50	23.21	610.29	-	-	610.29
	10/19/2011	633.50	23.03	610.47	-	-	610.47
	11/17/2011	633.50	22.79	610.71	-	-	610.71
	01/09/2012	633.50	22.55	610.95	-	-	610.95
2140-EX01	01/08/2003	646.34	NR	-	NR	-	-
	09/08/2004	646.33	27.12	619.21	-	-	619.21
	09/22/2004	646.33	27.01	619.32	-	-	619.32
	10/08/2004	646.33	27.46	618.87	-	-	618.87
	10/29/2004	646.33	27.60	618.73	-	-	618.73
	11/04/2004	646.33	27.70	618.63	-	-	618.63
	11/08/2004	646.33	27.61	618.72	-	-	618.72
	12/01/2004	646.33	27.82	618.51	-	-	618.51
	12/15/2004	646.33	27.26	619.07	-	-	619.07
	01/05/2005	646.33	26.77	619.56	-	-	619.56
	01/14/2005	646.33	NR	-	NR	-	-
	02/03/2005	646.33	NR	-	NR	-	-
	02/15/2005	646.33	NR	-	NR	-	-
	03/08/2005	646.33	NR	-	NR	-	-
	03/22/2005	646.33	27.19	619.14	-	-	619.14
	04/11/2005	646.33	26.70	619.63	-	-	619.63
	04/25/2005	646.33	25.94	620.39	-	-	620.39
	05/03/2005	646.33	25.61	620.72	-	-	620.72

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/25/2005	646.33	26.98	619.35	-	-	619.35
	06/02/2005	646.33	NR	-	NR	-	-
	06/20/2005	646.33	27.15	619.18	-	-	619.18
	06/29/2005	646.33	27.25	619.08	-	-	619.08
	07/07/2005	646.33	27.38	618.95	-	-	618.95
	07/27/2005	646.33	26.50	619.83	-	-	619.83
	08/05/2005	646.33	26.45	619.88	-	-	619.88
	08/15/2005	646.33	27.60	618.73	-	-	618.73
	09/06/2005	646.33	26.30	620.03	-	-	620.03
	09/23/2005	646.33	26.23	620.10	-	-	620.10
	10/07/2005	646.33	26.90	619.43	-	-	619.43
	10/25/2005	646.33	26.54	619.79	-	-	619.79
	12/13/2005	646.33	NR	-	NR	-	-
	01/06/2006	646.33	NR	-	NR	-	-
	02/09/2006	646.33	NR	-	NR	-	-
	02/22/2006	646.33	NR	-	NR	-	-
	03/16/2006	646.33	23.75	622.58	-	-	622.58
	04/12/2006	646.33	23.80	622.53	-	-	622.53
	05/17/2006	646.33	24.35	621.98	-	-	621.98
	06/15/2006	646.33	24.42	621.91	-	-	621.91
	07/10/2006	646.33	24.71	621.62	-	-	621.62
	08/18/2006	646.33	25.29	621.04	-	-	621.04
	10/24/2006	646.33	25.43	620.90	-	-	620.90
	01/04/2007	646.33	23.62	622.71	-	-	622.71
	02/01/2007	646.33	23.63	622.70	-	-	622.70
	05/07/2007	646.33	23.38	622.95	-	-	622.95
	05/30/2007	646.33	22.13	624.20	-	-	624.20
	07/30/2007	646.33	24.83	621.50	-	-	621.50
	10/07/2007	646.33	25.77	620.56	-	-	620.56
	01/07/2008	646.33	25.65	620.68	-	-	620.68
	02/26/2008	646.33	NR	-	NR	-	-
2140-EX02	01/08/2003	642.31	27.19	615.12	-	-	615.12
	09/08/2004	642.05	27.62	614.43	-	-	614.43
	09/22/2004	642.05	27.67	614.38	-	-	614.38
	10/08/2004	642.05	28.03	614.02	-	-	614.02
	10/29/2004	642.05	28.01	614.04	-	-	614.04
	11/04/2004	642.05	28.17	613.88	-	-	613.88
	11/08/2004	642.05	27.93	614.12	-	-	614.12
	12/01/2004	642.05	28.30	613.75	-	-	613.75
	12/15/2004	642.05	27.61	614.44	-	-	614.44
	01/05/2005	642.05	27.77	614.28	-	-	614.28
	01/14/2005	642.05	27.17	614.88	-	-	614.88
	02/03/2005	642.05	26.78	615.27	-	-	615.27
	02/15/2005	642.05	27.35	614.70	-	-	614.70
	03/08/2005	642.05	27.13	614.92	-	-	614.92
	03/22/2005	642.05	27.01	615.04	-	-	615.04
	04/11/2005	642.05	26.95	615.10	-	-	615.10
	04/25/2005	642.05	26.44	615.61	-	-	615.61
	05/03/2005	642.05	26.82	615.23	-	-	615.23

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/25/2005	642.05	27.39	614.66	-	-	614.66
	06/02/2005	642.05	27.35	614.70	-	-	614.70
	06/20/2005	642.05	27.59	614.46	-	-	614.46
	06/29/2005	642.05	27.58	614.47	-	-	614.47
	07/07/2005	642.05	26.69	615.36	-	-	615.36
	07/27/2005	642.05	27.18	614.87	-	-	614.87
	08/05/2005	642.05	27.12	614.93	-	-	614.93
	08/15/2005	642.05	28.02	614.03	-	-	614.03
	09/06/2005	642.05	27.08	614.97	-	-	614.97
	09/23/2005	642.05	27.04	615.01	-	-	615.01
	10/07/2005	642.05	27.42	614.63	-	-	614.63
	10/25/2005	642.05	26.13	615.92	-	-	615.92
	12/13/2005	642.05	25.45	616.60	-	-	616.60
	01/06/2006	642.05	25.67	616.38	-	-	616.38
	02/09/2006	642.05	24.31	617.74	-	-	617.74
	02/22/2006	642.05	24.25	617.80	-	-	617.80
	03/16/2006	642.05	24.74	617.31	-	-	617.31
	04/12/2006	642.05	25.05	617.00	-	-	617.00
	05/17/2006	642.05	24.46	617.59	-	-	617.59
	06/15/2006	642.05	24.42	617.63	-	-	617.63
	07/10/2006	642.05	25.99	616.06	-	-	616.06
	08/18/2006	642.05	26.64	615.41	-	-	615.41
	10/24/2006	642.05	26.03	616.02	-	-	616.02
	01/04/2007	642.05	24.58	617.47	-	-	617.47
	02/01/2007	642.05	24.86	617.19	-	-	617.19
	05/07/2007	642.05	25.36	616.69	-	-	616.69
	05/30/2007	642.05	23.06	618.99	-	-	618.99
	07/30/2007	642.05	26.42	615.63	-	-	615.63
	10/07/2007	642.05	27.66	614.39	-	-	614.39
	01/07/2008	642.05	26.48	615.57	-	-	615.57
	02/26/2008	642.05	25.13	616.92	-	-	616.92
2140-EX04	01/08/2003	641.50	27.18	614.32	-	-	614.32
	09/08/2004	641.61	27.28	614.33	-	-	614.33
	09/22/2004	641.61	27.27	614.34	-	-	614.34
	10/08/2004	641.61	27.46	614.15	-	-	614.15
	10/29/2004	641.61	27.78	613.83	-	-	613.83
	11/04/2004	641.61	27.71	613.90	-	-	613.90
	11/08/2004	641.61	27.58	614.03	-	-	614.03
	12/01/2004	641.61	27.71	613.90	-	-	613.90
	12/15/2004	641.61	27.26	614.35	-	-	614.35
	01/05/2005	641.61	26.04	615.57	-	-	615.57
	01/14/2005	641.61	26.49	615.12	-	-	615.12
	02/03/2005	641.61	25.92	615.69	-	-	615.69
	02/15/2005	641.61	26.34	615.27	-	-	615.27
	03/08/2005	641.61	25.94	615.67	-	-	615.67
	03/22/2005	641.61	26.70	614.91	-	-	614.91
	04/11/2005	641.61	26.09	615.52	-	-	615.52
	04/25/2005	641.61	25.51	616.10	-	-	616.10
	05/03/2005	641.61	25.89	615.72	-	-	615.72

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	05/25/2005	641.61	26.39	615.22	-	-	615.22
	06/02/2005	641.61	26.43	615.18	-	-	615.18
	06/20/2005	641.61	26.53	615.08	-	-	615.08
	06/29/2005	641.61	26.85	614.76	-	-	614.76
	07/07/2005	641.61	27.12	614.49	-	-	614.49
	07/27/2005	641.61	26.34	615.27	-	-	615.27
	08/05/2005	641.61	26.19	615.42	-	-	615.42
	08/15/2005	641.61	27.04	614.57	-	-	614.57
	09/06/2005	641.61	26.00	615.61	-	-	615.61
	09/23/2005	641.61	25.90	615.71	-	-	615.71
	10/07/2005	641.61	26.09	615.52	-	-	615.52
	10/25/2005	641.61	25.05	616.56	-	-	616.56
	12/13/2005	641.61	23.08	618.53	-	-	618.53
	01/06/2006	641.61	24.22	617.39	-	-	617.39
	02/09/2006	641.61	22.92	618.69	-	-	618.69
	02/22/2006	641.61	22.91	618.70	-	-	618.70
	03/16/2006	641.61	23.48	618.13	-	-	618.13
	04/12/2006	641.61	23.93	617.68	-	-	617.68
	05/17/2006	641.61	24.71	616.90	-	-	616.90
	06/15/2006	641.61	24.45	617.16	-	-	617.16
	07/10/2006	641.61	25.27	616.34	-	-	616.34
	08/18/2006	641.61	25.86	615.75	-	-	615.75
	10/24/2006	641.61	26.85	614.76	-	-	614.76
	01/04/2007	641.61	23.41	618.20	-	-	618.20
	02/01/2007	641.61	23.81	617.80	-	-	617.80
	05/07/2007	641.61	24.62	616.99	-	-	616.99
	05/30/2007	641.61	21.08	620.53	-	-	620.53
	07/30/2007	641.61	25.50	616.11	-	-	616.11
	10/07/2007	641.61	25.68	615.93	-	-	615.93
	01/07/2008	641.61	25.34	616.27	-	-	616.27
	02/26/2008	641.61	23.76	617.85	-	-	617.85
2140-MW01	01/08/2003	650.67	NR	-	NR	-	-
	09/08/2004	650.67	24.99	625.68	-	-	625.68
	09/15/2004	650.67	24.51	626.16	-	-	626.16
	09/22/2004	650.67	24.72	625.95	-	-	625.95
	10/08/2004	650.67	25.27	625.40	-	-	625.40
	10/29/2004	650.67	25.42	625.25	-	-	625.25
	11/04/2004	650.67	25.41	625.26	-	-	625.26
	11/08/2004	650.67	25.43	625.24	-	-	625.24
	12/01/2004	650.67	25.58	625.09	-	-	625.09
	12/15/2004	650.67	25.10	625.57	-	-	625.57
	01/05/2005	650.67	24.68	625.99	-	-	625.99
	01/14/2005	650.67	24.68	625.99	-	-	625.99
	02/03/2005	650.67	24.50	626.17	-	-	626.17
	02/15/2005	650.67	24.62	626.05	-	-	626.05
	03/08/2005	650.67	25.01	625.66	-	-	625.66
	03/22/2005	650.67	25.22	625.45	-	-	625.45
	04/11/2005	650.67	24.44	626.23	-	-	626.23
	04/18/2005	650.67	24.55	626.12	-	-	626.12

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	04/25/2005	650.67	24.45	626.22	-	-	626.22
	05/03/2005	650.67	24.38	626.29	-	-	626.29
	05/25/2005	650.67	24.92	625.75	-	-	625.75
	06/02/2005	650.67	25.19	625.48	-	-	625.48
	06/20/2005	650.67	24.99	625.68	-	-	625.68
	06/29/2005	650.67	25.49	625.18	-	-	625.18
	07/07/2005	650.67	25.68	624.99	-	-	624.99
	07/27/2005	650.67	25.23	625.44	-	-	625.44
	08/05/2005	650.67	25.29	625.38	-	-	625.38
	08/15/2005	650.67	25.70	624.97	-	-	624.97
	09/06/2005	650.67	24.88	625.79	-	-	625.79
	09/23/2005	650.67	24.69	625.98	-	-	625.98
	10/07/2005	650.67	24.42	626.25	-	-	626.25
	10/25/2005	650.67	23.68	626.99	-	-	626.99
	12/13/2005	650.67	22.70	627.97	-	-	627.97
	01/06/2006	650.67	23.23	627.44	-	-	627.44
	02/09/2006	650.67	22.37	628.30	-	-	628.30
	02/22/2006	650.67	22.32	628.35	-	-	628.35
	03/16/2006	650.67	22.10	628.57	-	-	628.57
	04/12/2006	650.67	22.56	628.11	-	-	628.11
	04/27/2006	650.67	22.70	627.97	-	-	627.97
	05/17/2006	650.67	23.14	627.53	-	-	627.53
	06/15/2006	650.67	23.35	627.32	-	-	627.32
	07/10/2006	650.67	23.52	627.15	-	-	627.15
	08/18/2006	650.67	24.13	626.54	-	-	626.54
	10/03/2006	650.67	24.15	626.52	-	-	626.52
	10/24/2006	650.67	24.29	626.38	-	-	626.38
	01/04/2007	650.67	22.88	627.79	-	-	627.79
	02/01/2007	650.67	22.80	627.87	-	-	627.87
	05/07/2007	650.67	22.17	628.50	-	-	628.50
	05/30/2007	650.67	22.69	627.98	-	-	627.98
	07/30/2007	650.67	23.71	626.96	-	-	626.96
	10/07/2007	650.67	25.16	625.51	-	-	625.51
	01/07/2008	650.67	24.99	625.68	-	-	625.68
	02/26/2008	650.67	23.55	627.12	-	-	627.12
	05/23/2007	650.67	22.61	628.06	-	-	628.06
2140-MW02	01/08/2003	647.09	26.13	620.96	-	-	620.96
	09/08/2004	647.15	25.92	621.23	-	-	621.23
	09/22/2004	647.15	NR	-	NR	-	-
	10/08/2004	647.15	26.20	620.95	-	-	620.95
	10/29/2004	647.15	26.32	620.83	-	-	620.83
	11/04/2004	647.15	26.46	620.69	-	-	620.69
	11/08/2004	647.15	26.36	620.79	-	-	620.79
	12/01/2004	647.15	26.68	620.47	-	-	620.47
	12/15/2004	647.15	26.11	621.04	-	-	621.04
	01/05/2005	647.15	NR	-	NR	-	-
	01/14/2005	647.15	25.61	621.54	-	-	621.54
	02/03/2005	647.15	NR	-	NR	-	-
	02/15/2005	647.15	NR	-	NR	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/08/2005	647.15	NR	-	NR	-	-
	03/22/2005	647.15	26.02	621.13	-	-	621.13
	04/11/2005	647.15	25.49	621.66	-	-	621.66
	04/25/2005	647.15	25.14	622.01	-	-	622.01
	05/03/2005	647.15	25.35	621.80	-	-	621.80
	05/25/2005	647.15	25.76	621.39	-	-	621.39
	06/02/2005	647.15	26.02	621.13	-	-	621.13
	06/20/2005	647.15	26.11	621.04	-	-	621.04
	06/29/2005	647.15	26.23	620.92	-	-	620.92
	07/07/2005	647.15	26.33	620.82	-	-	620.82
	07/27/2005	647.15	25.74	621.41	-	-	621.41
	08/05/2005	647.15	25.73	621.42	-	-	621.42
	08/15/2005	647.15	26.48	620.67	-	-	620.67
	09/06/2005	647.15	25.59	621.56	-	-	621.56
	09/23/2005	647.15	25.45	621.70	-	-	621.70
	10/07/2005	647.15	25.71	621.44	-	-	621.44
	10/25/2005	647.15	25.03	622.12	-	-	622.12
	12/13/2005	647.15	23.22	623.93	-	-	623.93
	01/06/2006	647.15	23.86	623.29	-	-	623.29
	02/09/2006	647.15	NR	-	NR	-	-
	02/22/2006	647.15	NR	-	NR	-	-
	03/16/2006	647.15	22.63	624.52	-	-	624.52
	04/12/2006	647.15	22.99	624.16	-	-	624.16
	05/17/2006	647.15	23.46	623.69	-	-	623.69
	06/15/2006	647.15	23.61	623.54	-	-	623.54
	07/10/2006	647.15	23.91	623.24	-	-	623.24
	08/18/2006	647.15	24.51	622.64	-	-	622.64
	10/24/2006	647.15	24.73	622.42	-	-	622.42
	01/04/2007	647.15	23.06	624.09	-	-	624.09
	02/01/2007	647.15	22.75	624.40	-	-	624.40
	05/07/2007	647.15	22.54	624.61	-	-	624.61
	05/30/2007	647.15	22.29	624.86	-	-	624.86
	07/30/2007	647.15	23.99	623.16	-	-	623.16
	10/07/2007	647.15	25.21	621.94	-	-	621.94
	01/07/2008	647.15	25.18	621.97	-	-	621.97
	02/26/2008	647.15	NR	-	NR	-	-
	07/01/2008	647.15	26.10	621.05	-	-	621.05
2140-MW03	01/08/2003	648.44	29.26	619.18	-	-	619.18
	09/08/2004	648.09	29.87	618.22	-	-	618.22
	09/22/2004	648.09	29.83	618.26	-	-	618.26
	10/08/2004	648.09	30.26	617.83	-	-	617.83
	10/29/2004	648.09	30.37	617.72	-	-	617.72
	11/04/2004	648.09	30.46	617.63	-	-	617.63
	11/08/2004	648.09	30.21	617.88	-	-	617.88
	12/01/2004	648.09	30.56	617.53	-	-	617.53
	12/15/2004	648.09	29.99	618.10	-	-	618.10
	01/05/2005	648.09	29.55	618.54	-	-	618.54
	01/14/2005	648.09	29.61	618.48	-	-	618.48
	02/03/2005	648.09	29.22	618.87	-	-	618.87

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/15/2005	648.09	29.70	618.39	-	-	618.39
	03/08/2005	648.09	29.40	618.69	-	-	618.69
	03/22/2005	648.09	29.96	618.13	-	-	618.13
	04/11/2005	648.09	29.48	618.61	-	-	618.61
	04/25/2005	648.09	28.77	619.32	-	-	619.32
	05/03/2005	648.09	29.30	618.79	-	-	618.79
	05/25/2005	648.09	29.74	618.35	-	-	618.35
	06/02/2005	648.09	29.86	618.23	-	-	618.23
	06/20/2005	648.09	29.87	618.22	-	-	618.22
	06/29/2005	648.09	29.98	618.11	-	-	618.11
	07/07/2005	648.09	30.08	618.01	-	-	618.01
	07/27/2005	648.09	29.33	618.76	-	-	618.76
	08/05/2005	648.09	29.29	618.80	-	-	618.80
	08/15/2005	648.09	30.31	617.78	-	-	617.78
	09/06/2005	648.09	29.15	618.94	-	-	618.94
	09/23/2005	648.09	29.07	619.02	-	-	619.02
	10/07/2005	648.09	29.63	618.46	-	-	618.46
	10/25/2005	648.09	28.83	619.26	-	-	619.26
	12/13/2005	648.09	26.74	621.35	-	-	621.35
	01/06/2006	648.09	27.65	620.44	-	-	620.44
	02/09/2006	648.09	26.38	621.71	-	-	621.71
	02/22/2006	648.09	26.26	621.83	-	-	621.83
	03/16/2006	648.09	26.69	621.40	-	-	621.40
	04/12/2006	648.09	26.64	621.45	-	-	621.45
	05/17/2006	648.09	27.22	620.87	-	-	620.87
	06/15/2006	648.09	27.19	620.90	-	-	620.90
	07/10/2006	648.09	27.60	620.49	-	-	620.49
	08/18/2006	648.09	28.23	619.86	-	-	619.86
	10/24/2006	648.09	28.43	619.66	-	-	619.66
	01/04/2007	648.09	26.43	621.66	-	-	621.66
	02/01/2007	648.09	26.50	621.59	-	-	621.59
	05/07/2007	648.09	26.50	621.59	-	-	621.59
	05/30/2007	648.09	24.62	623.47	-	-	623.47
	07/30/2007	648.09	27.82	620.27	-	-	620.27
	10/07/2007	648.09	28.58	619.51	-	-	619.51
	01/07/2008	648.09	28.50	619.59	-	-	619.59
	02/26/2008	648.09	27.09	621.00	-	-	621.00
	07/01/2008	648.09	27.45	620.64	-	-	620.64
2140-MW04	01/08/2003	645.87	27.90	617.97	-	-	617.97
	09/08/2004	645.94	28.43	617.51	-	-	617.51
	09/22/2004	645.94	28.35	617.59	-	-	617.59
	10/08/2004	645.94	28.78	617.16	-	-	617.16
	10/29/2004	645.94	28.95	616.99	-	-	616.99
	11/04/2004	645.94	29.03	616.91	-	-	616.91
	11/08/2004	645.94	28.82	617.12	-	-	617.12
	12/01/2004	645.94	29.10	616.84	-	-	616.84
	12/15/2004	645.94	28.50	617.44	-	-	617.44
	01/05/2005	645.94	28.05	617.89	-	-	617.89
	01/14/2005	645.94	28.04	617.90	-	-	617.90

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/03/2005	645.94	27.77	618.17	-	-	618.17
	02/15/2005	645.94	28.23	617.71	-	-	617.71
	03/08/2005	645.94	27.99	617.95	-	-	617.95
	03/22/2005	645.94	28.47	617.47	-	-	617.47
	04/11/2005	645.94	27.96	617.98	-	-	617.98
	04/25/2005	645.94	27.58	618.36	-	-	618.36
	05/03/2005	645.94	27.80	618.14	-	-	618.14
	05/25/2005	645.94	28.24	617.70	-	-	617.70
	06/02/2005	645.94	28.51	617.43	-	-	617.43
	06/20/2005	645.94	28.40	617.54	-	-	617.54
	06/29/2005	645.94	28.56	617.38	-	-	617.38
	07/07/2005	645.94	28.71	617.23	-	-	617.23
	07/27/2005	645.94	28.14	617.80	-	-	617.80
	08/05/2005	645.94	28.16	617.78	-	-	617.78
	08/15/2005	645.94	28.88	617.06	-	-	617.06
	09/06/2005	645.94	27.80	618.14	-	-	618.14
	09/23/2005	645.94	27.69	618.25	-	-	618.25
	10/07/2005	645.94	28.02	617.92	-	-	617.92
	10/25/2005	645.94	27.24	618.70	-	-	618.70
	12/13/2005	645.94	25.52	620.42	-	-	620.42
	01/06/2006	645.94	26.56	619.38	-	-	619.38
	02/09/2006	645.94	25.33	620.61	-	-	620.61
	02/22/2006	645.94	25.33	620.61	-	-	620.61
	03/16/2006	645.94	25.69	620.25	-	-	620.25
	04/12/2006	645.94	25.65	620.29	-	-	620.29
	05/17/2006	645.94	26.28	619.66	-	-	619.66
	06/15/2006	645.94	26.02	619.92	-	-	619.92
	07/10/2006	645.94	26.64	619.30	-	-	619.30
	08/18/2006	645.94	27.23	618.71	-	-	618.71
	10/24/2006	645.94	27.13	618.81	-	-	618.81
	01/04/2007	645.94	25.23	620.71	-	-	620.71
	02/01/2007	645.94	25.63	620.31	-	-	620.31
	05/07/2007	645.94	25.48	620.46	-	-	620.46
	05/30/2007	645.94	24.04	621.90	-	-	621.90
	07/30/2007	645.94	26.79	619.15	-	-	619.15
	10/07/2007	645.94	27.51	618.43	-	-	618.43
	01/07/2008	645.94	27.24	618.70	-	-	618.70
	02/26/2008	645.94	25.81	620.13	-	-	620.13
	07/01/2008	645.94	26.35	619.59	-	-	619.59
2140-MW05	01/08/2003	642.60	NR	-	NR	-	-
	09/08/2004	642.60	29.45	613.15	-	-	613.15
	09/22/2004	642.60	29.48	613.12	-	-	613.12
	10/08/2004	642.60	29.74	612.86	-	-	612.86
	10/29/2004	642.60	29.92	612.68	-	-	612.68
	11/04/2004	642.60	29.87	612.73	-	-	612.73
	11/08/2004	642.60	30.41	612.19	-	-	612.19
	12/01/2004	642.60	30.00	612.60	-	-	612.60
	12/15/2004	642.60	29.56	613.04	-	-	613.04
	01/05/2005	642.60	28.99	613.61	-	-	613.61

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/14/2005	642.60	29.11	613.49	-	-	613.49
	02/03/2005	642.60	28.79	613.81	-	-	613.81
	02/15/2005	642.60	29.24	613.36	-	-	613.36
	03/08/2005	642.60	29.02	613.58	-	-	613.58
	03/22/2005	642.60	29.26	613.34	-	-	613.34
	04/11/2005	642.60	28.90	613.70	-	-	613.70
	04/25/2005	642.60	28.27	614.33	-	-	614.33
	05/03/2005	642.60	28.76	613.84	-	-	613.84
	05/25/2005	642.60	29.11	613.49	-	-	613.49
	06/02/2005	642.60	28.88	613.72	-	-	613.72
	06/20/2005	642.60	29.21	613.39	-	-	613.39
	06/29/2005	642.60	29.23	613.37	-	-	613.37
	07/07/2005	642.60	29.33	613.27	-	-	613.27
	07/27/2005	642.60	28.96	613.64	-	-	613.64
	08/05/2005	642.60	28.93	613.67	-	-	613.67
	08/15/2005	642.60	29.48	613.12	-	-	613.12
	09/06/2005	642.60	28.87	613.73	-	-	613.73
	09/23/2005	642.60	27.79	614.81	-	-	614.81
	10/07/2005	642.60	28.98	613.62	-	-	613.62
	10/25/2005	642.60	28.23	614.37	-	-	614.37
	12/13/2005	642.60	26.62	615.98	-	-	615.98
	01/06/2006	642.60	27.39	615.21	-	-	615.21
	02/09/2006	642.60	26.35	616.25	-	-	616.25
	02/22/2006	642.60	26.31	616.29	-	-	616.29
	03/16/2006	642.60	26.45	616.15	-	-	616.15
	04/12/2006	642.60	26.62	615.98	-	-	615.98
	05/17/2006	642.60	27.36	615.24	-	-	615.24
	06/15/2006	642.60	27.44	615.16	-	-	615.16
	07/10/2006	642.60	27.92	614.68	-	-	614.68
	08/18/2006	642.60	28.58	614.02	-	-	614.02
	10/24/2006	642.60	28.73	613.87	-	-	613.87
	01/04/2007	642.60	26.16	616.44	-	-	616.44
	02/01/2007	642.60	26.72	615.88	-	-	615.88
	05/07/2007	642.60	27.26	615.34	-	-	615.34
	05/30/2007	642.60	26.53	616.07	-	-	616.07
	07/30/2007	642.60	28.29	614.31	-	-	614.31
	10/07/2007	642.60	29.01	613.59	-	-	613.59
	01/07/2008	642.60	28.16	614.44	-	-	614.44
	02/26/2008	642.60	26.78	615.82	-	-	615.82
	07/01/2008	642.60	24.00	618.60	-	-	618.60
2140-MW06	01/08/2003	648.98	30.69	618.29	-	-	618.29
	09/08/2004	649.09	30.67	618.42	-	-	618.42
	09/22/2004	649.09	30.52	618.57	-	-	618.57
	10/08/2004	649.09	30.80	618.29	-	-	618.29
	10/29/2004	649.09	31.25	617.84	-	-	617.84
	11/04/2004	649.09	31.36	617.73	-	-	617.73
	11/08/2004	649.09	30.93	618.16	-	-	618.16
	12/01/2004	649.09	31.35	617.74	-	-	617.74
	12/15/2004	649.09	30.79	618.30	-	-	618.30

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	01/05/2005	649.09	30.29	618.80	-	-	618.80
	01/14/2005	649.09	30.58	618.51	-	-	618.51
	02/03/2005	649.09	30.05	619.04	-	-	619.04
	02/15/2005	649.09	30.61	618.48	-	-	618.48
	03/08/2005	649.09	30.28	618.81	-	-	618.81
	03/22/2005	649.09	30.76	618.33	-	-	618.33
	04/11/2005	649.09	30.45	618.64	-	-	618.64
	04/25/2005	649.09	29.68	619.41	-	-	619.41
	05/03/2005	649.09	30.18	618.91	-	-	618.91
	05/25/2005	649.09	30.32	618.77	-	-	618.77
	06/02/2005	649.09	30.79	618.30	-	-	618.30
	06/20/2005	649.09	30.67	618.42	-	-	618.42
	06/29/2005	649.09	30.78	618.31	-	-	618.31
	07/07/2005	649.09	30.97	618.12	-	-	618.12
	07/27/2005	649.09	30.24	618.85	-	-	618.85
	08/05/2005	649.09	30.21	618.88	-	-	618.88
	08/15/2005	649.09	31.08	618.01	-	-	618.01
	09/06/2005	649.09	29.93	619.16	-	-	619.16
	09/23/2005	649.09	29.84	619.25	-	-	619.25
	10/07/2005	649.09	30.26	618.83	-	-	618.83
	10/25/2005	649.09	29.67	619.42	-	-	619.42
	12/13/2005	649.09	27.66	621.43	-	-	621.43
	01/06/2006	649.09	28.63	620.46	-	-	620.46
	02/09/2006	649.09	27.32	621.77	-	-	621.77
	02/22/2006	649.09	27.25	621.84	-	-	621.84
	03/16/2006	649.09	27.81	621.28	-	-	621.28
	04/12/2006	649.09	27.81	621.28	-	-	621.28
	05/17/2006	649.09	28.23	620.86	-	-	620.86
	06/15/2006	649.09	27.98	621.11	-	-	621.11
	07/10/2006	649.09	28.59	620.50	-	-	620.50
	08/18/2006	649.09	29.25	619.84	-	-	619.84
	10/24/2006	649.09	29.28	619.81	-	-	619.81
	01/04/2007	649.09	27.33	621.76	-	-	621.76
	02/01/2007	649.09	27.53	621.56	-	-	621.56
	05/07/2007	649.09	27.53	621.56	-	-	621.56
	05/30/2007	649.09	25.81	623.28	-	-	623.28
	07/30/2007	649.09	28.78	620.31	-	-	620.31
	10/07/2007	649.09	29.61	619.48	-	-	619.48
	01/07/2008	649.09	29.44	619.65	-	-	619.65
	02/26/2008	649.09	28.03	621.06	-	-	621.06
	07/01/2008	649.09	26.10	622.99	-	-	622.99
2140-MW07	01/08/2003	648.30	30.70	617.60	-	-	617.60
	09/08/2004	648.37	30.55	617.82	-	-	617.82
	09/22/2004	648.37	30.38	617.99	-	-	617.99
	10/08/2004	648.37	30.77	617.60	-	-	617.60
	10/29/2004	648.37	30.89	617.48	-	-	617.48
	11/04/2004	648.37	30.98	617.39	-	-	617.39
	11/08/2004	648.37	30.75	617.62	-	-	617.62
	12/01/2004	648.37	31.16	617.21	-	-	617.21

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/15/2004	648.37	30.75	617.62	-	-	617.62
	01/05/2005	648.37	29.97	618.40	-	-	618.40
	01/14/2005	648.37	30.09	618.28	-	-	618.28
	02/03/2005	648.37	29.75	618.62	-	-	618.62
	02/15/2005	648.37	30.19	618.18	-	-	618.18
	03/08/2005	648.37	30.00	618.37	-	-	618.37
	03/22/2005	648.37	30.44	617.93	-	-	617.93
	04/11/2005	648.37	30.09	618.28	-	-	618.28
	04/25/2005	648.37	29.60	618.77	-	-	618.77
	05/03/2005	648.37	29.83	618.54	-	-	618.54
	05/25/2005	648.37	30.22	618.15	-	-	618.15
	06/02/2005	648.37	30.37	618.00	-	-	618.00
	06/20/2005	648.37	30.52	617.85	-	-	617.85
	06/29/2005	648.37	30.61	617.76	-	-	617.76
	07/07/2005	648.37	30.74	617.63	-	-	617.63
	07/27/2005	648.37	30.27	618.10	-	-	618.10
	08/05/2005	648.37	30.19	618.18	-	-	618.18
	08/15/2005	648.37	30.65	617.72	-	-	617.72
	09/06/2005	648.37	30.11	618.26	-	-	618.26
	09/23/2005	648.37	29.99	618.38	-	-	618.38
	10/07/2005	648.37	30.02	618.35	-	-	618.35
	10/25/2005	648.37	29.28	619.09	-	-	619.09
	12/13/2005	648.37	27.67	620.70	-	-	620.70
	01/06/2006	648.37	28.39	619.98	-	-	619.98
	02/09/2006	648.37	27.39	620.98	-	-	620.98
	02/22/2006	648.37	27.29	621.08	-	-	621.08
	03/16/2006	648.37	27.66	620.71	-	-	620.71
	04/12/2006	648.37	27.77	620.60	-	-	620.60
	05/17/2006	648.37	28.39	619.98	-	-	619.98
	06/15/2006	648.37	27.98	620.39	-	-	620.39
	07/10/2006	648.37	28.73	619.64	-	-	619.64
	08/18/2006	648.37	29.53	618.84	-	-	618.84
	10/24/2006	648.37	29.82	618.55	-	-	618.55
	01/04/2007	648.37	27.29	621.08	-	-	621.08
	02/01/2007	648.37	27.72	620.65	-	-	620.65
	05/07/2007	648.37	28.16	620.21	-	-	620.21
	05/30/2007	648.37	27.12	621.25	-	-	621.25
	07/30/2007	648.37	29.21	619.16	-	-	619.16
	10/07/2007	648.37	30.64	617.73	-	-	617.73
	01/07/2008	648.37	29.57	618.80	-	-	618.80
	02/26/2008	648.37	28.28	620.09	-	-	620.09
	07/01/2008	648.37	24.40	623.97	-	-	623.97
2140-MW08	01/08/2003	637.74	28.20	609.54	-	-	609.54
	09/08/2004	637.93	28.63	609.30	-	-	609.30
	09/22/2004	637.93	28.46	609.47	-	-	609.47
	10/08/2004	637.93	28.76	609.17	-	-	609.17
	10/29/2004	637.93	28.85	609.08	-	-	609.08
	11/04/2004	637.93	28.88	609.05	-	-	609.05
	11/08/2004	637.93	28.73	609.20	-	-	609.20

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/01/2004	637.93	28.83	609.10	-	-	609.10
	12/15/2004	637.93	28.25	609.68	-	-	609.68
	01/05/2005	637.93	27.91	610.02	-	-	610.02
	01/14/2005	637.93	27.90	610.03	-	-	610.03
	02/03/2005	637.93	27.76	610.17	-	-	610.17
	02/15/2005	637.93	28.02	609.91	-	-	609.91
	03/08/2005	637.93	28.01	609.92	-	-	609.92
	03/22/2005	637.93	28.12	609.81	-	-	609.81
	04/11/2005	637.93	27.53	610.40	-	-	610.40
	04/25/2005	637.93	27.54	610.39	-	-	610.39
	05/03/2005	637.93	27.67	610.26	-	-	610.26
	05/25/2005	637.93	28.01	609.92	-	-	609.92
	06/02/2005	637.93	28.12	609.81	-	-	609.81
	06/20/2005	637.93	28.37	609.56	-	-	609.56
	06/29/2005	637.93	28.46	609.47	-	-	609.47
	07/07/2005	637.93	28.60	609.33	-	-	609.33
	07/27/2005	637.93	28.54	609.39	-	-	609.39
	08/05/2005	637.93	28.57	609.36	-	-	609.36
	08/15/2005	637.93	28.88	609.05	-	-	609.05
	09/06/2005	637.93	28.49	609.44	-	-	609.44
	09/23/2005	637.93	28.34	609.59	-	-	609.59
	10/07/2005	637.93	28.23	609.70	-	-	609.70
	10/25/2005	637.93	27.44	610.49	-	-	610.49
	12/13/2005	637.93	26.65	611.28	-	-	611.28
	01/06/2006	637.93	27.31	610.62	-	-	610.62
	02/09/2006	637.93	26.53	611.40	-	-	611.40
	02/22/2006	637.93	26.63	611.30	-	-	611.30
	03/16/2006	637.93	26.89	611.04	-	-	611.04
	04/12/2006	637.93	NR	-	NR	-	-
	05/17/2006	637.93	27.24	610.69	-	-	610.69
	06/15/2006	637.93	27.64	610.29	-	-	610.29
	07/10/2006	637.93	27.99	609.94	-	-	609.94
	08/18/2006	637.93	28.58	609.35	-	-	609.35
	10/24/2006	637.93	28.44	609.49	-	-	609.49
	01/04/2007	637.93	27.00	610.93	-	-	610.93
	02/01/2007	637.93	27.48	610.45	-	-	610.45
	05/07/2007	637.93	26.85	611.08	-	-	611.08
	05/30/2007	637.93	24.02	613.91	-	-	613.91
	07/30/2007	637.93	28.35	609.58	-	-	609.58
	10/07/2007	637.93	29.11	608.82	-	-	608.82
	01/07/2008	637.93	28.13	609.80	-	-	609.80
	02/26/2008	637.93	27.14	610.79	-	-	610.79
	07/01/2008	637.93	24.75	613.18	-	-	613.18
2140-MW09	01/08/2003	635.73	25.79	609.94	-	-	609.94
	09/08/2004	635.81	25.96	609.85	-	-	609.85
	09/22/2004	635.81	25.82	609.99	-	-	609.99
	10/08/2004	635.81	26.12	609.69	-	-	609.69
	10/29/2004	635.81	26.18	609.63	-	-	609.63
	11/04/2004	635.81	26.22	609.59	-	-	609.59

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/08/2004	635.81	26.03	609.78	-	-	609.78
	12/01/2004	635.81	26.16	609.65	-	-	609.65
	12/15/2004	635.81	25.62	610.19	-	-	610.19
	01/05/2005	635.81	25.24	610.57	-	-	610.57
	01/14/2005	635.81	25.24	610.57	-	-	610.57
	02/03/2005	635.81	25.10	610.71	-	-	610.71
	02/15/2005	635.81	25.35	610.46	-	-	610.46
	03/08/2005	635.81	25.27	610.54	-	-	610.54
	03/22/2005	635.81	25.48	610.33	-	-	610.33
	04/11/2005	635.81	24.89	610.92	-	-	610.92
	04/25/2005	635.81	24.83	610.98	-	-	610.98
	05/03/2005	635.81	25.07	610.74	-	-	610.74
	05/25/2005	635.81	25.46	610.35	-	-	610.35
	06/02/2005	635.81	25.55	610.26	-	-	610.26
	06/20/2005	635.81	25.78	610.03	-	-	610.03
	06/29/2005	635.81	25.85	609.96	-	-	609.96
	07/07/2005	635.81	25.98	609.83	-	-	609.83
	07/27/2005	635.81	25.80	610.01	-	-	610.01
	08/05/2005	635.81	25.81	610.00	-	-	610.00
	08/15/2005	635.81	26.21	609.60	-	-	609.60
	09/06/2005	635.81	25.11	610.70	-	-	610.70
	09/23/2005	635.81	25.59	610.22	-	-	610.22
	10/07/2005	635.81	25.59	610.22	-	-	610.22
	10/25/2005	635.81	24.86	610.95	-	-	610.95
	12/13/2005	635.81	24.61	611.20	-	-	611.20
	01/06/2006	635.81	NR	-	NR	-	-
	02/09/2006	635.81	23.91	611.90	-	-	611.90
	02/22/2006	635.81	23.95	611.86	-	-	611.86
	03/16/2006	635.81	24.00	611.81	-	-	611.81
	04/12/2006	635.81	24.22	611.59	-	-	611.59
	05/17/2006	635.81	24.63	611.18	-	-	611.18
	06/15/2006	635.81	24.75	611.06	-	-	611.06
	07/10/2006	635.81	25.13	610.68	-	-	610.68
	08/18/2006	635.81	25.59	610.22	-	-	610.22
	10/24/2006	635.81	25.57	610.24	-	-	610.24
	01/04/2007	635.81	24.09	611.72	-	-	611.72
	02/01/2007	635.81	24.39	611.42	-	-	611.42
	05/07/2007	635.81	24.27	611.54	-	-	611.54
	05/30/2007	635.81	23.22	612.59	-	-	612.59
	07/30/2007	635.81	25.39	610.42	-	-	610.42
	10/07/2007	635.81	25.72	610.09	-	-	610.09
	01/07/2008	635.81	25.18	610.63	-	-	610.63
	02/26/2008	635.81	24.23	611.58	-	-	611.58
	07/01/2008	635.81	25.90	609.91	-	-	609.91
2140-MW10	01/08/2003	635.03	NR	-	NR	-	-
	09/08/2004	635.03	24.13	610.90	-	-	610.90
	09/22/2004	635.03	24.02	611.01	-	-	611.01
	10/08/2004	635.03	24.33	610.70	-	-	610.70
	10/29/2004	635.03	24.55	610.48	-	-	610.48

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	11/04/2004	635.03	24.68	610.35	-	-	610.35
	11/08/2004	635.03	24.33	610.70	-	-	610.70
	12/01/2004	635.03	24.81	610.22	-	-	610.22
	12/15/2004	635.03	24.12	610.91	-	-	610.91
	01/05/2005	635.03	23.71	611.32	-	-	611.32
	01/14/2005	635.03	23.72	611.31	-	-	611.31
	02/03/2005	635.03	23.60	611.43	-	-	611.43
	02/15/2005	635.03	23.82	611.21	-	-	611.21
	03/08/2005	635.03	23.65	611.38	-	-	611.38
	03/22/2005	635.03	23.92	611.11	-	-	611.11
	04/11/2005	635.03	23.43	611.60	-	-	611.60
	04/25/2005	635.03	23.40	611.63	-	-	611.63
	05/03/2005	635.03	23.59	611.44	-	-	611.44
	05/25/2005	635.03	23.88	611.15	-	-	611.15
	06/02/2005	635.03	23.97	611.06	-	-	611.06
	06/20/2005	635.03	24.15	610.88	-	-	610.88
	06/29/2005	635.03	24.21	610.82	-	-	610.82
	07/07/2005	635.03	24.39	610.64	-	-	610.64
	07/27/2005	635.03	24.08	610.95	-	-	610.95
	08/05/2005	635.03	24.03	611.00	-	-	611.00
	08/15/2005	635.03	24.74	610.29	-	-	610.29
	09/06/2005	635.03	24.11	610.92	-	-	610.92
	09/23/2005	635.03	24.03	611.00	-	-	611.00
	10/07/2005	635.03	24.04	610.99	-	-	610.99
	10/25/2005	635.03	23.43	611.60	-	-	611.60
	12/13/2005	635.03	22.69	612.34	-	-	612.34
	01/06/2006	635.03	23.17	611.86	-	-	611.86
	02/09/2006	635.03	22.50	612.53	-	-	612.53
	02/22/2006	635.03	22.56	612.47	-	-	612.47
	03/16/2006	635.03	22.64	612.39	-	-	612.39
	04/12/2006	635.03	22.87	612.16	-	-	612.16
	05/17/2006	635.03	23.19	611.84	-	-	611.84
	06/15/2006	635.03	23.30	611.73	-	-	611.73
	07/10/2006	635.03	23.75	611.28	-	-	611.28
	08/18/2006	635.03	24.37	610.66	-	-	610.66
	10/24/2006	635.03	24.33	610.70	-	-	610.70
	01/04/2007	635.03	22.68	612.35	-	-	612.35
	02/01/2007	635.03	22.38	612.65	-	-	612.65
	05/07/2007	635.03	22.78	612.25	-	-	612.25
	05/30/2007	635.03	22.82	612.21	-	-	612.21
	07/30/2007	635.03	24.16	610.87	-	-	610.87
	10/07/2007	635.03	24.53	610.50	-	-	610.50
	01/07/2008	635.03	23.98	611.05	-	-	611.05
	02/26/2008	635.03	NR	-	NR	-	-
	07/01/2008	635.03	25.05	609.98	-	-	609.98
2140-MW11	01/08/2003	637.84	25.00	612.84	-	-	612.84
	09/08/2004	637.90	24.82	613.08	-	-	613.08
	09/22/2004	637.90	24.64	613.26	-	-	613.26
	10/08/2004	637.90	25.08	612.82	-	-	612.82

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	10/29/2004	637.90	25.20	612.70	-	-	612.70
	11/04/2004	637.90	25.25	612.65	-	-	612.65
	11/08/2004	637.90	25.04	612.86	-	-	612.86
	12/01/2004	637.90	25.31	612.59	-	-	612.59
	12/15/2004	637.90	24.85	613.05	-	-	613.05
	01/05/2005	637.90	24.41	613.49	-	-	613.49
	01/14/2005	637.90	24.39	613.51	-	-	613.51
	02/03/2005	637.90	24.19	613.71	-	-	613.71
	02/15/2005	637.90	24.45	613.45	-	-	613.45
	03/08/2005	637.90	24.35	613.55	-	-	613.55
	03/22/2005	637.90	24.61	613.29	-	-	613.29
	04/11/2005	637.90	24.19	613.71	-	-	613.71
	04/25/2005	637.90	24.09	613.81	-	-	613.81
	05/03/2005	637.90	24.23	613.67	-	-	613.67
	05/25/2005	637.90	24.57	613.33	-	-	613.33
	06/02/2005	637.90	24.66	613.24	-	-	613.24
	06/20/2005	637.90	24.83	613.07	-	-	613.07
	06/29/2005	637.90	24.90	613.00	-	-	613.00
	07/07/2005	637.90	25.04	612.86	-	-	612.86
	07/27/2005	637.90	24.76	613.14	-	-	613.14
	08/05/2005	637.90	24.76	613.14	-	-	613.14
	08/15/2005	637.90	25.22	612.68	-	-	612.68
	09/06/2005	637.90	24.59	613.31	-	-	613.31
	09/23/2005	637.90	24.53	613.37	-	-	613.37
	10/07/2005	637.90	24.52	613.38	-	-	613.38
	10/25/2005	637.90	23.88	614.02	-	-	614.02
	12/13/2005	637.90	22.63	615.27	-	-	615.27
	01/06/2006	637.90	23.22	614.68	-	-	614.68
	02/09/2006	637.90	22.20	615.70	-	-	615.70
	02/22/2006	637.90	22.22	615.68	-	-	615.68
	03/16/2006	637.90	22.36	615.54	-	-	615.54
	04/12/2006	637.90	22.62	615.28	-	-	615.28
	05/17/2006	637.90	23.15	614.75	-	-	614.75
	06/15/2006	637.90	23.10	614.80	-	-	614.80
	07/10/2006	637.90	23.60	614.30	-	-	614.30
	08/18/2006	637.90	24.12	613.78	-	-	613.78
	10/24/2006	637.90	24.08	613.82	-	-	613.82
	01/04/2007	637.90	22.45	615.45	-	-	615.45
	02/01/2007	637.90	22.58	615.32	-	-	615.32
	05/07/2007	637.90	22.45	615.45	-	-	615.45
	05/30/2007	637.90	21.71	616.19	-	-	616.19
	07/30/2007	637.90	23.70	614.20	-	-	614.20
	10/07/2007	637.90	24.18	613.72	-	-	613.72
	01/07/2008	637.90	23.85	614.05	-	-	614.05
	02/26/2008	637.90	22.30	615.60	-	-	615.60
	07/01/2008	637.90	25.15	612.75	-	-	612.75
	09/18/2008	637.90	22.92	614.98	-	-	614.98
	10/23/2008	637.90	23.22	614.68	-	-	614.68
	12/30/2008	637.90	20.53	617.37	-	-	617.37
	01/28/2009	637.90	21.15	616.75	-	-	616.75

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	02/24/2009	637.90	21.56	616.34	-	-	616.34
	03/27/2009	637.90	21.60	616.30	-	-	616.30
	04/28/2009	637.90	21.98	615.92	-	-	615.92
	05/20/2009	637.90	21.90	616.00	-	-	616.00
	06/25/2009	637.90	22.02	615.88	-	-	615.88
	07/20/2009	637.90	22.29	615.61	-	-	615.61
	08/25/2009	637.90	22.78	615.12	-	-	615.12
	09/16/2009	637.90	23.21	614.69	-	-	614.69
	10/13/2009	646.30	23.51	622.79	-	-	622.79
	11/10/2009	646.30	23.21	623.09	-	-	623.09
	12/14/2009	646.30	23.67	622.63	-	-	622.63
	01/11/2010	646.30	24.04	622.26	-	-	622.26
	02/10/2010	646.30	23.81	622.49	-	-	622.49
	03/10/2010	646.30	24.17	622.13	-	-	622.13
	04/14/2010	646.30	23.67	622.63	-	-	622.63
	05/12/2010	637.84	23.92	613.92	-	-	613.92
	06/17/2010	637.84	23.88	613.96	-	-	613.96
	07/14/2010	637.84	23.96	613.88	-	-	613.88
	08/09/2010	637.84	23.71	614.13	-	-	614.13
	09/16/2010	637.84	23.61	614.23	-	-	614.23
	10/13/2010	637.84	22.88	614.96	-	-	614.96
	11/16/2010	637.84	22.97	614.87	-	-	614.87
	12/16/2010	637.84	NR	-	NR	-	-
	01/13/2011	637.84	NR	-	NR	-	-
	03/14/2011	637.84	NR	-	NR	-	-
	04/12/2011	637.84	NR	-	NR	-	-
	05/19/2011	637.84	21.49	616.35	-	-	616.35
	06/20/2011	637.84	22.02	615.82	-	-	615.82
	07/13/2011	637.84	22.31	615.53	-	-	615.53
	08/11/2011	637.84	22.25	615.59	-	-	615.59
	09/29/2011	637.84	23.28	614.56	-	-	614.56
	10/19/2011	637.84	23.16	614.68	-	-	614.68
	11/17/2011	637.84	23.51	614.33	-	-	614.33
	12/07/2011	637.84	23.34	614.50	-	-	614.50
	01/09/2012	637.84	23.46	614.38	-	-	614.38
2140-MW12	01/08/2003	629.03	20.68	608.35	-	-	608.35
	09/08/2004	629.03	21.13	607.90	-	-	607.90
	09/15/2004	629.03	8.94	620.09	-	-	620.09
	09/22/2004	629.03	20.77	608.26	-	-	608.26
	10/08/2004	629.03	21.13	607.90	-	-	607.90
	10/29/2004	629.03	21.23	607.80	-	-	607.80
	11/04/2004	629.03	21.27	607.76	-	-	607.76
	11/08/2004	629.03	21.13	607.90	-	-	607.90
	12/01/2004	629.03	21.15	607.88	-	-	607.88
	12/15/2004	629.03	20.38	608.65	-	-	608.65
	01/05/2005	629.03	19.88	609.15	-	-	609.15
	01/14/2005	629.03	19.78	609.25	-	-	609.25
	02/03/2005	629.03	19.76	609.27	-	-	609.27
	02/15/2005	629.03	19.95	609.08	-	-	609.08

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	03/08/2005	629.03	19.98	609.05	-	-	609.05
	03/22/2005	629.03	20.11	608.92	-	-	608.92
	04/11/2005	629.03	19.27	609.76	-	-	609.76
	04/18/2005	629.03	19.32	609.71	-	-	609.71
	04/25/2005	629.03	19.48	609.55	-	-	609.55
	05/03/2005	629.03	19.61	609.42	-	-	609.42
	05/25/2005	629.03	20.01	609.02	-	-	609.02
	04/27/2006	629.03	19.31	609.72	-	-	609.72
	10/03/2006	629.03	21.10	607.93	-	-	607.93
	06/02/2005	629.03	19.89	609.14	-	-	609.14
	06/20/2005	629.03	20.58	608.45	-	-	608.45
	06/29/2005	629.03	20.74	608.29	-	-	608.29
	07/07/2005	629.03	20.96	608.07	-	-	608.07
	07/27/2005	629.03	21.50	607.53	-	-	607.53
	08/05/2005	629.03	21.12	607.91	-	-	607.91
	08/15/2005	629.03	21.37	607.66	-	-	607.66
	09/06/2005	629.03	21.14	607.89	-	-	607.89
	09/23/2005	629.03	20.83	608.20	-	-	608.20
	10/07/2005	629.03	20.42	608.61	-	-	608.61
	10/25/2005	629.03	19.39	609.64	-	-	609.64
	12/13/2005	629.03	18.69	610.34	-	-	610.34
	01/06/2006	629.03	19.35	609.68	-	-	609.68
	02/09/2006	629.03	18.52	610.51	-	-	610.51
	02/22/2006	629.03	18.58	610.45	-	-	610.45
	03/16/2006	629.03	18.54	610.49	-	-	610.49
	04/12/2006	629.03	19.99	609.04	-	-	609.04
	04/27/2006	629.03	19.31	609.72	-	-	609.72
	05/17/2006	629.03	20.16	608.87	-	-	608.87
	06/15/2006	629.03	19.95	609.08	-	-	609.08
	07/10/2006	629.03	20.20	608.83	-	-	608.83
	08/18/2006	629.03	21.07	607.96	-	-	607.96
	10/03/2006	629.03	21.10	607.93	-	-	607.93
	10/24/2006	629.03	20.73	608.30	-	-	608.30
	01/04/2007	629.03	19.19	609.84	-	-	609.84
	02/01/2007	629.03	19.26	609.77	-	-	609.77
	05/07/2007	629.03	18.72	610.31	-	-	610.31
	05/30/2007	629.03	19.11	609.92	-	-	609.92
	07/30/2007	629.03	20.01	609.02	-	-	609.02
	10/07/2007	629.03	21.87	607.16	-	-	607.16
	01/07/2008	629.03	20.12	608.91	-	-	608.91
	02/26/2008	629.03	19.14	609.89	-	-	609.89
	05/23/2007	629.03	19.09	609.94	-	-	609.94
	07/01/2008	629.03	24.90	604.13	-	-	604.13
2140-MW13	09/15/2004	NR	20.72	-	-	-	-
	04/18/2005	NR	7.55	-	-	-	-
	04/27/2006	NR	7.58	-	-	-	-
	10/03/2006	NR	9.30	-	-	-	-
	05/23/2007	NR	7.39	-	-	-	-
	07/01/2008	NR	24.05	-	-	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
2140-MW14	09/15/2004	NR	10.06	-	-	-	-
	04/18/2005	NR	8.63	-	-	-	-
	04/27/2006	NR	8.70	-	-	-	-
	10/03/2006	NR	10.39	-	-	-	-
	05/23/2007	NR	8.53	-	-	-	-
	07/01/2008	NR	21.65	-	-	-	-
2140-MW15	09/15/2004	NR	10.94	-	-	-	-
	04/18/2005	NR	9.48	-	-	-	-
	04/27/2006	NR	9.59	-	-	-	-
	10/03/2006	NR	20.25	-	-	-	-
	05/23/2007	NR	9.41	-	-	-	-
	07/01/2008	NR	21.60	-	-	-	-
2140-MW16	09/15/2004	NR	7.68	-	-	-	-
	04/18/2005	NR	6.48	-	-	-	-
	04/27/2006	NR	6.51	-	-	-	-
	10/03/2006	NR	7.95	-	-	-	-
	05/23/2007	NR	7.60	-	-	-	-
	07/01/2008	NR	21.60	-	-	-	-
2140-MW17	09/15/2004	NR	7.80	-	-	-	-
	04/18/2005	NR	6.57	-	-	-	-
	04/27/2006	NR	6.65	-	-	-	-
	10/03/2006	NR	8.05	-	-	-	-
	05/23/2007	NR	6.55	-	-	-	-
2140-MW18	09/15/2004	NR	7.50	-	-	-	-
	04/18/2005	NR	6.16	-	-	-	-
	04/27/2006	NR	6.24	-	-	-	-
	10/03/2006	NR	7.61	-	-	-	-
	05/23/2007	NR	6.15	-	-	-	-
2140-MW19	09/15/2004	NR	8.82	-	-	-	-
	04/18/2005	NR	7.67	-	-	-	-
	04/27/2006	NR	7.66	-	-	-	-
	10/03/2006	NR	9.08	-	-	-	-
	05/23/2007	NR	6.84	-	-	-	-
2140-MW20	09/15/2004	NR	7.45	-	-	-	-
	04/18/2005	NR	6.22	-	-	-	-
	04/27/2006	NR	6.10	-	-	-	-
	10/03/2006	NR	7.80	-	-	-	-
	05/23/2007	NR	6.84	-	-	-	-
2140-MW21	09/15/2004	NR	6.90	-	-	-	-
	04/18/2005	NR	6.65	-	-	-	-
	04/27/2006	NR	6.29	-	-	-	-
	10/03/2006	NR	6.60	-	-	-	-
	05/23/2007	NR	6.67	-	-	-	-

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
2140-MW26	09/15/2004	NR	11.60	-	-	-	-
	04/18/2005	NR	10.56	-	-	-	-
	04/27/2006	NR	10.56	-	-	-	-
	10/03/2006	NR	11.83	-	-	-	-
	05/23/2007	NR	10.52	-	-	-	-
2140-MW27	09/15/2004	NR	10.14	-	-	-	-
	04/18/2005	NR	9.11	-	-	-	-
	04/27/2006	NR	9.14	-	-	-	-
	10/03/2006	NR	10.35	-	-	-	-
	05/23/2007	NR	9.08	-	-	-	-
2140-MW28	09/15/2004	NR	9.26	-	-	-	-
	04/18/2005	NR	8.23	-	-	-	-
	04/27/2006	NR	8.25	-	-	-	-
	10/03/2006	NR	9.40	-	-	-	-
	05/23/2007	NR	8.19	-	-	-	-
2140-MW29	09/15/2004	NR	5.00	-	-	-	-
	04/18/2005	NR	4.97	-	-	-	-
	04/27/2006	NR	4.39	-	-	-	-
	10/03/2006	NR	4.75	-	-	-	-
	05/23/2007	NR	4.56	-	-	-	-
2140-MW30	09/15/2004	NR	5.98	-	-	-	-
	04/18/2005	NR	5.93	-	-	-	-
	04/27/2006	NR	5.91	-	-	-	-
	10/03/2006	NR	5.97	-	-	-	-
	05/23/2007	NR	6.12	-	-	-	-
2140-MW31	09/15/2004	NR	6.88	-	-	-	-
	04/18/2005	NR	6.72	-	-	-	-
	04/27/2006	NR	6.55	-	-	-	-
	10/03/2006	NR	6.74	-	-	-	-
	05/23/2007	NR	7.01	-	-	-	-
2140-MW32	09/15/2004	NR	15.92	-	-	-	-
	04/18/2005	NR	7.01	-	-	-	-
	04/27/2006	NR	7.65	-	-	-	-
	10/03/2006	NR	15.90	-	-	-	-
	05/23/2007	NR	7.94	-	-	-	-
2140-MW34	01/08/2003	632.64	23.99	608.65	-	-	608.65
	09/08/2004	632.64	24.43	608.21	-	-	608.21
	09/22/2004	632.64	24.12	608.52	-	-	608.52
	10/08/2004	632.64	24.45	608.19	-	-	608.19
	10/29/2004	632.64	24.57	608.07	-	-	608.07
	11/04/2004	632.64	24.61	608.03	-	-	608.03
	11/08/2004	632.64	24.51	608.13	-	-	608.13
	12/01/2004	632.64	24.05	608.59	-	-	608.59

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/15/2004	632.64	23.81	608.83	-	-	608.83
	01/05/2005	632.64	23.30	609.34	-	-	609.34
	01/14/2005	632.64	23.22	609.42	-	-	609.42
	02/03/2005	632.64	23.14	609.50	-	-	609.50
	02/15/2005	632.64	23.35	609.29	-	-	609.29
	03/08/2005	632.64	23.40	609.24	-	-	609.24
	03/22/2005	632.64	NR	-	NR	-	-
	04/11/2005	632.64	22.73	609.91	-	-	609.91
	04/25/2005	632.64	22.87	609.77	-	-	609.77
	05/03/2005	632.64	23.03	609.61	-	-	609.61
	05/25/2005	632.64	23.04	609.60	-	-	609.60
	06/02/2005	632.64	23.59	609.05	-	-	609.05
	06/20/2005	632.64	23.94	608.70	-	-	608.70
	06/29/2005	632.64	24.06	608.58	-	-	608.58
	07/07/2005	632.64	24.27	608.37	-	-	608.37
	07/27/2005	632.64	24.34	608.30	-	-	608.30
	08/05/2005	632.64	24.41	608.23	-	-	608.23
	08/15/2005	632.64	24.65	607.99	-	-	607.99
	09/06/2005	632.64	24.43	608.21	-	-	608.21
	09/23/2005	632.64	24.16	608.48	-	-	608.48
	10/07/2005	632.64	23.79	608.85	-	-	608.85
	10/25/2005	632.64	22.79	609.85	-	-	609.85
	12/13/2005	632.64	NR	-	NR	-	-
	01/06/2006	632.64	NR	-	NR	-	-
	02/09/2006	632.64	21.85	610.79	-	-	610.79
	02/22/2006	632.64	NR	-	NR	-	-
	03/16/2006	632.64	21.95	610.69	-	-	610.69
	04/12/2006	632.64	22.48	610.16	-	-	610.16
	05/17/2006	632.64	22.96	609.68	-	-	609.68
	06/15/2006	632.64	23.18	609.46	-	-	609.46
	07/10/2006	632.64	23.54	609.10	-	-	609.10
	08/18/2006	632.64	24.38	608.26	-	-	608.26
	10/24/2006	632.64	24.81	607.83	-	-	607.83
	01/04/2007	632.64	22.57	610.07	-	-	610.07
	02/01/2007	632.64	22.61	610.03	-	-	610.03
	05/07/2007	632.64	22.11	610.53	-	-	610.53
	05/30/2007	632.64	24.78	607.86	-	-	607.86
	07/30/2007	632.64	24.09	608.55	-	-	608.55
	10/07/2007	632.64	24.89	607.75	-	-	607.75
	01/07/2008	632.64	23.56	609.08	-	-	609.08
	02/26/2008	632.64	NR	-	NR	-	-
2140-MW35	01/08/2003	633.25	24.51	608.74	-	-	608.74
	09/08/2004	633.25	24.93	608.32	-	-	608.32
	09/22/2004	633.25	24.65	608.60	-	-	608.60
	10/08/2004	633.25	24.99	608.26	-	-	608.26
	10/29/2004	633.25	25.27	607.98	-	-	607.98
	11/04/2004	633.25	25.16	608.09	-	-	608.09
	11/08/2004	633.25	25.05	608.20	-	-	608.20
	12/01/2004	633.25	24.49	608.76	-	-	608.76

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	12/15/2004	633.25	24.34	608.91	-	-	608.91
	01/05/2005	633.25	23.85	609.40	-	-	609.40
	01/14/2005	633.25	23.76	609.49	-	-	609.49
	02/03/2005	633.25	23.63	609.62	-	-	609.62
	02/15/2005	633.25	23.89	609.36	-	-	609.36
	03/08/2005	633.25	23.91	609.34	-	-	609.34
	03/22/2005	633.25	24.05	609.20	-	-	609.20
	04/11/2005	633.25	23.31	609.94	-	-	609.94
	04/25/2005	633.25	23.34	609.91	-	-	609.91
	05/03/2005	633.25	23.53	609.72	-	-	609.72
	05/25/2005	633.25	23.92	609.33	-	-	609.33
	06/02/2005	633.25	24.11	609.14	-	-	609.14
	06/20/2005	633.25	24.46	608.79	-	-	608.79
	06/29/2005	633.25	24.58	608.67	-	-	608.67
	07/07/2005	633.25	24.80	608.45	-	-	608.45
	07/27/2005	633.25	24.81	608.44	-	-	608.44
	08/05/2005	633.25	24.86	608.39	-	-	608.39
	08/15/2005	633.25	25.17	608.08	-	-	608.08
	09/06/2005	633.25	24.86	608.39	-	-	608.39
	09/23/2005	633.25	24.60	608.65	-	-	608.65
	10/07/2005	633.25	24.31	608.94	-	-	608.94
	10/25/2005	633.25	23.31	609.94	-	-	609.94
	12/13/2005	633.25	22.50	610.75	-	-	610.75
	01/06/2006	633.25	23.22	610.03	-	-	610.03
	02/09/2006	633.25	22.32	610.93	-	-	610.93
	02/22/2006	633.25	22.37	610.88	-	-	610.88
	03/16/2006	633.25	22.44	610.81	-	-	610.81
	04/12/2006	633.25	22.96	610.29	-	-	610.29
	05/17/2006	633.25	23.42	609.83	-	-	609.83
	06/15/2006	633.25	23.75	609.50	-	-	609.50
	07/10/2006	633.25	24.02	609.23	-	-	609.23
	08/18/2006	633.25	24.89	608.36	-	-	608.36
	10/24/2006	633.25	24.63	608.62	-	-	608.62
	01/04/2007	633.25	23.09	610.16	-	-	610.16
	02/01/2007	633.25	23.11	610.14	-	-	610.14
	05/07/2007	633.25	22.56	610.69	-	-	610.69
	05/30/2007	633.25	22.78	610.47	-	-	610.47
	07/30/2007	633.25	24.54	608.71	-	-	608.71
	10/07/2007	633.25	25.53	607.72	-	-	607.72
	01/07/2008	633.25	24.11	609.14	-	-	609.14
	02/26/2008	633.25	23.04	610.21	-	-	610.21
	09/18/2008	633.25	23.85	609.40	-	-	609.40
	10/23/2008	633.25	24.07	609.18	-	-	609.18
	12/30/2008	633.25	21.60	611.65	21.59	0.01	611.66
	01/28/2009	633.25	22.30	610.95	-	-	610.95
	02/24/2009	633.25	22.28	610.97	-	-	610.97
	03/27/2009	633.25	21.94	611.31	-	-	611.31
	04/28/2009	633.25	22.32	610.93	-	-	610.93
	05/20/2009	633.25	22.38	610.87	-	-	610.87
	06/25/2009	633.25	22.83	610.42	-	-	610.42

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
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Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	07/20/2009	633.25	23.35	609.90	-	-	609.90
	08/25/2009	633.25	24.00	609.25	-	-	609.25
	09/16/2009	633.25	24.43	608.82	-	-	608.82
	10/13/2009	646.30	24.52	621.78	-	-	621.78
	11/10/2009	646.30	24.31	621.99	-	-	621.99
	12/14/2009	646.30	24.26	622.04	-	-	622.04
	01/11/2010	646.30	24.34	621.96	-	-	621.96
	02/10/2010	646.30	23.78	622.52	-	-	622.52
	03/10/2010	646.30	24.18	622.12	-	-	622.12
	04/14/2010	646.30	23.61	622.69	-	-	622.69
	05/12/2010	633.25	24.02	609.23	-	-	609.23
	06/17/2010	633.25	24.56	608.69	-	-	608.69
	07/14/2010	633.25	24.73	608.52	-	-	608.52
	08/09/2010	633.25	24.37	608.88	-	-	608.88
	09/16/2010	633.25	24.78	608.47	-	-	608.47
	10/13/2010	633.25	23.47	609.78	-	-	609.78
	11/16/2010	633.25	23.68	609.57	-	-	609.57
	12/16/2010	633.25	NR	-	NR	-	-
	01/13/2011	633.25	NR	-	NR	-	-
	03/14/2011	633.25	NR	-	NR	-	-
	04/12/2011	633.25	NR	-	NR	-	-
	05/19/2011	633.25	21.81	611.44	-	-	611.44
	06/20/2011	633.25	22.72	610.53	-	-	610.53
	07/13/2011	633.25	23.27	609.98	-	-	609.98
	08/11/2011	633.25	22.89	610.36	-	-	610.36
	09/29/2011	633.25	24.59	608.66	-	-	608.66
	10/19/2011	633.25	24.37	608.88	-	-	608.88
	11/17/2011	633.25	24.39	608.86	-	-	608.86
	12/07/2011	633.25	24.25	609.00	-	-	609.00
	01/09/2012	633.25	23.99	609.26	-	-	609.26
2140-MW36	01/08/2003	640.57	25.82	614.75	-	-	614.75
	09/08/2004	640.57	25.64	614.93	-	-	614.93
	09/22/2004	640.57	25.53	615.04	-	-	615.04
	10/08/2004	640.57	25.91	614.66	-	-	614.66
	10/29/2004	640.57	26.09	614.48	-	-	614.48
	11/04/2004	640.57	26.16	614.41	-	-	614.41
	11/08/2004	640.57	25.90	614.67	-	-	614.67
	12/01/2004	640.57	26.15	614.42	-	-	614.42
	12/15/2004	640.57	25.76	614.81	-	-	614.81
	01/05/2005	640.57	25.36	615.21	-	-	615.21
	01/14/2005	640.57	25.50	615.07	-	-	615.07
	02/03/2005	640.57	25.23	615.34	-	-	615.34
	02/15/2005	640.57	25.52	615.05	-	-	615.05
	03/08/2005	640.57	25.16	615.41	-	-	615.41
	03/22/2005	640.57	25.71	614.86	-	-	614.86
	04/11/2005	640.57	25.47	615.10	-	-	615.10
	04/25/2005	640.57	24.84	615.73	-	-	615.73
	05/03/2005	640.57	25.22	615.35	-	-	615.35
	05/25/2005	640.57	25.55	615.02	-	-	615.02

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	640.57	25.54	615.03	-	-	615.03
	06/20/2005	640.57	25.61	614.96	-	-	614.96
	06/29/2005	640.57	25.67	614.90	-	-	614.90
	07/07/2005	640.57	25.76	614.81	-	-	614.81
	07/27/2005	640.57	25.42	615.15	-	-	615.15
	08/05/2005	640.57	25.44	615.13	-	-	615.13
	08/15/2005	640.57	25.79	614.78	-	-	614.78
	09/06/2005	640.57	25.23	615.34	-	-	615.34
	09/23/2005	640.57	25.13	615.44	-	-	615.44
	10/07/2005	640.57	25.39	615.18	-	-	615.18
	10/25/2005	640.57	24.79	615.78	-	-	615.78
	12/13/2005	640.57	22.95	617.62	-	-	617.62
	01/06/2006	640.57	24.17	616.40	-	-	616.40
	02/09/2006	640.57	22.76	617.81	-	-	617.81
	02/22/2006	640.57	22.74	617.83	-	-	617.83
	03/16/2006	640.57	23.21	617.36	-	-	617.36
	04/12/2006	640.57	23.49	617.08	-	-	617.08
	05/17/2006	640.57	23.95	616.62	-	-	616.62
	06/15/2006	640.57	23.98	616.59	-	-	616.59
	07/10/2006	640.57	24.57	616.00	-	-	616.00
	08/18/2006	640.57	25.14	615.43	-	-	615.43
	10/24/2006	640.57	25.13	615.44	-	-	615.44
	01/04/2007	640.57	23.05	617.52	-	-	617.52
	02/01/2007	640.57	23.53	617.04	-	-	617.04
	05/07/2007	640.57	23.61	616.96	-	-	616.96
	05/30/2007	640.57	22.38	618.19	-	-	618.19
	07/30/2007	640.57	24.63	615.94	-	-	615.94
	10/07/2007	640.57	25.98	614.59	-	-	614.59
	01/07/2008	640.57	24.69	615.88	-	-	615.88
	02/26/2008	640.57	23.32	617.25	-	-	617.25
2140-MW37	01/08/2003	646.42	NR	-	NR	-	-
	09/08/2004	646.42	27.22	619.20	-	-	619.20
	09/22/2004	646.42	27.13	619.29	-	-	619.29
	10/08/2004	646.42	27.52	618.90	-	-	618.90
	10/29/2004	646.42	27.68	618.74	-	-	618.74
	11/04/2004	646.42	27.76	618.66	-	-	618.66
	11/08/2004	646.42	27.61	618.81	-	-	618.81
	12/01/2004	646.42	27.99	618.43	-	-	618.43
	12/15/2004	646.42	27.40	619.02	-	-	619.02
	01/05/2005	646.42	26.88	619.54	-	-	619.54
	01/14/2005	646.42	26.92	619.50	-	-	619.50
	02/03/2005	646.42	26.55	619.87	-	-	619.87
	02/15/2005	646.42	NR	-	NR	-	-
	03/08/2005	646.42	NR	-	NR	-	-
	03/22/2005	646.42	27.28	619.14	-	-	619.14
	04/11/2005	646.42	26.82	619.60	-	-	619.60
	04/25/2005	646.42	26.24	620.18	-	-	620.18
	05/03/2005	646.42	26.64	619.78	-	-	619.78
	05/25/2005	646.42	27.07	619.35	-	-	619.35

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	646.42	27.23	619.19	-	-	619.19
	06/20/2005	646.42	27.31	619.11	-	-	619.11
	06/29/2005	646.42	27.40	619.02	-	-	619.02
	07/07/2005	646.42	27.54	618.88	-	-	618.88
	07/27/2005	646.42	26.82	619.60	-	-	619.60
	08/05/2005	646.42	26.79	619.63	-	-	619.63
	08/15/2005	646.42	27.73	618.69	-	-	618.69
	09/06/2005	646.42	26.71	619.71	-	-	619.71
	09/23/2005	646.42	26.64	619.78	-	-	619.78
	10/07/2005	646.42	27.04	619.38	-	-	619.38
	10/25/2005	646.42	26.29	620.13	-	-	620.13
	12/13/2005	646.42	24.29	622.13	-	-	622.13
	01/06/2006	646.42	25.10	621.32	-	-	621.32
	02/09/2006	646.42	NR	-	NR	-	-
	02/22/2006	646.42	23.87	622.55	-	-	622.55
	03/16/2006	646.42	24.18	622.24	-	-	622.24
	04/12/2006	646.42	24.66	621.76	-	-	621.76
	05/17/2006	646.42	24.81	621.61	-	-	621.61
	06/15/2006	646.42	24.86	621.56	-	-	621.56
	07/10/2006	646.42	25.15	621.27	-	-	621.27
	08/18/2006	646.42	25.71	620.71	-	-	620.71
	10/24/2006	646.42	25.94	620.48	-	-	620.48
	01/04/2007	646.42	24.12	622.30	-	-	622.30
	02/01/2007	646.42	24.13	622.29	-	-	622.29
	05/07/2007	646.42	23.91	622.51	-	-	622.51
	05/30/2007	646.42	25.25	621.17	-	-	621.17
	07/30/2007	646.42	25.31	621.11	-	-	621.11
	10/07/2007	646.42	26.11	620.31	-	-	620.31
	01/07/2008	646.42	26.02	620.40	-	-	620.40
	02/26/2008	646.42	24.75	621.67	-	-	621.67
2140-PZ01	01/08/2003	637.37	26.01	611.36	-	-	611.36
	09/08/2004	637.94	26.40	611.54	-	-	611.54
	09/22/2004	637.94	25.85	612.09	-	-	612.09
	10/08/2004	637.94	27.68	610.26	-	-	610.26
	10/29/2004	637.94	26.76	611.18	-	-	611.18
	11/04/2004	637.94	26.80	611.14	-	-	611.14
	11/08/2004	637.94	26.51	611.43	-	-	611.43
	12/01/2004	637.94	26.85	611.09	-	-	611.09
	12/15/2004	637.94	26.25	611.69	-	-	611.69
	01/05/2005	637.94	25.81	612.13	-	-	612.13
	01/14/2005	637.94	25.86	612.08	-	-	612.08
	02/03/2005	637.94	25.60	612.34	-	-	612.34
	02/15/2005	637.94	25.96	611.98	-	-	611.98
	03/08/2005	637.94	25.81	612.13	-	-	612.13
	03/22/2005	637.94	26.07	611.87	-	-	611.87
	04/11/2005	637.94	25.54	612.40	-	-	612.40
	04/25/2005	637.94	25.29	612.65	-	-	612.65
	05/03/2005	637.94	25.58	612.36	-	-	612.36
	05/25/2005	637.94	26.30	611.64	-	-	611.64

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	637.94	25.19	612.75	-	-	612.75
	06/20/2005	637.94	26.23	611.71	-	-	611.71
	06/29/2005	637.94	26.29	611.65	-	-	611.65
	07/07/2005	637.94	26.17	611.77	-	-	611.77
	07/27/2005	637.94	26.08	611.86	-	-	611.86
	08/05/2005	637.94	26.05	611.89	-	-	611.89
	08/15/2005	637.94	26.69	611.25	-	-	611.25
	09/06/2005	637.94	25.98	611.96	-	-	611.96
	09/23/2005	637.94	25.91	612.03	-	-	612.03
	10/07/2005	637.94	26.13	611.81	-	-	611.81
	10/25/2005	637.94	25.38	612.56	-	-	612.56
	12/13/2005	637.94	24.06	613.88	-	-	613.88
	01/06/2006	637.94	24.90	613.04	-	-	613.04
	02/09/2006	637.94	23.86	614.08	-	-	614.08
	02/22/2006	637.94	23.85	614.09	-	-	614.09
	03/16/2006	637.94	24.08	613.86	-	-	613.86
	04/12/2006	637.94	24.06	613.88	-	-	613.88
	05/17/2006	637.94	24.65	613.29	-	-	613.29
	06/15/2006	637.94	24.51	613.43	-	-	613.43
	07/10/2006	637.94	25.09	612.85	-	-	612.85
	08/18/2006	637.94	NR	-	NR	-	-
	10/24/2006	637.94	NR	-	NR	-	-
	01/04/2007	637.94	23.80	614.14	-	-	614.14
	02/01/2007	637.94	24.28	613.66	-	-	613.66
	05/07/2007	637.94	24.62	613.32	-	-	613.32
	05/30/2007	637.94	21.70	616.24	-	-	616.24
	07/30/2007	637.94	25.58	612.36	-	-	612.36
	10/07/2007	637.94	NR	-	NR	-	-
	01/07/2008	637.94	25.16	612.78	-	-	612.78
	02/26/2008	637.94	24.08	613.86	-	-	613.86
2140-PZ02	01/08/2003	638.80	26.49	612.31	-	-	612.31
	09/08/2004	639.02	26.86	612.16	-	-	612.16
	09/22/2004	639.02	26.89	612.13	-	-	612.13
	10/08/2004	639.02	27.17	611.85	-	-	611.85
	10/29/2004	639.02	27.28	611.74	-	-	611.74
	11/04/2004	639.02	27.36	611.66	-	-	611.66
	11/08/2004	639.02	27.06	611.96	-	-	611.96
	12/01/2004	639.02	27.38	611.64	-	-	611.64
	12/15/2004	639.02	26.83	612.19	-	-	612.19
	01/05/2005	639.02	26.40	612.62	-	-	612.62
	01/14/2005	639.02	26.44	612.58	-	-	612.58
	02/03/2005	639.02	26.18	612.84	-	-	612.84
	02/15/2005	639.02	26.55	612.47	-	-	612.47
	03/08/2005	639.02	27.18	611.84	-	-	611.84
	03/22/2005	639.02	26.50	612.52	-	-	612.52
	04/11/2005	639.02	26.18	612.84	-	-	612.84
	04/25/2005	639.02	25.75	613.27	-	-	613.27
	05/03/2005	639.02	26.18	612.84	-	-	612.84
	05/25/2005	639.02	26.64	612.38	-	-	612.38

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	639.02	26.02	613.00	-	-	613.00
	06/20/2005	639.02	26.72	612.30	-	-	612.30
	06/29/2005	639.02	26.81	612.21	-	-	612.21
	07/07/2005	639.02	26.95	612.07	-	-	612.07
	07/27/2005	639.02	26.45	612.57	-	-	612.57
	08/05/2005	639.02	26.43	612.59	-	-	612.59
	08/15/2005	639.02	27.14	611.88	-	-	611.88
	09/06/2005	639.02	26.36	612.66	-	-	612.66
	09/23/2005	639.02	26.30	612.72	-	-	612.72
	10/07/2005	639.02	26.68	612.34	-	-	612.34
	10/25/2005	639.02	25.95	613.07	-	-	613.07
	12/13/2005	639.02	24.40	614.62	-	-	614.62
	01/06/2006	639.02	25.32	613.70	-	-	613.70
	02/09/2006	639.02	24.04	614.98	-	-	614.98
	02/22/2006	639.02	24.01	615.01	-	-	615.01
	03/16/2006	639.02	24.28	614.74	-	-	614.74
	04/12/2006	639.02	24.36	614.66	-	-	614.66
	05/17/2006	639.02	24.80	614.22	-	-	614.22
	06/15/2006	639.02	NR	-	NR	-	-
	07/10/2006	639.02	NR	-	NR	-	-
	08/18/2006	639.02	24.85	614.17	-	-	614.17
	10/24/2006	639.02	24.67	614.35	-	-	614.35
	01/04/2007	639.02	24.31	614.71	-	-	614.71
	02/01/2007	639.02	24.66	614.36	-	-	614.36
	05/07/2007	639.02	24.13	614.89	-	-	614.89
	05/30/2007	639.02	NR	-	NR	-	-
	07/30/2007	639.02	24.88	614.14	-	-	614.14
	10/07/2007	639.02	NR	-	NR	-	-
	01/07/2008	639.02	25.08	613.94	-	-	613.94
	02/26/2008	639.02	24.70	614.32	-	-	614.32
2140-PZ03	01/08/2003	638.39	26.10	612.29	-	-	612.29
	09/08/2004	638.85	26.00	612.85	-	-	612.85
	09/22/2004	638.85	26.83	612.02	-	-	612.02
	10/08/2004	638.85	26.23	612.62	-	-	612.62
	10/29/2004	638.85	26.36	612.49	-	-	612.49
	11/04/2004	638.85	26.44	612.41	-	-	612.41
	11/08/2004	638.85	26.02	612.83	-	-	612.83
	12/01/2004	638.85	26.42	612.43	-	-	612.43
	12/15/2004	638.85	25.99	612.86	-	-	612.86
	01/05/2005	638.85	25.55	613.30	-	-	613.30
	01/14/2005	638.85	25.62	613.23	-	-	613.23
	02/03/2005	638.85	25.46	613.39	-	-	613.39
	02/15/2005	638.85	25.62	613.23	-	-	613.23
	03/08/2005	638.85	25.54	613.31	-	-	613.31
	03/22/2005	638.85	25.80	613.05	-	-	613.05
	04/11/2005	638.85	25.56	613.29	-	-	613.29
	04/25/2005	638.85	25.33	613.52	-	-	613.52
	05/03/2005	638.85	25.42	613.43	-	-	613.43
	05/25/2005	638.85	25.75	613.10	-	-	613.10

**Table E-1
Historical Well Gauging Data Summary**

**AAFES
(Building P2140)
Fort Drum**

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)
	06/02/2005	638.85	29.86	608.99	-	-	608.99
	06/20/2005	638.85	25.89	612.96	-	-	612.96
	06/29/2005	638.85	25.98	612.87	-	-	612.87
	07/07/2005	638.85	26.42	612.43	-	-	612.43
	07/27/2005	638.85	25.90	612.95	-	-	612.95
	08/05/2005	638.85	25.88	612.97	-	-	612.97
	08/15/2005	638.85	26.21	612.64	-	-	612.64
	09/06/2005	638.85	25.78	613.07	-	-	613.07
	09/23/2005	638.85	25.72	613.13	-	-	613.13
	10/07/2005	638.85	25.58	613.27	-	-	613.27
	10/25/2005	638.85	25.15	613.70	-	-	613.70
	12/13/2005	638.85	24.01	614.84	-	-	614.84
	01/06/2006	638.85	24.74	614.11	-	-	614.11
	02/09/2006	638.85	23.71	615.14	-	-	615.14
	02/22/2006	638.85	23.68	615.17	-	-	615.17
	03/16/2006	638.85	23.88	614.97	-	-	614.97
	04/12/2006	638.85	24.08	614.77	-	-	614.77
	05/17/2006	638.85	24.59	614.26	-	-	614.26
	06/15/2006	638.85	24.29	614.56	-	-	614.56
	07/10/2006	638.85	24.98	613.87	-	-	613.87
	08/18/2006	638.85	25.51	613.34	-	-	613.34
	10/24/2006	638.85	25.59	613.26	-	-	613.26
	01/04/2007	638.85	23.85	615.00	-	-	615.00
	02/01/2007	638.85	24.10	614.75	-	-	614.75
	05/07/2007	638.85	24.29	614.56	-	-	614.56
	05/30/2007	638.85	22.38	616.47	-	-	616.47
	07/30/2007	638.85	25.33	613.52	-	-	613.52
	10/07/2007	638.85	25.27	613.58	-	-	613.58
	01/07/2008	638.85	25.15	613.70	-	-	613.70
	02/26/2008	638.85	23.91	614.94	-	-	614.94

NA = Not Available/Not Analyzed
 ND = Not Detected
 NR = Not Recorded

Table E-2
 AAFES (Building P-2140)
 November 2011 - January 2012 O&M Data
 Fort Drum, NY

Date	Time	System Condition	SVE Hour Meter	SVE Hours Operated	Sparge Hour Meter	Sparge Hours Operated	SVE Influent Vacuum (in Hg)	SVE Influent Temperature (F)	Barometric Pressure (in Hg)	SVE Effluent Pressure (psi)	SVE Effluent Temperature (F)	SVE Differential Pressure (in H ₂ O)	Sparge Influent Pressure (psi)	Sparge Influent Temperature (F)	Sparge Effluent Pressure (psi)	Sparge Effluent Temperature (F)	Sparge Differential Pressure (in H ₂ O)	OWS Cumulative Flow* (gallons)	AS Cumulative Flow* (gallons)	AS Static Pressure (in H ₂ O)	Air Flow (cfm)	System Effluent (ppm)	Total Mass Recovered (lbs)	Total Recovery Rate (lbs/hr)	Notes
11/01/11	0823	On	63808.5	22.7	20349.4	22.7	6.0	68.5	30.30	0.0	120.0	2.0	8.5	124.0	8.0	76.0	0.0	678719.0	1473670.0	0.0	467.5	0.1	0.006	0.000	
11/02/11	0737	On	63831.7	23.2	20372.6	23.2	6.0	68.0	30.23	0.0	118.0	2.0	8.5	120.0	8.0	78.0	0.0	678719.0	1473670.0	0.0	467.2	0.1	0.007	0.000	
11/03/11	1240	Off	63858.0	26.3	20399.0	26.4	6.0	73.0	30.03	0.0	131.0	2.0	8.0	140.0	6.5	92.0	0.0	678719.0	1473670.0	0.0	463.5	4.1	0.300	0.011	
11/04/11	1130	On	63880.9	22.9	20421.9	22.9	5.0	72.5	30.23	0.0	123.9	2.0	8.5	128.0	7.5	82.0	0.0	678719.0	1473670.0	0.0	465.2	2.1	0.134	0.006	
11/07/11	1239	On	63955.0	74.1	20496.1	74.2	6.0	73.0	30.22	0.0	131.0	2.0	7.5	138.0	6.0	94.0	0.0	678719.0	1473670.0	0.0	465.0	0.4	0.083	0.001	
11/08/11	0758	On	63974.4	19.4	20515.3	19.2	6.0	69.5	30.21	0.0	128.0	2.0	8.0	136.0	6.5	88.0	0.0	678719.0	1473670.0	0.0	466.4	0.2	0.011	0.001	
11/09/11	1247	On	64003.2	28.8	20544.2	28.9	6.0	82.0	29.98	0.0	140.0	2.0	6.5	154.0	5.0	110.0	0.0	678719.0	1473670.0	0.0	459.2	0.2	0.016	0.001	
11/10/11	0847	On	64023.0	19.8	20564.0	19.8	6.0	72.5	29.84	0.0	125.5	2.0	8.0	130.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	462.2	0.1	0.005	0.000	
11/11/11	1140	On	64050.1	27.1	20591.1	27.1	6.0	72.5	29.69	0.0	122.0	2.0	7.5	128.0	7.0	76.0	0.0	678719.0	1473670.0	0.0	461.1	0.1	0.007	0.000	
11/14/11	0957	On	64120.3	70.2	20661.3	70.2	6.0	79.5	29.62	0.0	137.0	2.0	7.0	142.0	5.5	96.0	0.0	678719.0	1473670.0	0.0	457.5	0.1	0.019	0.000	
11/15/11	0723	On	64141.8	21.5	20682.8	21.5	6.0	70.5	29.72	0.0	125.5	2.0	7.5	132.0	6.5	82.0	0.0	678719.0	1473670.0	0.0	462.2	0.2	0.012	0.001	
11/16/11	1334	On	64172.0	30.2	20712.9	30.1	6.0	71.5	29.80	0.0	129.0	2.0	7.5	136.0	6.0	92.0	0.0	678719.0	1473670.0	0.0	462.4	0.1	0.008	0.000	
11/17/11	0941	On	64192.1	20.1	20733.1	20.2	6.0	70.5	29.89	0.0	121.0	2.0	8.0	124.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	463.5	0.1	0.006	0.000	
11/18/11	0725	On	64213.8	21.7	20754.7	21.6	6.0	72.5	30.20	0.0	118.0	2.0	9.0	118.0	8.5	74.0	0.0	678719.0	1473670.0	0.0	465.0	0.1	0.006	0.000	
11/21/11	0824	On	64286.8	73.0	20827.8	73.1	6.0	72.5	30.38	0.0	118.0	2.0	9.5	114.0	8.5	72.0	0.0	678719.0	1473670.0	0.0	466.4	0.1	0.020	0.000	
11/22/11	0704	On	64309.5	22.7	20850.4	22.6	6.0	68.5	30.30	0.0	110.0	2.0	9.5	108.0	9.0	66.0	0.0	678719.0	1473670.0	0.0	467.5	0.2	0.013	0.001	
11/28/11	0813	On	64454.6	145.1	20995.5	145.1	6.0	70.5	30.05	0.0	123.5	2.0	9.0	128.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	464.7	0.2	0.081	0.001	
11/29/11	0830	On	64478.9	24.3	21019.8	24.3	6.0	71.5	29.81	0.0	127.0	2.0	7.5	132.0	6.0	90.0	0.0	678719.0	1473670.0	0.0	462.4	0.2	0.013	0.001	
11/30/11	0904	On	64503.5	24.6	21044.4	24.6	6.0	70.5	29.59	0.0	121.0	2.0	8.5	120.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	461.2	0.1	0.007	0.000	
12/01/11	0835	On	64526.9	23.4	21067.9	23.5	6.0	70.5	30.25	0.0	114.5	2.0	9.5	110.0	9.0	72.0	0.0	678719.0	1473670.0	0.0	465.8	0.1	0.007	0.000	
12/02/11	0949	On	64552.2	25.3	21093.1	25.2	6.0	70.5	30.33	0.0	120.0	2.0	9.5	118.0	8.0	82.0	0.0	678719.0	1473670.0	0.0	466.9	0.1	0.007	0.000	
12/05/11	1133	On	64626.0	73.8	21166.9	73.8	6.0	70.5	30.19	0.0	123.5	2.0	8.0	126.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	465.8	0.1	0.021	0.000	
12/06/11	0754	On	64646.1	20.1	21187.0	20.1	6.0	72.5	30.08	0.0	119.0	2.0	9.0	110.0	8.5	76.0	0.0	678719.0	1473670.0	0.0	464.1	0.5	0.028	0.001	
12/07/11	0849	On	64671.0	24.9	21211.9	24.9	6.0	70.5	29.91	0.0	118.0	2.0	9.0	110.0	8.0	76.0	0.0	678719.0	1473670.0	0.0	463.7	0.3	0.021	0.001	
12/08/11	0804	On	64694.3	23.3	21235.2	23.3	6.0	70.5	29.97	0.0	114.5	2.0	9.5	108.0	9.0	68.0	0.0	678719.0	1473670.0	0.0	464.1	0.4	0.026	0.001	
12/09/11	0858	On	64719.1	24.8	21260.0	24.8	6.0	72.5	30.17	0.0	114.5	2.0	9.5	108.0	9.0	72.0	0.0	678719.0	1473670.0	0.0	464.8	0.5	0.035	0.001	
12/12/11	0800	Off	64726.1	7.0	21267.0	7.0	NR	NR	30.46	NR	NR	NR	NR	NR	NR	NR	NR	678719.0	1473670.0	NR	NR	NR	NR	NR	Off for MIP work
12/13/11	NR	Off	64726.1	0.0	21267.0	0.0	NR	NR	30.40	NR	NR	NR	NR	NR	NR	NR	NR	678719.0	1473670.0	NR	NR	NR	NR	NR	Off for MIP work
12/14/11	NR	Off	64726.1	0.0	21267.0	0.0	NR	NR	30.31	NR	NR	NR	NR	NR	NR	NR	NR	678719.0	1473670.0	NR	NR	NR	NR	NR	Off for MIP work. System restarted 14:00
12/15/11	0919	On	64745.7	19.6	21286.6	19.6	6.0	69.5	29.69	0.0	120.0	2.0	8.5	118.0	7.5	78.0	0.0	678719.0	1473670.0	0.0	462.4	0.3	0.016	0.001	
12/16/11	800	On	64768.3	22.6	21309.2	22.6	6.0	67.0	29.99	0.0	114.5	2.0	9.5	110.0	9.0	64.0	0.0	678719.0	1473670.0	0.0	465.8	0.4	0.025	0.001	
12/19/11	0625	On	64838.8	70.5	21379.7	70.5	6.0	71.5	29.87	0.0	113.5	2.0	9.5	108.0	9.0	72.0	0.0	678719.0	1473670.0	0.0	462.9	0.2	0.039	0.001	
12/20/11	0828	On	64864.7	25.9	21405.7	26.0	6.0	64.0	30.17	0.0	106.5	2.0	9.5	98.0	9.5	62.0	0.0	678719.0	1473670.0	0.0	468.5	0.4	0.029	0.001	
12/21/11	0646	On	64887.1	22.4	21428.0	22.3	6.0	70.5	29.69	0.0	113.3	2.0	8.5	108.0	7.5	76.0	0.0	678719.0	1473670.0	0.0	461.9	0.2	0.012	0.001	
12/27/11	0603	On	65030.2	143.1	21571.3	143.3	6.0	70.5	29.38	0.0	110.0	2.0	9.5	102.0	8.5	72.0	0.0	678719.0	1473670.0	0.0	459.5	0.3	0.118	0.001	
12/29/11	0616	On	65078.9	48.7	21619.5	48.2	6.0	61.5	29.99	0.0	95.0	2.0	10.0	80.0	9.5	48.0	0.0	678719.0	1473670.0	0.0	468.3	0.1	0.014	0.000	
12/30/11	0901	On	65105.4	26.5	21646.3	26.8	4.0	64.0	29.94	0.0	104.5	2.0	9.5	98.0	9.0	64.0	0.0	678719.0	1473670.0	0.0	466.8	0.2	0.015	0.000	
01/03/12	0717	On	65199.5	94.1	21740.5	94.2	4.0	60.5	30.04	0.0	93.0	2.0	9.0	82.0	9.5	50.0	0.0	678719.0	1473670.0	0.0	469.1	0.1	0.026	0.000	
01/04/12	0712	On	65223.6	24.1	21764.4	23.9	4.0	64.0	30.00	0.0	83.5	2.0	9.0	72.0	10.0	42.0	0.0	678719.0	1473670.0	0.0	467.2	0.4	0.027	0.001	
01/05/12	0615	On	65246.5	22.9	21787.4	23.0	6.0	67.0	29.82	0.0	107.5	2.0	9.5	100.0	8.0	68.0	0.0	678719.0	1473670.0	0.0	464.5	0.5	0.032	0.001	
01/06/12	0951	On	65273.8	27.3	21814.7	27.3	6.0	71.5	29.71	0.0	112.0	2.0	8.5	106.0	7.0	76.0	0.0	678719.0	1473670.0	0.0	461.7	0.2	0.015	0.001	
01/09/12	0800	On	65344.0	70.2	21884.9	70.2	6.0	68.0	30.11	0.0	107.5	2.0	8.0	100.0	7.5	68.0	0.0	678719.0	1473670.0	0.0	466.3	0.4	0.079	0.001	
01/10/12	0757	On	65367.5	23.5	21908.8	23.9	6.0	69.5	29.85	0.0	112.0	2.0	9.0	102.0	8.0	68.0	0.0	678719.0	1473670.0	0.0	463.6	0.5	0.033	0.001	
01/11/12	1034	On	65394.6	27.1	21935.5	26.7	6.0	68.5	29.97	0.0	109.0	2.0	9.0	104.0	7.5	72.0	0.0	678719.0	1473670.0	0.0	465.0	0.3	0.023	0.001	
01/12/12	1006	On	65418.1	23.5	21859.0	-76.5	8.0	72.5	29.54	0.0	116.5	2.0	8.0	106.0	7.0	74.0	0.0	678719.0	1473670.0	0.0	459.9	0.4	0.026	0.001	
01/13/12	1019	On	65442.3	24.2	21983.2	124.2	6.0	69.0	29.35	0.0	110.0	2.0	9.0	98.0	9.0	54.0	0.0	678719.0	1473670.0	0.0	462.1	0.4	0.027	0.001	
01/16/12	1410	On	65518.1	105.8	22059.0	75.8	6.0	68.0	30.08	0.0	112.0	2.0	9.0	96.0	8.0	72.0	0.0	678719.0	1473670.0	0.0	466.1	0.3	0.089	0.001	
01/17/12	1048	On	65538.8	20.7	22079.7	20.7	6.0	71.5	29.60	0.0	111.0	2.0	8.0	104.0	6.5	76.0	0.0	678719.0	1473670.0	0.0	460.8	0.2	-0.005	0.001	
01/18/12	1000	On	65562.0	23.2	22102.9	23.2	4.0	58.0	29.92	0.0	98.5	2.0	8.5	92.0											

APPENDIX F

Remedial System Action List

Appendix F
November 2011- January 2012
Remedial System Action List
Fort Drum, New York

Date	Action Taken
Area 1295 - Ozone System	
12/1/2011	The ozone system was frozen and unable to be activated
12/2/2011	The ozone system was reactivated
12/29/2011	The ozone system was frozen and unable to be activated. The system will remain offline until permanent power can be supplied
Area 1595	
11/9/2011	The system was offline due to a scheduled power outage in the area
12/13/2011	The AAS/SVE systems were deactivated for the nutrient study
Area 1795, System A	
	The was no significant downtime during the November - January 2012 reporting period
Area 1795, System B	
	The was no significant downtime during the November - January 2012 reporting period
Area 1795, System C	
	The was no significant downtime during the November - January 2012 reporting period
Areas 3805 & 1995, System A	
	The system was not operation for the November - January 2012 reporting period
Areas 3805 & 1995, System B	
12/12/2011	The AAS system was deactivated for the MIP work
12/14/2011	The AAS system was reactivated upon completion of the MIP work
Areas 3805 & 1995, System C	
12/12/2011	The AAS/SVE systems were deactivated for the MIP work
12/14/2011	The AAS/SVE systems were reactivated upon completion of the MIP work
Areas 3805 & 1995, System D	
12/12/2011	The AAS system was deactivated for the MIP work
12/14/2011	The AAS system was reactivated upon completion of the MIP work
AAFES Station	
12/12/2011	The AAS/SVE systems were deactivated for the MIP work
12/14/2011	The AAS/SVE systems were reactivated upon completion of the MIP work
AAFES Station - Ozone System	
	The system was not operational during the November - January 2012 reporting period.