

Geotechnical
Environmental
Water Resources
Ecological

OU-2 Oxygen Injection Systems Completion Report

Bay Shore/Brightwaters Former MGP Site

Operable Unit No. 2
Town of Islip, New York
AOC Index No. D1-0001-98-11

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Professional Engineer's Certification

The undersigned on behalf of National Grid and GEI Consultants, Inc. certifies: that I am and at all pertinent times hereinafter mentioned was a Professional Engineer licensed or otherwise authorized under Article 145 of the Education Law of the State of New York to practice engineering; that I am the individual who had primary direct responsibility for the implementation of the subject remedial program; that all substantive requirements of the said remedial program have been complied with; the data demonstrates that remediation requirements have been or will be achieved in accordance with timeframes contained in the approved remedial program; all activities described in this report have been performed in accordance with said remedial program and any subsequent changes as agreed to and approved by the New York State Department of Environmental Conservation; any use restrictions, institutional and/or engineering controls, and/or any site management plan requirements are contained in a duly recorded environmental easement and that every municipality in which the site is located has been notified of the environmental easement; and any required financial assurance mechanisms required in accordance with subdivision 375-1.11(c) have been executed.



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Abbreviations and Acronyms

AOC	Administrative Order on Consent
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CAMP	Community Air Monitoring Plan
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
F&N	Fenley & Nicol Environmental, Inc.
Frac	Fractionalization Tank
GEI	GEI Consultants, Inc.
Hallen	The Hallen Construction Company
HDPE	High Density Polyethylene
HPC	Heterotrophic Plate Count
IRM	Interim Remedial Measure
SCR	Systems Completion Report
KeySpan	KeySpan Corporation
Lindley Brothers	Lindley Brothers Asphalt Paving Inc.
LILCO	Long Island Lighting Company
Matrix	Matrix Environmental Technologies Inc.
MGP	Manufactured Gas Plant
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operations, Maintenance, and Monitoring
ORP	Oxygen Reduction Potential
OU	Operable Unit
PAH	Polycyclic Aromatic Hydrocarbon
PID	Photoionization detector
PM-10	Respirable Particulates
Posilliso	Posillico Civil, Inc.
PVC	Polyvinyl chloride
RAP	Remedial Action Plan
RDD	Remedial Design Document
RFC	Residential Fence Corporation
RI	Remedial Investigation
ROW	Right-of-Way
SCDHS	Suffolk County Department of Health Services

Abbreviations and Acronyms (cont.)

TAL	Target Analyte List
UN	United Nations
USDOT	United States Department of Transportation
VOC	Volatile Organic Compound

MEASUREMENTS

cfu/ml	Colony forming units per milliliter
ID	Inner diameter
mg/L	Milligrams per liter
mV	Millivolts
ppm	Parts per milion
psi	Pounds per square inch
SCFH	Standard Cubic Feet per Hour
SU	Standard units
ug/L	Micrograms per liter

1. Introduction

This OU-2 Oxygen Injection Systems Completion Report (SCR) presents a summary of the installation and initial monitoring of four oxygen injection systems completed by National Grid as part of the remedial action described in the New York State Department of Environmental Conservation (NYSDEC)-approved *Remedial Design Document, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 2, Bay Shore, New York* (RDD) (GEI, 2009a). These systems are located in Operable Unit No. 2 (OU-2) of the Bay Shore/Brightwaters Former Manufactured Gas Plant (MGP) site (Site). OU-2 is located in Bay Shore, Suffolk County, New York (**Figure 1**). This SCR is submitted to the NYSDEC and the New York State Department of Health (NYSDOH) for their review and approval in accordance with Administrative Order on Consent (AOC) Index #D1-0001-98-11.

In July 2008, the NYSDEC issued a Decision Document for OU-2 requiring that National Grid install a minimum of three additional oxygen injection systems spaced as evenly as possible throughout the middle of the plume to accelerate the cleanup of the middle portion of the plume (NYSDEC, 2008). National Grid installed the three systems within the middle of the plume and one additional system along the discharge point at Lawrence Creek. The installation and start-up of these systems are described in this SCR. National Grid also plans to extend the OU-1 Union Boulevard Oxygen Injection System to the east to address impacts east of the subsurface barrier wall. The SCR for this system will be submitted under a separate cover.

A total of six oxygen injection systems that supply oxygen to seven treatment lines are currently operating within OU-2. Two of the oxygen injection systems were previously installed in 2005 and 2008. The details of these systems are summarized later in this section. The four groundwater treatment systems presented in this SCR began operation in 2009. Additional oxygen injection systems have been or are planned to be installed in OU-1, OU-2, and OU-3, but the installation reports for those systems will be submitted under separate cover.

The concurrent operation of the treatment systems will expedite the remediation of the dissolved phase contaminant plume originating from Operable Unit No. 1 (OU-1) of the former MGP site through enhanced bioremediation. These systems generate and diffuse oxygen into the groundwater through injection lines, composed of a series of injection wells, creating an aerobic environment which enhances natural bioremediation of the dissolved MGP-related contaminants. A description of the location and extent of each system is presented below and in **Figure 2**.

- 33 North Clinton Oxygen Injection System (33 North Clinton System) – This oxygen injection system is T-shaped. The 33 North Clinton System includes injection lines

- located along the north and west property lines of 33 North Clinton Avenue. The system also includes an injection line that extends along Cooper Lane (Cooper Lane Extension).
- 34 North Clinton Oxygen Injection System (34 North Clinton System) – This injection system consists of an injection line located along the northern boundary of the 34 North Clinton Avenue property.
 - 9 North Clinton Oxygen Injection System (9 North Clinton System) – This injection system is located along the northern boundary of the 9 North Clinton Avenue property with an injection line installed across the length of the parking area from North Clinton Avenue to Community Road.
 - Plume Tail Oxygen Injection System (Plume Tail System) – This oxygen injection system is located at the southwestern boundary of the 18 Garner Lane property with an injection line installed along the plume discharge area adjacent to Lawrence Creek.

These four oxygen injection treatment systems described in this SCR operate in conjunction with two previously installed oxygen injection treatment systems:

- Montauk Highway – Manatuck Lane Oxygen Injection System (Montauk/Manatuck System) – This injection system provides oxygen to injection wells within two injection lines: the Montauk Highway Oxygen Injection Line (Montauk Line) and the Manatuck Lane Oxygen Injection Line (Manatuck Line) (**Figure 2**). This system is located between the 9 North Clinton and Plume Tail Systems near the groundwater plume’s discharge point and was implemented as an Interim Remedial Measure (IRM) in 2005.
- OU-1 Union Boulevard Oxygen Injection System (OU-1 Union System) – This injection system is located immediately downgradient of the subsurface barrier wall along the southern boundary of OU-1 (**Figure 2**). This system was installed as an intermediate measure to treat groundwater exiting the perforated section of the barrier wall and has been in operation since February 2008. National Grid intends to extend this system further to the east to address groundwater impacts east of the subsurface barrier wall.

The system installations were implemented by National Grid, under guidance by NYSDEC in conjunction with the NYSDOH and Suffolk County Department of Health Services (SCDHS). Fenley & Nicol Environmental Inc. (F&N) of Deer Park, New York, provided general contracting services. Matrix Environmental Technologies, Inc. (Matrix) of Orchard Park, New York and The Hallen Construction Company (Hallen) of Maspeth, New York, provided specialty contracting services and equipment. Posillico Civil, Inc. (Posillico) of Farmingdale, New York, Lindley Brothers Asphalt Paving Inc. (Lindley Brothers) of North Port, New York, and Residential Fence Corporation (RFC) of Ridge, New York, provided paving and fencing restoration services. GEI Consultants, Inc. (GEI) of Huntington Station, New York, provided the system designs, construction quality assurance oversight, system performance monitoring, and general consulting services.

1.1 Summary of Approved Remedial Design Document

Three oxygen injection systems, the 9 North Clinton System, 34 North Clinton System, and the 33 North Clinton System, were proposed in the original RDD as part of the OU-2 remedy. A fourth system, the Plume Tail System, was proposed as an Addendum to the RDD in the *Remedial Design Document – Addendum 1 Plume Tail System Design, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 2, Bay Shore, New York*, dated July 15th, 2009 (GEI, 2009b).

An expansion of the current OU-1 Union System was also proposed in the RDD. The proposed work would extend the injection line along Union Boulevard from the intersection of North Clinton Avenue east to the intersection of 5th Avenue; however, due to a lack of property access, this has not been completed as of the date of this SCR. Once access is obtained, a pre-design investigation will be conducted in accordance with the *Investigation Work Plan for the Expo Tires (1591/1575 Union Boulevard) and Taylor Rental (84 Fifth Avenue) Properties* (Work Plan) dated August 15, 2008 (National Grid, 2008). This Work Plan may be updated and revised to reflect current property conditions and remedial objectives. Upon completion of the investigation, a system design will be submitted to the NYSDEC and the system will be installed. A separate SCR will be prepared to address this system installation in a future submittal.

1.2 Site Description and History

The Bay Shore Former MGP Site began operations in the late 1880s on the OU-1 parcel. The plant was operated by the Mutual Gas and Light Company, The Suffolk Gas and Electric Light Company, and later the Long Island Lighting Company (LILCO) in 1918. LILCO operated the plant from 1918 to approximately 1973 when most of the facilities were demolished. In 1998, KeySpan Corporation (KeySpan) acquired the former MGP property through a merger of LILCO and Brooklyn Union Gas Company. In 2007, National Grid acquired the property through the acquisition of KeySpan.

OU-2 is shown in **Figure 2** and includes a mixture of residential and light commercial properties. The OU-2 dissolved-phase groundwater plume appears to migrate south to southeast from OU-1 in the direction of local groundwater flow. The results of groundwater sampling during the Remedial Investigation (RI) and subsequent events have bounded the width of the plume to an approximately 500 feet wide path extending south from OU-1. The total length of the plume is estimated to be approximately 3,400 feet extending south-southeast from OU-1 to the discharge point at Lawrence Creek.

1.3 Geology

The Site is located near the southern shore of Long Island. Pleistocene outwash deposits underlie the surficial fill. These deposits consist of medium to coarse sands and gravels of

moderate to high permeability and are also known as the Upper Glacial Aquifer. The Pleistocene outwash deposits generally overlie a zone of low permeability material consisting of clay units within the Cretaceous Matawan Group (Magothy Formation), which includes the Magothy Aquifer. The upper portion of the Magothy Formation identified during the RI is composed of poorly to moderately permeable fine to medium sand interbedded with sand and clay lenses.

1.4 Hydrogeology

Based on depth to water measurements collected from 1999 to present, groundwater at the OU-2 area is present at depths ranging from approximately 1 to 17 feet below ground surface (bgs) under unconfined conditions where the water table is encountered in both the fill and sand units. The Upper Glacial Aquifer is moderately to highly permeable and is separate from the Magothy Aquifer. Groundwater in the Upper Glacial Aquifer discharges into southward draining streams (e.g., O-Co-nee Pond, Lawrence Lake, and Lawrence Creek) and into Great South Bay. These streams receive groundwater discharge along their entire length. As described in previous studies, groundwater flow is influenced by north-south trending local inter-stream groundwater divides. One of these divides occurs in the vicinity of the study area and separates groundwater flowing toward Watchogue Creek to the east from groundwater flowing toward Lawrence Creek to the west.

Groundwater flow in the OU-2 area is influenced by the southern flowing surface water systems located to the east and west with groundwater west of Fifth Avenue flowing toward the O-Co-Neer Pond and Lawrence Lake/Lawrence Creek drainage system in a more south-southwesterly direction. As described in the RI, there appears to be a localized anomaly in groundwater flow east of the southernmost half of Lawrence Lake. This anomaly may be due to the artificial impoundment at the southernmost end of Lawrence Lake, causing a localized mounding of groundwater. As a result of this mounding, flow is deflected south of Lawrence Lake toward Lawrence Creek. East of the southern portion of Lawrence Lake, groundwater continues to flow south until reaching the tidal area of Lawrence Creek, south of Manatuck Lane. At this point, groundwater flow becomes predominantly westerly in response to a relatively strong westerly hydraulic gradient as determined by water elevations observed at the northeastern end of Lawrence Creek.

2. Summary of Remedial Goals

The goal of the OU-2 remedy is to enhance the bioremediation of the dissolved phase contaminant impacts emanating from OU-1 through the introduction of dissolved oxygen into the hydrologic systems. The treatment systems described in this report were installed to diffuse oxygen into the groundwater to create an aerobic environment which will facilitate and promote the bioremediation of the dissolved MGP-related contaminants. These oxygen injection systems were installed to supplement the previously existing OU-1 Union System and the Montauk/Manatuck System.

As discussed in the RDD, these systems will not serve as the only measure to address groundwater contamination associated with the Bay Shore/Brightwaters former MGP site. A combined remedy including source removal, containment, and in-situ treatment is being implemented at OU-1. An in-situ ozone groundwater treatment system and subsurface barrier wall have been installed to channel and treat groundwater exiting the source area and prevent migration of dense non-aqueous phase liquid (DNAPL) from OU-1. The preliminary results from monitoring wells immediately downgradient of the ozone system have shown that the system is effective in treating groundwater prior to exiting the perforated window in OU-1. Groundwater sampling data collected downgradient of the subsurface barrier wall indicate that the wall is also proving effective as a hydraulic barrier. Groundwater concentrations at depths below the perforated window have been reduced significantly as detailed in the quarterly groundwater monitoring reports, with the most recent report titled *Quarterly Operations, Maintenance & Monitoring Report First Quarter (Q1) 2010 Bay Shore/Brightwaters Former MGP Site* (GEI, 2010b). Furthermore, the OU-1 Union Boulevard System is treating the groundwater exiting the perforated window and will be extended to the east. This treatment system is designed to mitigate contamination discharge from the source area located in OU-1 into OU-2. The reduction in the flux of MGP-related contaminants in groundwater into OU-2 following complete implementation of the OU-1 Remedial Action Plan (RAP) will, over time, reduce or eliminate the discharge to OU-2.

National Grid will implement and maintain the oxygen injection systems until the following performance based goals are met and approved by the NYSDEC:

- The remedy implemented at OU-1 controls the source of the groundwater contamination; and,
- Groundwater concentrations of MGP-related contaminants of concern meet the Ambient Groundwater Quality Standards and Guidance Values for a Class GA aquifer in OU-2; or,
- Continued operation of the systems produces diminishing returns as indicated by periodic groundwater monitoring up and downgradient of the oxygen injection treatment systems.

3. Oxygen Injection System Installation

This section provides a general overview and summary of the activities performed to install the oxygen injection systems that were proposed in the RDD. These activities include the installation of injection wells, oxygen supply line installation, installation of the oxygen generator and controls, and the installation of soil vapor points and monitoring wells.

The oxygen injection systems were installed in the following order: 9 North Clinton System, 34 North Clinton System, 33 North Clinton System, and the Plume Tail System. Major installation components such as injection well and oxygen supply line installation were performed sequentially; however, other components such as monitoring point installation and oxygen generator and injection control system installation for multiple systems were often performed concurrently depending on property access and considering a critical path method approach to scheduling.

3.1 System Summary

3.1.1 33 North Clinton System

The 33 North Clinton System is T-shaped and was installed along the northern and western property lines of 33 North Clinton Avenue with the Cooper Lane Extension installed along the northern right-of-way (ROW) of Cooper Lane. The system includes 46 injection well clusters and a total of 61 injection wells. Of the 46 injection well clusters installed, 19 clusters were installed as part of the Cooper Lane Extension. The injection wells are linked to a centralized oxygen generator and injection control system located on the 33 North Clinton Avenue property. Because of logistical and permitting challenges regarding trenching across North Clinton Avenue, the Cooper Lane Extension could not be installed at the same time as the rest of the system. The portion of the system located on the 33 N. Clinton Avenue property was installed from December 1, 2008 to March 27, 2009, and began operation on March 31, 2009. Construction for the Cooper Lane Extension began September 21, 2009; the extension was brought online on November 16, 2009. System installation drawings showing a plan, profile, and installation details of the system are included in **Appendix A** in **Figures A1, A2, A3, and A4**. A property survey and a photographic log summarizing installation events are also included in **Appendix A**.

3.1.2 34 North Clinton System

The 34 North Clinton System was installed along the northern property line of 34 North Clinton Avenue, with a short section along North Clinton Avenue. The system includes 26 injection well

clusters and a total of 40 injection wells. The injection wells are linked to a centralized oxygen generator and injection control system located on the 34 North Clinton Avenue property. Major construction operations associated with the system occurred from August 14, 2008 to September 29, 2008. The system began operation on January 20, 2009. System installation drawings showing a plan, profile, and installation details of the system are included in Appendix B in **Figures B1, B2, and B3**. Record drawings and a photographic log summarizing installation events are also included in **Appendix B**.

3.1.3 9 North Clinton System

The 9 North Clinton System was installed along the northern property line of 9 North Clinton Avenue. The system includes 21 injection well clusters and a total of 43 injection wells. The injection wells are linked to a centralized oxygen generator and injection control system located on the 9 North Clinton Avenue property. The system was installed from July 7, 2008 to August 29, 2008, and began operation on February 16, 2009. Initial operation was postponed because of limited access to the system for the required start-up sampling. Record drawings for this system are included in **Appendix C**. System installation drawings showing a plan, profile, and installation details of the system are included in **Appendix C** in **Figures C1, C2, and C3**. Record drawings and a photographic log summarizing the installation events are also included in **Appendix C**.

3.1.4 Plume Tail System

The Plume Tail System was installed along the bulkhead line of the 18 Garner Lane property where the plume discharges into Lawrence Creek. Sixteen injection wells are linked to an oxygen generator and injection control system located on the 18 Garner Lane property. Construction for the system began on May 11, 2009; the system began operation on August 17, 2009. System installation drawings showing a plan, profile, and installation details of the system are included in **Appendix D** in **Figures D1 and D2**. A photographic log summarizing the installation events is also included in **Appendix D**.

3.2 Mobilization and Site Preparation

F&N mobilized for the installation of the injection systems on July 7, 2008. The Brightwaters Yard at OU-3 was used as the main staging area for supplies, vehicles, and equipment; however, the installation locations were used for limited staging and storage. Major installation activities were performed in succession to limit the time spent on each property.

Site preparation for the system installations included establishing site controls (e.g. securing work zones, traffic controls, erosion controls). Because much of the work was linear, the site preparation was ongoing and preceded the installation as work progressed. When feasible, temporary fencing was used to secure the work zone. Open trenches were secured with

temporary chain link fencing during non-working hours. All roads remained open during the work; however, temporary lane closures were implemented during work hours as necessary. F&N and Hallen completed work in ROWs under a Town of Islip Highway Work Permit 13-496 and Town of Islip Utility Highway Work Permit 13-512, respectively. The permits are included in **Appendix E**.

Mobilization for each system (not including monitoring point installation) began on:

- October 29, 2008 for the 33 North Clinton System
- September 21, 2009 for the Cooper Lane Extension
- August 14, 2008 for the 34 North Clinton System
- July 7, 2008 for the 9 North Clinton System
- May 11, 2009 for the Plume Tail System

3.3 Monitoring Well Installation

Monitoring well clusters were installed at each system to monitor system performance. Each cluster contained two to six wells to evaluate system performance in the shallow, intermediate, and deep aquifer zones. Monitoring wells were installed by F&N, and were constructed with the following specifications:

- **Screen:** 1- or 2-inch diameter, 0.020 slot, threaded, Schedule 40 polyvinyl chloride (PVC) screen (10 foot long for shallow wells, 5 foot long for intermediate and deep). Installation of 1-inch wells was approved in advance by the NYSDEC for private property locations where a hollow stem auger could not be used.
- **Riser:** 1 or 2-inch diameter, threaded, Schedule 40 PVC riser
- **Annular Space:** #2 Silica Sand to at least 1 foot above the screen interval, 2-foot minimum thick bentonite seal, Portland cement/bentonite grout to grade.
- **Wellhead Protection:** Road box

Monitoring well locations are shown in **Figure 2** and construction details are included in **Table 1**. A soil boring was advanced at each monitoring well cluster location. Soils were sampled for volatile organic compounds (VOCs) and semivolatile organic compounds via United States Environmental Protection Agency (EPA) methods 8260B and 8270C, respectively, and Target Analyte List (TAL) metals. Analytical soil data and soil boring/well construction logs are included in **Appendices F** and **G**, respectively.

Monitoring well clusters OU2MW-48 and OU2MW-49 were originally proposed in the RDD to monitor the OU-1 Union System. However, these monitoring well clusters were installed instead to monitor the Former Summer's Lumber/King Bear Oxygen Injection System installed as part of Phase IV of the RAP on OU-1. Data associated with these monitoring wells will be included

under a separate submittal associated with the Former Summer's Lumber/King Bear Oxygen Injection System. Monitoring well clusters OU2MW-50 and OU2MW-51 will be installed to monitor the OU-1 Union System as designed in the RDD once property access to install the system is obtained. Because of property access and time constraints, soil borings associated with well clusters OU2MW-40, 41, 42, 45, 46, and 47 were not logged and soil samples were not collected.

Each monitoring well was developed after completion. Development was performed by alternately surging and pumping using a centrifugal pump until the turbidity of the development water was less than 50 nephelometric turbidity units as measured by field instrumentation.

3.3.1 33 North Clinton System Monitoring Wells

Thirteen monitoring well clusters (OU2MW-22, 23, 24, 25, 34, 35, 36, 37, 38, 39, 42, 43 and 44) were installed from October 29, 2008 to November 3, 2009 to monitor the 33 North Clinton System. Additionally, two deep wells, OU2MW-19D and 20D, were installed to complete existing well clusters.

3.3.2 34 North Clinton System Monitoring Wells

Five monitoring well clusters (OU2MW- 26, 27, 45, 46, and 47) were installed from September 10, 2008 to September 17, 2008 downgradient of the 34 North Clinton System. Additionally, one shallow well, OU2MW-21S, was installed to complete an existing well cluster.

3.3.3 9 North Clinton System Monitoring Wells

Eight monitoring well clusters (OU2MW-28, 29, 30, 31, 32, 33, 40, and 41) were installed between July 22, 2008 and August 22, 2008 to monitor the 9 North Clinton System.

3.3.4 Plume Tail System Monitoring Wells

Because the Plume Tail Injection Line is located along the bulkhead, downgradient monitoring of groundwater is not possible. Two monitoring well clusters (OU2MW-52 and 53) were installed on April 2, 2009 and April 3, 2009, upgradient of the Plume Tail System on either side of the injection line.

Additionally, four piezometers, (OU2PZ-1, OU2PZ-2, OU2PZ-3, and OU2PZ-4) were installed upgradient of the Plume Tail System to evaluate localized hydrologic effects in the vicinity of an in-ground swimming pool (**Figure 2**). The piezometers were constructed and developed using the same procedures described in subsection 3.3. The construction data for these piezometers are included in **Table 1**.

3.3.5 Temporary Monitoring Point and Monitoring Well Decommissioning

Six temporary monitoring point clusters (SP-2 through SP-8) installed by the SCDHS located on the 9 North Clinton Avenue property were decommissioned. One monitoring well cluster of three wells, GM-03, located near the 9 North Clinton Injection line was also decommissioned. The wells were decommissioned to eliminate redundancies caused by the installation of new monitoring well clusters associated with the 9 North Clinton System and to accommodate property improvements. The well decommissioning logs are included in **Appendix H**.

3.4 Soil Vapor Point Installation

Soil vapor points were installed by F&N to monitor soil vapor concentrations near the oxygen injection systems. Each soil vapor point screen was installed between 0.5 and 5 feet deep based on the maximum groundwater elevation in the area of each point. All soil vapor points were installed in conformance with the NYSDEC-approved *Permanent Soil Vapor Point Installation Final Work Plan, Operable Unit No. 2 (OU-2) and Operable Unit No. 3 (OU-3)*, dated January 31, 2007 (GEI, 2007) and comply with Section 2.7.1 of the NYSDOH *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006. Each permanent soil vapor point was constructed with the following specifications:

- **Soil Vapor Screens:** stainless steel Geoprobe[®] AT86 series Permanent Implants threaded to an expendable stainless steel anchor point, screens were baked by H2M Laboratories, Inc. to eliminate or reduce VOCs from manufacturing processes
- **Soil Vapor Tubing:** Inert Teflon[®] tubing of laboratory or food grade quality
- **Annular Space:** Glass beads or coarse silica sand to at least 6-inches above the top of the screen, 3 feet thick (or to grade) bentonite slurry seal, clean backfill to grade (if needed)
- **Vapor Point Protection:** Flush mounted, protective casing cemented in place to the top of the bentonite seal
- **Tubing Seal:** Swagelok[®] and cap

Soil vapor points OU2SG-36 and OU2SG-37 are associated with the proposed expansion of OU-1 Union System and will be installed as proposed in the RDD once property access to install the system is obtained. Soil vapor point locations are shown in **Figure 2** and construction details are included in **Table 2**.

3.4.1 33 North Clinton System Soil Vapor Points

Nine soil vapor points (OU2SG-19, 20, 21, 28, 31, 32, 33, 34 and 35) were installed near the 33 North Clinton System between January 27, 2009 and November 4, 2009. Three of the eight soil vapor points were installed near the Cooper Lane Extension.

3.4.2 34 North Clinton System Soil Vapor Points

Two soil vapor points (OU2SG-38 and 39) were installed immediately downgradient of the 34 North Clinton System on October 29, 2008.

3.4.3 9 North Clinton System Soil Vapor Points

Four soil vapor points (OU2SG-25, 26, 29, and 30) were installed downgradient of the 9 North Clinton System from August 8, 2008 to August 22, 2008. Proposed soil vapor point OU2SG-27 was not installed near monitoring well cluster OU2MW-33 because existing soil vapor points OU2SG-05, OU2SG-06, OU2SG-29, OU2SG-30, and OU2SG-40 provide a sufficient density of monitoring locations in that area.

3.4.4 Plume Tail System Soil Vapor Points

Because of the location of the Plume Tail System near Lawrence Creek, downgradient monitoring of soil vapor is not possible; therefore, soil vapor points were not specified.

3.5 Injection Well Installation

The PVC injection wells were installed using direct-push technology, via a GeoProbe® drill rig, by F&N and the well heads were set approximately 2 feet deep. Each well was 1-inch diameter and installed with a 1-foot sump and a 1-foot well screen. Each oxygen injection well was constructed with the following specifications:

- **Sump:** 1-foot deep, 1-inch diameter, threaded, Schedule 40 PVC sump
- **Screen:** 1-inch diameter, 1-foot long, 0.010 slot, threaded, Schedule 40 PVC screen
- **Riser:** 1-inch diameter, threaded, Schedule 40 PVC riser
- **Annular Space:** #00 Silica Sand to at least 1 foot above the screen interval, 2-foot minimum thick bentonite seal, Portland cement/bentonite grout to 3 feet below grade, and native material to grade.
- **Wellhead Connection:** 1-inch by ¾-inch Schedule 40 PVC tee connection at approximately 2 feet below grade, 1-inch Schedule 40 PVC riser to grade
- **Wellhead Protection:** 1-foot diameter flush mount well housing and road box

Injection well construction details and locations are included in the system installation drawings located in **Appendices A, B, C, and D**. A summary of the injection well construction for each system is located in **Table 3**.

Each injection well was developed after completion. Development was performed by alternately surging and pumping using a centrifugal pump until the development water was visually clear.

3.6 Oxygen Supply Line Installation

F&N completed the trench excavations for the installation of oxygen injection supply lines. The trenches extended in two directions from the injection control shed locations along the alignment of the injection lines. The dimensions of the trenches were approximately 2 feet wide by 30 inches deep. Whenever possible, the trenches were excavated in non-paved areas to minimize disruption. Trenching across North Clinton Avenue was required for the Cooper Lane Extension and was performed by Hallen.

The bottom 6 inches of each trench was filled with bedding sand and compacted with a vibrating plate compactor. Continuous sections of 0.75-inch inner diameter (ID) 100-pound per square inch (psi) rated High Density Polyethylene (HDPE) tubing were installed from the oxygen injection system shed to each well head. The HDPE injection tubing was covered by a 6-inch lift of bedding sand followed by 6 inches of native material. The combined 12-inch lift was then compacted with a vibrating plate compactor. A demarcation tape labeled "Caution Gas Line Buried Below" and a utility toner wire were then placed on top of the bedding sand. Toner wire access locations for each system are shown on the system installation drawings located in **Appendices A, B, C, and D**. The remainder of the trench was backfilled with native material in 12-inch lifts and compacted to grade. The HDPE injection tubing that crosses North Clinton Avenue was placed within 12 inch HDPE conduit above all underground utilities within the road.

Nuclear density testing was performed by Materials Testing Lab, Inc. of Farmingdale, New York, during the backfill of the Cooper Lane Extension trench to confirm proper compaction within North Clinton Avenue. Results of the density testing are included in **Appendix I**.

The trenching was advanced by approximately 75 to 150 feet per day and backfilled to the extent practical at the end of each work day. The length of trench left open at the end of the work day was kept at a minimum. Trench locations that remained open at the end of the work day were covered with plywood and/or secured with temporary chain-link fence.

The oxygen supply lines were attached at a tee connection at each injection well. The free end of the supply lines were bundled and coiled at the injection control shed location.

Following backfill and compaction of the trenches, each section of tubing was pressure tested for integrity. Testing was accomplished utilizing an air compressor at the system manifold and pressure gauge at the injection well head. Each line extending from the injection control shed location to the wellhead was tested at a pressure of 5 psi for 15 minutes. Testing for each oxygen supply line was installed prior to the installation of the oxygen generator and injection controls.

3.7 Oxygen Generator and Injection Control System Installation

Matrix constructed and installed all four of the oxygen generator and injection control systems. The oxygen generator and injection control systems were installed in approximately 10-foot by 12-foot prefabricated sheds. A separate electrical and telecommunications service was installed for each system. Each system provides controls for the oxygen injection pressure, flow rate, and duration at a well bank (i.e., a series of up to 8 injection wells) and is equipped with a telemetry system that alerts personnel of a system malfunction. The key system components include air dryers, air compressors, oxygen generator, oxygen delivery manifold, and programmable logic controller and telecommunications system. The manifolds for each system, except the Plume Tail System, have vacant injection ports and can accommodate limited expansions, if necessary.

The oxygen generator and injection control system installation was completed on the following dates for each system:

- 33 North Clinton System – March 27, 2009
- 34 North Clinton System – December 8, 2008
- 9 North Clinton System – August 28 and 29, 2008
- Plume Tail System – August 17, 2009

3.8 Community Air Monitoring Program Summary

In accordance with NYSDEC and NYSDOH requirements, a Community Air Monitoring Plan (CAMP) was implemented in OU-2 during each phase of the intrusive field activities. The objective of the CAMP was to provide a measure of protection for the downwind community (i.e., off-site receptors, including residences, businesses, and on-site workers not involved with site construction activities) from potential airborne contaminant releases as a direct result of intrusive construction activities. Air monitoring stations were placed upwind and downwind of each intrusive work area (i.e., boring locations for well installations, trenching locations). VOCs and respirable particulates (PM-10) were monitored at the upwind and downwind stations on a continuous basis. In addition to the fixed stations, VOCs and particulates were monitored in the work zone using hand-held equipment. There were no exceedances of the CAMP during system installation activities.

Soil impacted by the former MGP operations was not encountered during any of the system installations; therefore, implementation of odor control measures was not required during the system installations.

3.9 Restoration

3.9.1 33 North Clinton System Restoration

Site restoration was conducted by F&N, Hallen, and Lindley Brothers at the 33 North Clinton Avenue property, and in the ROW of North Clinton Avenue and Cooper Lane. Restoration activities were complete on December 1, 2009. The restoration included replacing damaged sidewalk, private driveways, asphalt, and grassed areas. North Clinton Avenue was repaved and road markings were repainted in accordance with Town of Islip requirements. A privacy fence was installed around the oxygen injection system shed by RFC.

3.9.2 34 North Clinton System Restoration

Site restoration was conducted by F&N and Posillico at the 34 North Clinton property and within the ROW along North Clinton Avenue. Restoration activities were completed on November 10, 2008. Restoration included replacing damaged sidewalk, curb, shrubs, asphalt, sprinkler lines and grassed areas. A privacy fence was installed around the oxygen injection system shed by RFC.

3.9.3 9 North Clinton System Restoration

Site restoration was conducted by F&N and Posillico at the 9 North Clinton property and within the ROW along North Clinton Avenue and Community Road. Restoration activities were completed on August 27, 2008. Restoration included replacing damaged sidewalk, asphalt and parking lot entrance gates. A privacy fence was installed around the oxygen injection system shed by RFC.

3.9.4 Plume Tail System Restoration

Site restoration was conducted by F&N at the Plume Tail System and was completed in August 2009. The restoration included replacing damaged dock boards, sprinkler lines and grassed areas.

4. Material Handling and Waste Disposal

Soil, liquid waste, and construction debris were generated from the system installations. The materials were handled and disposed of as described below.

4.1 Soil

Soil that was excavated during trenching activities was used to backfill the trench. Excess soils from trenching activities totaled approximately 100 cubic yards and were either disposed of at F&N's facility in Deer Park, New York disposed of at the 110 Sand Company located in West Babylon, New York, or used as a drying additive for the soils excavated as part of Long Island Railroad Excavation/Temporary Track Relocation IRM at the Brightwaters Yard on OU-3. No MGP-related impacted soil was encountered during the system installation excavations.

Soil cuttings that were generated from monitoring well installations were collected in 55-gallon United States Department of Transportation/United Nations (USDOT/UN)-approved drums and transported to OU-3 Brightwaters Yards for storage and waste characterization. The soil was then transported and disposed of off-site at Pure Earth, Inc., formerly Casie ProTank, of Vineland, New Jersey. Waste Manifests are provided in **Appendix I**.

4.2 Liquid Waste

Purge water generated as a result of the installation and development of oxygen injection and groundwater monitoring wells and decontamination water were containerized in 55-gallon USDOT/UN specification drums on site. Drums were shuttled daily to the Brightwaters Yard and transferred to a fractionalization (frac) tank as need for temporary storage prior to ultimate disposal. The frac tank is periodically sampled as part of long term Operations, Maintenance, and Monitoring (OM&M) of the site. The liquids are regularly transported to Bridgeport United Recycling of Bridgeport, Connecticut for treatment (as needed) and disposal.

4.3 Construction Debris

Approximately 100 cubic yards of construction debris were generated from the system installations. The debris included concrete from sidewalk and apron demolition, asphalt, recycled concrete aggregate, and vegetative waste from clearing and grubbing operations and was disposed of at either F&N's facility in Deer Park, New York, or the 110 Sand Company located in West Babylon, New York.

5. Operation, Groundwater, and Soil Vapor Monitoring

This section summarizes the system operation, groundwater, and soil vapor monitoring performed through the end of 2009 for the four oxygen injection systems that began operation in 2009.

5.1 Operation Monitoring

The initial system operation start-up procedures included initializing system components, testing the injection network, and balancing the injection flow rates. These procedures were completed on the first day of operation for each system under the oversight of GEI and the system vendor, Matrix. The NYSDEC provided oversight during the initial system start-up of the 34 North Clinton System.

For all four systems, processes were monitored twice daily for the initial two days, daily for the initial week, and weekly for the initial month of operation. During each monitoring event, system parameters relating to the system operation and equipment efficiency were recorded and adjusted as necessary to optimize system performance including:

- The oxygen injection system and all of its components were inspected to ensure the equipment is performing as designed.
- System injection parameters were measured and recorded.
- The purity of the oxygen being manufactured by the system and subsequently diffused into the groundwater was monitored.

The system OM&M logs for the initial start of operation of each system and oxygen weight totals for each system are provided in **Appendix J**. The *Quarterly Operations, Maintenance & Monitoring Report Fourth Quarter (Q4) 2009 Bay Shore/Brightwaters Former MGP Site* (GEI, 2010a) includes additional detail regarding the system operation.

5.1.1 33 North Clinton System Operation Summary

The 33 North Clinton System began operation on March 31, 2009. The Cooper Lane Extension began operation on November 16, 2009. Through 2009, the system has operated 96 percent of the time or 264 days of 275 total possible days of operation. The system experienced a temporary shutdown of five days in July because of a mechanical failure within the compressor and six days spanning November and December because of a faulty check valve at the booster pump. Injection point IP-18, which is located in the Cooper Lane Extension portion of the system, was shut down on November 20, 2009, and repair attempts have been unsuccessful to

date. The 33 North Clinton system delivers on average 260 pounds of oxygen per day. Oxygen weight calculations are provided in **Table J1** of **Appendix J**.

5.1.2 34 North Clinton System Operation Summary

The 34 North Clinton System began operation on January 20, 2009. The system has operated 97 percent of the time or 334 days of 344 total possible days of operation through 2009. The system was shutdown for a total of eight days in June because of an electrical problem within the compressor, one day during the third quarter of 2009 because of a compressor alarm, and one day in October due to a power outage. The system has been operating without injection point IP-9B. The well screen of IP-9B appears to be blocked and attempts to redevelop it have not been successful; however, this does not appear to have a measureable effect on system efficiency. The 34 North Clinton system delivers on average 258 pounds of oxygen per day. Oxygen weight calculations are provided in **Table J2** of **Appendix J**.

5.1.3 9 North Clinton System Operation Summary

The 9 North Clinton System began operation on February 16, 2009. The system has operated 98 percent of the time or 312 days of 317 total possible days of operation. The system was shutdown for one day in May and one day in June because of an electrical power failure, one day in August because of an electrical problem within the booster pump, and two days in November because of an electrical problem. The 9 North Clinton system delivers on average 222 pounds of oxygen per day. Oxygen weight calculations are provided in **Table J3** of **Appendix J**.

5.1.4 Plume Tail System Operation Summary

The Plume Tail System began operation on August 17, 2009. The system has operated 99 percent of the time or 134 days of 136 total possible days of operation. The system was shutdown for two days in October because of a compressor fault and a power outage. The Plume Tail system delivers on average 135 pounds of oxygen per day. Oxygen weight calculations are provided in **Table J4** of **Appendix J**.

5.2 Groundwater Monitoring

Groundwater quality was monitored to measure how effective each injection system is at increasing dissolved oxygen (DO) concentrations and decreasing concentrations of MGP-related contaminants in groundwater. Monitoring wells selected for performance monitoring at each system are included in **Table 4** and shown in **Figure 2**. Targeted monitoring wells were sampled more frequently and for more analytes than the other selected groundwater monitoring locations. Because of the Plume Tail System configuration, downgradient monitoring is not possible, upgradient and sidegradient wells that are not classified as targeted were monitored. The baseline groundwater samples collected prior to system start-up were analyzed for:

- VOCs via EPA Method 8260
- Polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270
- Sulfate via EPA Method 375.4
- Total Sulfide via EPA Method 375.4
- Nitrogen via EPA Method 351.2
- Nitrate/Nitrite via EPA Method 353.3
- Ammonia via EPA Method 350.1
- TAL (23) Metals
- Phosphate via EPA Method 3651
- Heterotrophic plate count (HPC)
- Dissolved Carbon Dioxide

Targeted groundwater monitoring locations were sampled monthly after system start-up beginning 1 to 2 weeks after the system start-up. These samples were analyzed for:

- VOCs via EPA Method 8260
- PAHs via EPA Method 8270
- HPC (during the first three months of operation only)

Targeted groundwater monitoring locations were sampled on a quarterly basis after system start-up and were analyzed for:

- VOCs via EPA Method 8260
- PAHs via EPA Method 8270
- Sulfate via EPA Method 375.4
- Total Sulfide via EPA Method 375.4
- Nitrogen via EPA Method 351.2
- Nitrate/Nitrite via EPA Method 353.3
- Ammonia via EPA Method 350.1
- TAL (23) Metals
- Phosphate via EPA Method 3651
- HPC
- Dissolved Carbon Dioxide

The remaining monitoring wells that were not sampled in association with an oxygen injection system start-up were sampled on a quarterly basis. These groundwater samples were analyzed for:

- VOCs via EPA Method 8260
- PAHs via EPA Method 8270

All samples were collected under low-flow conditions in accordance with sampling methods in the National Grid MGP Program documents *KeySpan Corporation Field Sampling Plan for Site*

Investigations at Manufactured Gas Plants (KeySpan, 2004a) and *KeySpan Corporation Quality Assurance/Quality Control Program Plan* (KeySpan, 2004b) found in Appendix F of the RDD. During which, several field parameters were collected including:

- DO concentrations to measure any increase in groundwater.
- pH levels to confirm that groundwater pH remains within a range (5 to 9 standard units) that is optimal for biodegradation.
- Temperature to evaluate possible seasonal impacts on microbe growth.
- Conductivity, which is a possible secondary indicator of bio-growth (dissolved iron concentrations often increase in groundwater during biodegradation, causing an increase in conductivity).
- Oxidation Reduction Potential (ORP), which also is a possible indirect indicator of bio-growth (in locations where ORP is positive, a greater potential for aerobic degradation exists). ORP is positively correlated with DO concentrations.

5.2.1 Groundwater Parameter Trends

Groundwater parameters including DO, pH, temperature, and ORP were measured and are summarized in **Table 5** for targeted wells associated with each system. Trends for DO, pH, and ORP are summarized below for the 34 North Clinton System, 33 North Clinton System, and 9 North Clinton System. Groundwater monitoring results from wells associated with the Cooper Lane Extension are not discussed due to the limited data set.

Dissolved Oxygen

Elevated DO concentrations have been observed at monitoring wells along the injection lines of the 34 North Clinton System, 33 North Clinton System, and 9 North Clinton System. Average DO concentrations for the last three months of 2009 have increased over baseline readings in 87 percent of the targeted monitoring wells according to the available data. Nearly 70 percent of the targeted monitoring wells associated with these systems contained DO concentrations over 10 milligrams per liter (mg/L), [groundwater at 12 degrees Celsius typically would have a saturation point of roughly 10 mg/L; however, the solubility of DO varies with temperature, salinity, and pressure, (Lindeburg, 2008)]. The remaining 30 percent of targeted monitoring wells that contained DO concentrations under 10 mg/L were generally deep monitoring wells or wells located upgradient of an injection line.

pH

The pH of the groundwater samples collected from the three systems ranged from 3.39 to 9.22 standard units (SU), and over 90 percent of the measured pH values were within the operating range of for microbe growth of 5 to 9 SU based on the available measurements.

Oxidation Reduction Potential

The ORP measured in groundwater samples varied from -166 to 424 millivolts (mV). ORP values during the last three months of 2009 increased over baseline values in over 82 percent of wells indicating that contaminants have a greater potential to undergo aerobic degradation. The monitoring wells where increased ORP was observed correlate with monitoring wells where increased DO was observed. Values at monitoring locations varied from -135 to 366 mV during the last three months of 2009.

5.2.2 Analytical Groundwater Sampling Trends

Analytical sampling results from the targeted monitoring wells are included in **Appendix K**. Summaries of total benzene, toluene, ethylbenzene, xylene (BTEX), total PAHs, and HPC from targeted wells are included in **Tables 6, 7, and 8**, respectively. **Figures 3, 4, and 5** show total BTEX, total PAHs, and DO concentrations as a function of time for targeted and selected wells associated with the 33 North Clinton System, 34 North Clinton System, and the 9 North Clinton System, respectively.

Figure 2 includes the 2004 RI, first quarter 2009, and fourth quarter 2009 extent of groundwater impacts, with concentration contours based on greater than 100 micrograms per liter ($\mu\text{g/L}$) of total BTEX and total PAH. This composite outline (concentration contour) denotes the horizontal extent of total BTEX and total PAH from the shallow, intermediate, and deep groundwater horizons. The fourth quarter 2009 composite outline is slightly smaller in size than the first quarter 2009 composite outline. This can be attributed to upgradient remedial actions at OU-1, including excavation and the installation of the subsurface barrier wall and the installation of the oxygen injection systems at OU-2. The *Quarterly Operations, Maintenance & Monitoring Reports* for the Site contains a detailed analysis of the groundwater impact extents and analytical groundwater data.

Total BTEX

Total BTEX concentrations in groundwater samples collected from targeted wells varied from concentrations below laboratory detectable levels to over 5,000 $\mu\text{g/L}$. Total BTEX levels at a given location are somewhat variable from month to month as shown in **Figures 3, 4, and 5**; however, since the systems began operation, overall reductions at many of the wells have been observed. Reductions in total BTEX concentrations were observed in over 90 percent of the targeted wells when comparing the 29 wells with detectable levels of BTEX in baseline samples to the average total BTEX concentration recorded in October, November, and December of 2009.

Total PAHs

Total PAH concentrations in groundwater samples collected from targeted wells varied from concentrations below laboratory detectable levels to over 7,000 µg/L. As shown in **Figures 3, 4, and 5**, total PAH concentrations at a given location typically fluctuate from month to month; however, a general decrease in total PAH concentrations since the systems began operation has occurred at many of the monitoring locations. A reduction in total PAH concentrations was observed in over 85 percent of the targeted wells when comparing the 31 wells with detectable levels of PAHs during baseline sampling to the average total PAH concentration recorded in October, November, and December of 2009.

HPC

HPC values have varied substantially; however, fluctuations in population are typical and are related to multiple factors including food supply and DO. Baseline HPC values ranged between 4 and 101,200 colony forming units per milliliter (cfu/ml) and between 1 and 162,500 cfu/ml during the performance monitoring events and have generally increased since the systems began operation. HPC values measured in November and December of 2009 increased over the baseline value in over 75 percent of 45 targeted wells.

5.2.3 Groundwater Monitoring Conclusions

Groundwater quality was measured to evaluate how effective each system is at enhancing biodegradation of MGP-related contaminants by increasing DO. The data included in this report documenting the initial operation of the systems indicate that the systems are effective at increasing DO levels and aerobic biological activity resulting in improved groundwater quality at many of the monitoring locations.

5.3 Soil Vapor Monitoring

Soil vapor quality was monitored as a precautionary measure to observe and address any potential effect the oxygen injection systems may have on soil vapor. Soil vapor data collected previously near the Montauk/Manatuck System during quarterly monitoring events and during the 2007 Hydrologic Study did not indicate that the oxygen injection system had any effect on soil vapor quality (GEI, 2007b). Selected soil vapor points in the immediate vicinity of the respective oxygen injection line were sampled to monitor each system and are listed in **Table 9**. Targeted soil vapor points located closest to the oxygen injection lines were sampled at a greater frequency than the other selected soil vapor points and are designated in **Table 9**. The system soil vapor monitoring locations for the 9 North Clinton System, 34 North Clinton System, and the 33 North Clinton system are shown in **Figure 2**. Samples were collected according to the following protocol:

- Baseline soil vapor samples were collected prior to system start-up from all permanent soil vapor monitoring points in the immediate vicinity of the respective oxygen injection line.
- During the first 2 days of system start-up, soil vapor samples were collected from targeted locations twice per day.
- During Days 3-7 of the system start-up period, soil vapor samples were collected from the targeted soil vapor monitoring point locations once per day (daily).
- During Weeks 2-4 of the system start-up period, soil vapor samples were collected from the targeted soil vapor monitoring point locations once per week (weekly).
- After the completion of the first month of system operation, the frequency of soil vapor monitoring for the targeted soil vapor monitoring point locations were collected once per month (monthly).

Each day that a soil vapor sample was collected to monitor potential effects caused by a system, a soil vapor sample was also collected at OU2SG-11. This soil vapor sample point is located west of Lawrence Creek, to provide a basis of comparison at a background location.

All soil vapor samples were analyzed for VOCs and naphthalene via Modified EPA Method TO-15 by a NYSDOH Environmental Laboratory Approval Program-certified laboratory.

Soil vapor was also screened by using a photoionization detector (PID) to collect real time data from the selected soil vapor monitoring points during the first five to seven days of initial system start-up. If elevated total VOC concentrations were observed at a monitoring location the system would be shut down temporarily. Elevated total VOC concentrations were defined as a 15 minute time weighted average of total VOC concentrations that exceeded 5 parts per million (ppm) over background total VOC concentrations. Real time soil vapor monitoring data are included in **Appendix L**. During all four system start-up periods, a system shut down was not required. However, VOC concentrations over 5 ppm were recorded on two occasions, first on January 20, 2009 during the 34 North Clinton System start-up and second on April 6, 2009 during the 33 North Clinton System start-up. However, each VOC detection over 5 ppm was not a representative measurement due to malfunctions of the PID caused by moisture and heavy rains. On February 19, 2009, during the 9 North Clinton System start-up period, oxygen injection did not take place because of system testing; therefore, no soil vapor screening took place.

5.3.1 Analytical Soil Vapor Results

Table L located in **Appendix L** contains soil vapor data associated with the system monitoring through 2009. Time series plots for the soil vapor monitoring points through 2009 are also included in **Appendix L**. The *Quarterly Operations, Maintenance & Monitoring Reports* for the Site contains the full set of soil vapor data and detailed analysis.

Soil vapor concentrations have varied widely between 2005 and 2009 at all locations monitored in OU-2, and these variations in concentrations have occurred both before the systems were installed and after the systems were in operation. These fluctuations have occurred in the areas downgradient of the oxygen injection lines, upgradient of the injection lines, and west of Lawrence Lake outside of the influence of the groundwater plume. During the performance monitoring, the concentrations detected at targeted soil vapor points were generally consistent with the baseline sampling events with these exceptions:

- Trichlorofluoromethane was detected at elevated concentrations in samples collected from monitoring point OU2SG-12 during the summer months of 2009 and the detected concentrations have since returned to near baseline levels. This point is located along the 34 North Clinton Injection Line. Trichlorofluoromethane is not a contaminant associated with the former MGP site. It is used as a refrigerant and a propellant for pesticides/insecticides. This location is downgradient from an injection line and there are no corresponding increases in the other three soil vapor points located downgradient of or adjacent to this injection line. The concentrations of 1,2,3-trimethylbenzene and Indan also increased significantly in May 2009 at OU2SG-12, but have since returned to near baseline levels.
- The concentration of butane detected in OU2SG-19 on December 28, 2009 increased from the previous sample. This location is downgradient of the 33 North Clinton Avenue oxygen injection system and upgradient of the 9 North Clinton Avenue oxygen injection system. Butane also increased at OU2SG-32 on November 17, 2009. The concentrations detected in the subsequent sample collected on December 28, 2009 decreased significantly. OU2SG-32 is also located downgradient of the 33 North Clinton Avenue system, and upgradient of the 9 North Clinton Avenue system.
- The concentration of 1,2,4,5-tetramethylbenzene detected in OU2SG-20 increased in April 2009 from the previous sample, but has since returned to baseline levels. OU2SG-20 is located along the 33 North Clinton Injection Line. This constituent was not detected in groundwater samples collected in that area during the first quarter 2009.
- The concentration of toluene increased in OU2SG-22 on July 30, 2009. The subsequent samples collected from this point decreased to previous levels. This location is downgradient of the 34 North Clinton System.
- The concentration of butane increased in OU2SG-25 on June 25, 2009 compared to the baseline level, but still remains much lower than second quarter 2008 values and has since returned to near baseline level. An increase in butane concentrations were also detected within a sample collected in OU2SG-11 on the same date. Butane is typically associated with natural gas and not MGP-related waste (NYSDOH, 2006). OU2SG-25 is located just west of the 9 North Clinton System.

- Several concentrations, including n-decane, nonane, and n-undecane, were elevated at OU2SG-26 and varied erratically from April to September 2009. OU2SG-26 is located downgradient from 9 North Clinton Avenue System. These compounds are typically associated with middle distillate fuels including number 2 fuel oil, diesel and kerosene (NYSDOH, 2006). The concentrations of these compounds have returned to levels consistent with baseline levels.
- Significant fluctuations in the concentrations of toluene, pentane, and cyclohexane occurred during the first half of 2009 in OU2SG-31, located near the 33 North Clinton System. These compounds were not detected in groundwater samples collected at the water table in the area and the concentrations have since returned to baseline levels. Toluene and cyclohexane concentrations also fluctuated in samples collected at OU2SG-11 (west of Lawrence Lake) during that time period and have since decreased to non-detect or near non-detect levels. Cyclohexane is often associated with gasoline (NYSDOH, 2006).
- Carbon disulfide concentrations increased significantly on July 13, 2009 in OU2SG-32; but have returned to near baseline levels. This location is downgradient of the 33 North Clinton System.
- At OU2SG-33, OU2SG-34, and OU2SG-35 significant increases in concentrations of m-, p- and o-xylene, ethylbenzene, n-decane, n-docane, nonane, and n-undecane were detected in samples collected from November 17 through November 20, 2009; however, these concentrations decreased to near baseline levels in samples collected in December 2009. These compounds are associated with middle distillate fuels including number 2 fuel oil, diesel and kerosene (NYSDOH, 2006). OU2SG-33, OU2SG-34, and OU2SG-35 are located near the Cooper Lane Extension. Increased concentrations of pentane and butane which are indicator compounds of natural gas were detected at OU2SG-33 in the December 18, 2009 sample (NYSDOH, 2006).
- Pentane concentrations increased within a sample collected on December 28, 2009 from previous samples at OU2SG-38. Pentane is associated with natural gas (NYSDOH, 2006). This location is downgradient of the 34 North Clinton Avenue oxygen injection system, and upgradient of the 9 North Clinton Avenue oxygen injection system.

5.3.2 Soil Vapor Monitoring Conclusions

As a precautionary measure, soil vapor was monitored to assess the effects of the oxygen injection systems may have on soil vapor quality. The data included in this report documenting the initial operation of the systems do not indicate that the systems have any measurable effect on soil vapor quality.

5.4 Plume Tail System Hydrologic Study

To assess any localized hydrologic effects of an in ground swimming pool foundation located just upgradient of the Plume Tail System, groundwater elevations were gauged in four piezometers, OU2PZ-1 through OU2PZ-04, and two wells. The piezometers and wells were gauged at high and low tide on a monthly basis for the initial three months of operation of the Plume Tail System. These groundwater elevations are included in **Table 10**. **Figures 6** and **7** depict representative groundwater surface contours at low and high tide, respectively. Additionally, groundwater samples were collected and analyzed for VOCs and PAHs from each piezometer during the first three months of operation of the Plume Tail System. These samples were collected to identify any potential changes in groundwater concentrations up and downgradient of the pool foundation as a result of localized hydrologic conditions adjacent to the pool foundation. The analytical results are included in **Appendix K**. There were no detections of VOCs or PAHs from any of the samples collected during the three sampling events. Based on the groundwater elevations and analytical data it appears that the pool foundation and operation of Plume Tail System has no measurable effect on the hydrology and shallow groundwater plume.

6. Recommendation

In accordance with the design specified in the RDD, four oxygen injection systems were installed within OU-2 to supplement two previously existing oxygen injection systems installed as an IRM at OU-2 and mitigate groundwater contamination emanating from OU-1. The expansion of the OU-1 Union Boulevard Oxygen Injection System that was proposed in the RDD could not be completed because of lack of property access.

The oxygen injection systems have been effective at increasing DO levels and aerobic biological activity and as a result have improved groundwater quality at many of the monitoring locations. To date, there has been no evidence to suggest that operation of the oxygen injection systems have had any influence on soil vapor concentrations.

In a letter sent to the NYSDEC on April 7, 2010, National Grid proposed to reduce the sampling frequency at targeted monitoring well and soil vapor point locations as described in the RDD. This reduced sampling frequency was accepted by the NYSDEC on April 28, 2010. National Grid will continue to sample the targeted and non-targeted monitoring wells and soil vapor points on a quarterly basis. In addition, groundwater parameter measurements (i.e., DO, pH, ORP, etc.) will be collected from one downgradient monitoring well cluster at the 34 North Clinton System, 33 North Clinton System and the 9 North Clinton System on a monthly basis throughout the operational period of each system. Collecting these parameters will help determine if the systems are operating efficiently and that dissolved oxygen is being distributed as intended into the aquifer. Physical and mechanical system checks for each system will continue on a bi-monthly schedule. These bi-monthly checks, in conjunction with groundwater parameter measurements and quarterly sampling of groundwater and soil vapor, will be sufficient to monitor system performance.

A comprehensive site-wide groundwater monitoring and OM&M plan that includes groundwater monitoring frequencies and procedures and system operating and monitoring procedures for both the oxygen injection systems and the ozone system at OU-1 will be submitted under separate cover.

In conclusion, National Grid recommends continued operation and maintenance of the oxygen injection systems until:

- The remedy implemented at OU-1 controls the source of groundwater contamination; or

- Groundwater concentrations of MGP-related contaminants within the aquifer at OU-2 meet the Ambient Groundwater Quality Standards and Guidance Values for a Class GA aquifer, or
- Continued operation of the oxygen injection systems produce diminishing returns as indicated by groundwater monitoring.

National Grid will seek approval prior from NYSDEC prior to implementing any changes in operational status of the systems.

7. References

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Tables

Table 1
Monitoring Well Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well ID	Associated System	Screen Interval (Feet bgs)	Well Diameter (inches)	Screen Length (feet)	Slot Size (inches)	Filter Material	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Installation Program
OU2MW-17S	OU-1 Union Boulevard	5-10	2	5	0.02	#2 Morie Sand	3.5-10	1.5-3.5	Pre-Design
OU2MW-17I	OU-1 Union Boulevard	13-23	2	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-17I2	OU-1 Union Boulevard	35-45	2	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-17D	OU-1 Union Boulevard	60-70	2	10	0.02	#2 Morie Sand	58-70	56-58	Pre-Design
OU2MW-18I	OU-1 Union Boulevard	13-23	2	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-18I2	OU-1 Union Boulevard	35-45	2	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-18D	OU-1 Union Boulevard	60-70	2	10	0.02	#2 Morie Sand	58-70	56-58	Pre-Design
OU2MW-19I	Cooper Lane Extension	13-23	2	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-19I2	Cooper Lane Extension	35-45	2	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-19D	Cooper Lane Extension	65-70	2	5	0.02	#2 Morie Sand	63-70	61-63	RDD
OU2MW-20S	Cooper Lane Extension	4-9	2	5	0.02	#2 Morie Sand	2.5-9	0.5-2.5	Pre-Design
OU2MW-20I	Cooper Lane Extension	13-23	2	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-20I2	Cooper Lane Extension	35-45	2	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-20D	Cooper Lane Extension	60-70	2	10	0.02	#2 Morie Sand	58-70	56-58	RDD
OU2MW-21S	34 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-21I	34 N Clinton	13-23	1	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-21I2	34 N Clinton	35-45	1	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-22S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-22I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-22I2	33 N Clinton	46-51	1	5	0.02	#2 Morie Sand	42.5-51	40-42	RDD
OU2MW-22D	33 N Clinton	67-72	1	5	0.02	#2 Morie Sand	64-72	62-64	RDD
OU2MW-23S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-23I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-23I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-23D	33 N Clinton	65-70	1	5	0.02	#2 Morie Sand	63-70	61-63	RDD
OU2MW-24S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-24I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-24I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-24D	33 N Clinton	62-67	1	5	0.02	#2 Morie Sand	60-67	58-60	RDD
OU2MW-25S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-25I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-25I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-25D	33 N Clinton	70-75	1	5	0.02	#2 Morie Sand	68-75	66-68	RDD
OU2MW-26S	34 N Clinton	6-11	1	5	0.02	#2 Morie Sand	4.5-11	2.5-4.5	Pre-Design
OU2MW-26I	34 N Clinton	13-23	1	10	0.02	#2 Morie Sand	11-23	9-11	Pre-Design
OU2MW-26I2	34 N Clinton	35-45	1	10	0.02	#2 Morie Sand	33-45	31-33	Pre-Design
OU2MW-26D	34 N Clinton	60-70	1	10	0.02	#2 Morie Sand	58-70	56-58	Pre-Design
OU2MW-27S	9 N Clinton/34 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-5	0-3	RDD
OU2MW-27I	9 N Clinton/34 N Clinton	20-25	1	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-27I2	9 N Clinton/34 N Clinton	40-45	1	5	0.02	#2 Morie Sand	38-45	36-38	RDD
OU2MW-27D	9 N Clinton/34 N Clinton	60-65	1	5	0.02	#2 Morie Sand	58-65	56-58	RDD
OU2MW-28S	9 N Clinton	5-15	2	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-28I	9 N Clinton	18-23	2	5	0.02	#2 Morie Sand	16-23	14-16	RDD
OU2MW-28I2	9 N Clinton	30-35	2	5	0.02	#2 Morie Sand	28-35	26-28	RDD

Table 1
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OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well ID	Associated System	Screen Interval (Feet bgs)	Well Diameter (inches)	Screen Length (feet)	Slot Size (inches)	Filter Material	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Installation Program
OU2MW-29I	9 N Clinton	18-23	2	5	0.02	#2 Morie Sand	16-23	14-16	RDD
OU2MW-29I2	9 N Clinton	30-35	2	5	0.02	#2 Morie Sand	28-35	26-28	RDD
OU2MW-29D	9 N Clinton	45-50	2	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-30S	9 N Clinton	5-15	2	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-30I	9 N Clinton	25-30	2	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-30I2	9 N Clinton	30-35	2	5	0.02	#2 Morie Sand	28-35	26-28	RDD
OU2MW-30I3	9 N Clinton	45-50	2	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-30D	9 N Clinton	50-55	2	5	0.02	#2 Morie Sand	48-55	46-48	RDD
OU2MW-30D2	9 N Clinton	60-65	2	5	0.02	#2 Morie Sand	58-65	56-58	RDD
OU2MW-31I	9 N Clinton	18-23	2	5	0.02	#2 Morie Sand	16-23	14-16	RDD
OU2MW-31I2	9 N Clinton	30-35	2	5	0.02	#2 Morie Sand	28-35	26-28	RDD
OU2MW-32S	9 N Clinton	5-15	2	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-32I	9 N Clinton	20-25	2	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-32I2	9 N Clinton	30-35	2	5	0.02	#2 Morie Sand	28-35	26-28	RDD
OU2MW-32D	9 N Clinton	40-45	2	5	0.02	#2 Morie Sand	38-45	36-38	RDD
OU2MW-33S	9 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-33I	9 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-33I2	9 N Clinton	35-40	1	5	0.02	#2 Morie Sand	33-40	31-33	RDD
OU2MW-33D	9 N Clinton	50-55	1	5	0.02	#2 Morie Sand	48-55	46-48	RDD
OU2MW-34S	34 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1.5-3	RDD
OU2MW-34I	34 N Clinton	25-30	1	5	0.02	#2 Morie Sand	22-30	20-22	RDD
OU2MW-34I2	34 N Clinton	45-50	1	5	0.02	#2 Morie Sand	42-50	40-42	RDD
OU2MW-35S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-35I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-35I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-35D	33 N Clinton	57-62	1	5	0.02	#2 Morie Sand	55-62	53-55	RDD
OU2MW-36S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-36I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-36I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-36D	33 N Clinton	61-66	1	5	0.02	#2 Morie Sand	59-66	57-59	RDD
OU2MW-37S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-37I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-37I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-37D	33 N Clinton	67-72	1	5	0.02	#2 Morie Sand	65-72	63-65	RDD
OU2MW-38S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-38I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-38I2	33 N Clinton	46-51	1	5	0.02	#2 Morie Sand	44-51	42-44	RDD
OU2MW-38D	33 N Clinton	56-61	1	5	0.02	#2 Morie Sand	54-61	52-54	RDD
OU2MW-39S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-39I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-39I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-39D	33 N Clinton	70-75	1	5	0.02	#2 Morie Sand	68-75	66-68	RDD
OU2MW-40S	9 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-40I	9 N Clinton	18-23	1	5	0.02	#2 Morie Sand	16-23	14-16	RDD

Table 1
Monitoring Well Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well ID	Associated System	Screen Interval (Feet bgs)	Well Diameter (inches)	Screen Length (feet)	Slot Size (inches)	Filter Material	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Installation Program
OU2MW-41S	9 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-41I	9 N Clinton	18-23	1	5	0.02	#2 Morie Sand	16-23	14-16	RDD
OU2MW-42S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-42I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	22.5-30	20.5-22.5	RDD
OU2MW-42I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-42D	33 N Clinton	60-65	1	5	0.02	#2 Morie Sand	57.5-65	55.5-57.5	RDD
OU2MW-43S	Cooper Lane Extension	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-43I	Cooper Lane Extension	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-43I2	Cooper Lane Extension	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-43D	Cooper Lane Extension	62-67	1	5	0.02	#2 Morie Sand	60-67	58-60	RDD
OU2MW-44S	33 N Clinton	5-15	1	10	0.02	#2 Morie Sand	3-15	1-3	RDD
OU2MW-44I	33 N Clinton	25-30	1	5	0.02	#2 Morie Sand	23-30	21-23	RDD
OU2MW-44I2	33 N Clinton	45-50	1	5	0.02	#2 Morie Sand	43-50	41-43	RDD
OU2MW-44D	33 N Clinton	64.5-69.5	1	5	0.02	#2 Morie Sand	62-69.5	61-62	RDD
OU2MW-45S	34 N Clinton	10-15	1	5	0.02	#2 Morie Sand	8-15	1-3	RDD
OU2MW-45I	34 N Clinton	20-25	1	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-45I2	34 N Clinton	40-45	1	5	0.02	#2 Morie Sand	39-45	37-39	RDD
OU2MW-45D	34 N Clinton	55-60	1	5	0.02	#2 Morie Sand	54-60	52-54	RDD
OU2MW-46S	34 N Clinton	10-15	1	5	0.02	#2 Morie Sand	8-15	6-8	RDD
OU2MW-46I	34 N Clinton	20-25	1	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-46I2	34 N Clinton	40-45	1	5	0.02	#2 Morie Sand	38-45	36-38	RDD
OU2MW-47S	34 N Clinton	5-15	1	10	0.02	#2 Morie Sand	8-15	6-8	RDD
OU2MW-47I	34 N Clinton	20-25	1	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-47I2	34 N Clinton	40-45	1	5	0.02	#2 Morie Sand	39-45	37-39	RDD
OU2MW-47D	34 N Clinton	58.5-63.5	1	5	0.02	#2 Morie Sand	57.5-63.5	55.5-57.5	RDD
OU2MW-52S	Plume Tail	3-8	2	5	0.02	#2 Morie Sand	1.5-8	0.5-1.5	RDD
OU2MW-52I	Plume Tail	20-25	2	5	0.02	#2 Morie Sand	18-25	16-18	RDD
OU2MW-52D	Plume Tail	35-40	2	5	0.02	#2 Morie Sand	33-40	30-33	RDD
OU2MW-53S	Plume Tail	3-8	2	5	0.02	#2 Morie Sand	1.5-8	0.5-1.5	RDD
OU2MW-53I	Plume Tail	20-25	2	5	0.02	#2 Morie Sand	17.5-25	14-17.5	RDD
OU2MW-53D	Plume Tail	35-40	2	5	0.02	#2 Morie Sand	33-40	29-33	RDD
OU2PZ-1*	Plume Tail	2-12	2	10	0.02	#2 Morie Sand	1-12	8-12	RDD
OU2PZ-2*	Plume Tail	2-12	2	10	0.02	#2 Morie Sand	1-12	8-12	RDD
OU2PZ-3*	Plume Tail	2-12	2	10	0.02	#2 Morie Sand	1-12	8-12	RDD
OU2PZ-4*	Plume Tail	2-12	2	10	0.02	#2 Morie Sand	1-12	8-12	RDD

Notes:

RDD - Remedial Design Document

bgs - below ground surface

* denotes a piezometer

Pre-Design indicates monitoring wells that were installed before the implementation of the work proposed in the *Remedial Design Document Bay Shore/Brightwaters Former MGP Site, OU-2, Bay Shore, NY*

RDD indicates monitoring wells that were installed as part of the work proposed in the *Remedial Design Document Bay Shore/Brightwaters Former MGP Site, OU-2, Bay Shore, NY*

Cooper Lane Extension is part of the 33 North Clinton System

Table 2
Soil Vapor Point Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Soil Vapor Point ID	Total Depth (feet bgs)	Screen Length (inches)	Filter Material	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Associated System
OU2SG-19	5.3	6	#2 Morie Sand	4.3-5.3	0-4.3	33 N Clinton
OU2SG-20	4	6	#2 Morie Sand	3-4	0-4	33 N Clinton
OU2SG-21	5	6	#2 Morie Sand	3-5	0-3	33 N Clinton
OU2SG-25	4	6	#2 Morie Sand	2-4	1.5-2	9 N Clinton
OU2SG-26	4	6	#2 Morie Sand	2-4	1.5-2	9 N Clinton
OU2SG-28	5	6	#2 Morie Sand	4-5	0-4	33 N Clinton
OU2SG-29	4	6	#2 Morie Sand	2-4	1.5-2	9 N Clinton
OU2SG-30	4	6	#2 Morie Sand	2-4	1.5-2	9 N Clinton
OU2SG-31	6	6	#2 Morie Sand	5-6	0-5	33 N Clinton
OU2SG-32	5	6	#2 Morie Sand	3-5	0-3	33 N Clinton
OU2SG-33	5	6	#2 Morie Sand	4-5	1-4	Cooper Lane Extension
OU2SG-34	4	6	#2 Morie Sand	3-4	1-3	Cooper Lane Extension
OU2SG-35	4.5	6	#2 Morie Sand	3.5-4.5	1-3.5	Cooper Lane Extension
OU2SG-38	5.0	6	#2 Morie Sand	3-5	0-3	34 N Clinton
OU2SG-39	5.0	6	#2 Morie Sand	3-5	0-3	34 N Clinton

Notes:

bgs - below ground surface

Table includes soil vapor points installed as part of the work proposed in the *Remedial Design Document Bay Shore/Brightwaters Former MGP Site, OU-2, Bay Shore, NY*

Cooper Lane Extension is part of the 33 North Clinton System

Table 3
Injection Well Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Injection Point	Associated System	Screened Interval (feet bgs)	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Total Depth (feet bgs)
IP-1A	33 N Clinton	60-61	58-62	56-58	62
IP-1B	33 N Clinton	44-45	42-46	40-42	46
IP-2A	33 N Clinton	65-66	63-67	61-63	67
IP-2B	33 N Clinton	44-45	42-46	40-42	46
IP-3A	33 N Clinton	63-64	61-65	59-61	65
IP-3B	33 N Clinton	44-45	42-46	40-42	46
IP-4A	33 N Clinton	67-68	65-69	63-65	69
IP-4B	33 N Clinton	44-45	42-46	40-42	46
IP-5A	33 N Clinton	63-64	61-65	59-61	65
IP-5B	33 N Clinton	44-45	42-46	40-42	46
IP-6A	33 N Clinton	63-64	61-65	59-61	65
IP-6B	33 N Clinton	44-45	42-46	40-42	46
IP-7A	33 N Clinton	63-64	61-65	59-61	65
IP-7B	33 N Clinton	44-45	42-46	40-42	46
IP-8A	33 N Clinton	69-70	67-71	65-67	71
IP-8B	33 N Clinton	44-45	42-46	40-42	46
IP-9A	33 N Clinton	69-70	67-71	65-67	71
IP-9B	33 N Clinton	44-45	42-46	40-42	46
IP-10	33 N Clinton	54-55	52-56	50-52	56
IP-11	33 N Clinton	44-45	42-46	40-42	46
IP-12	33 N Clinton	44-45	42-46	40-42	46
IP-13	Cooper Lane Ext	38-39	36-40	34-36	40
IP-14	Cooper Lane Ext	38-39	36-40	34-36	40
IP-15	Cooper Lane Ext	38-39	36-40	34-36	40
IP-16	Cooper Lane Ext	38-39	36-40	34-36	40
IP-17	Cooper Lane Ext	38-39	36-40	34-36	40
IP-18	Cooper Lane Ext	38-39	36-40	34-36	40
IP-19	Cooper Lane Ext	38-39	36-40	34-36	40
IP-20	Cooper Lane Ext	38-39	36-40	34-36	40
IP-21	Cooper Lane Ext	38-39	36-40	34-36	40
IP-22	Cooper Lane Ext	38-39	36-40	34-36	40
IP-23	Cooper Lane Ext	38-39	36-40	34-36	40
IP-24	Cooper Lane Ext	53-54	51-55	49-51	55
IP-25A	Cooper Lane Ext	58-59	56-60	54-56	60
IP-25B	Cooper Lane Ext	28-29	26-30	24-26	30
IP-26A	Cooper Lane Ext	58-59	56-60	54-56	60
IP-26B	Cooper Lane Ext	34-35	32-36	30-32	36
IP-27A	Cooper Lane Ext	63-64	61-65	59-61	65
IP-27B	Cooper Lane Ext	33-34	31-35	29-31	35
IP-28	Cooper Lane Ext	48-49	46-50	44-46	50
IP-29A	Cooper Lane Ext	64-65	62-66	60-62	66
IP-29B	Cooper Lane Ext	38-39	36-40	34-36	40
IP-30	Cooper Lane Ext	48-49	46-50	44-46	50
IP-31A	Cooper Lane Ext	68-69	66-70	64-66	70
IP-31B	Cooper Lane Ext	38-39	36-40	34-36	40
IP-32A	33 N Clinton	61.5-62.5	59.5-63.5	57.5-59.9	63.5
IP-32B	33 N Clinton	34-35	32-36	30-32	36
IP-33	33 N Clinton	40-41	38-42	36-38	42
IP-34	33 N Clinton	39-40	37-41	35-37	41
IP-35	33 N Clinton	39-40	37-41	35-37	41
IP-36	33 N Clinton	34-35	32-36	30-32	36
IP-37	33 N Clinton	39-40	37-41	35-37	41
IP-38	33 N Clinton	34-35	32-36	30-32	36
IP-39	33 N Clinton	24-25	22-26	20-22	26
IP-40	33 N Clinton	39-40	37-41	35-37	41
IP-41	33 N Clinton	39-40	37-41	35-37	41
IP-42	33 N Clinton	34-35	32-36	30-32	36
IP-43	33 N Clinton	29-30	27-31	25-27	31
IP-44	33 N Clinton	34-35	32-36	30-32	36
IP-45	33 N Clinton	29-30	27-31	25-27	31
IP-46	33 N Clinton	34-35	32-36	30-32	36
IP-1A	34 N Clinton	64-65	62-66	60-62	66
IP-1B	34 N Clinton	44-45	42-46	40-42	46
IP-2	34 N Clinton	29-30	27-31	25-27	31

Table 3
Injection Well Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Injection Point	Associated System	Screened Interval (feet bgs)	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Total Depth (feet bgs)
IP-3A	34 N Clinton	64-65	62-66	60-62	66
IP-3B	34 N Clinton	44-45	42-46	40-42	46
IP-4	34 N Clinton	29-30	27-31	25-27	31
IP-5A	34 N Clinton	64-65	62-66	60-62	66
IP-5B	34 N Clinton	44-45	42-46	40-42	46
IP-6	34 N Clinton	29-30	27-31	25-27	31
IP-7A	34 N Clinton	64-65	62-66	60-62	66
IP-7B	34 N Clinton	44-45	42-46	40-42	46
IP-8	34 N Clinton	29-30	27-31	25-27	31
IP-9A	34 N Clinton	64-65	62-66	60-62	66
IP-9B	34 N Clinton	44-45	42-46	40-42	46
IP-10	34 N Clinton	29-30	27-31	25-27	31
IP-11A	34 N Clinton	64-65	62-66	60-62	66
IP-11B	34 N Clinton	44-45	42-46	40-42	46
IP-12	34 N Clinton	29-30	27-31	25-27	31
IP-13A	34 N Clinton	64-65	62-66	60-62	66
IP-13B	34 N Clinton	44-45	42-46	40-42	46
IP-14	34 N Clinton	29-30	27-31	25-27	31
IP-15A	34 N Clinton	64-65	62-66	60-62	66
IP-15B	34 N Clinton	44-45	42-46	40-42	46
IP-16	34 N Clinton	29-30	27-31	25-27	31
IP-17A	34 N Clinton	64-65	62-66	60-62	66
IP-17B	34 N Clinton	44-45	42-46	40-42	46
IP-18	34 N Clinton	29-30	27-31	25-27	31
IP-19A	34 N Clinton	64-65	62-66	60-62	66
IP-19B	34 N Clinton	44-45	42-46	40-42	46
IP-20	34 N Clinton	29-30	27-31	25-27	31
IP-21A	34 N Clinton	64-65	62-66	60-62	66
IP-21B	34 N Clinton	44-45	42-46	40-42	46
IP-22	34 N Clinton	29-30	27-31	25-27	31
IP-23	34 N Clinton	64-65	62-66	60-62	66
IP-24A	34 N Clinton	54-55	52-56	50-52	56
IP-24B	34 N Clinton	29-30	27-31	25-27	31
IP-25A	34 N Clinton	44-45	42-46	40-42	46
IP-25B	34 N Clinton	29-30	27-31	25-27	31
IP-26A	34 N Clinton	44-45	42-46	40-42	46
IP-26B	34 N Clinton	29-30	27-31	25-27	31
IP-1A	9 N Clinton	29-30	27-31	25-27	31
IP-2A	9 N Clinton	31-32	29-33	27-29	33
IP-3A	9 N Clinton	24-25	22-26	20-22	26
IP-3B	9 N Clinton	34-36	32-36	30-32	36
IP-4A	9 N Clinton	24-25	22-26	20-22	26
IP-4B	9 N Clinton	38-39	36-40	34-36	40
IP-5A	9 N Clinton	24-25	22-26	20-22	26
IP-5B	9 N Clinton	41-42	39-43	37-39	43
IP-6A	9 N Clinton	29-30	27-31	25-27	31
IP-6B	9 N Clinton	51-52	49-53	47-49	53
IP-7A	9 N Clinton	29-30	27-31	25-27	31
IP-7B	9 N Clinton	63-64	61-65	59-61	65
IP-8A	9 N Clinton	44-45	42-46	40-42	46
IP-8B	9 N Clinton	70-71	68-72	66-68	72
IP-8C	9 N Clinton	24-25	26-22	20-22	26
IP-9A	9 N Clinton	44-45	42-46	40-42	46
IP-9B	9 N Clinton	70-71	68-72	66-68	72
IP-9C	9 N Clinton	24-25	26-22	20-22	26
IP-10A	9 N Clinton	44-45	42-46	40-42	46
IP-10B	9 N Clinton	70-71	68-72	66-68	72
IP-10C	9 N Clinton	24-25	26-22	20-22	26
IP-11A	9 N Clinton	44-45	42-46	40-42	46
IP-11B	9 N Clinton	70-71	68-72	66-68	72
IP-12A	9 N Clinton	24-25	22-26	20-22	26
IP-12B	9 N Clinton	64-65	62-66	60-62	66
IP-13A	9 N Clinton	24-25	22-26	20-22	26
IP-13B	9 N Clinton	57-58	55-59	53-55	59

Table 3
Injection Well Construction Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Injection Point	Associated System	Screened Interval (feet bgs)	Filter Pack (feet bgs)	Bentonite Seal (feet bgs)	Total Depth (feet bgs)
IP-14A	9 N Clinton	24-25	22-26	20-22	26
IP-14B	9 N Clinton	51-52	49-53	47-49	53
IP-15A	9 N Clinton	24-25	22-26	20-22	26
IP-15B	9 N Clinton	43-44	41-45	39-41	45
IP-16A	9 N Clinton	24-25	22-26	20-22	26
IP-16B	9 N Clinton	46-47	44-48	42-44	48
IP-17A	9 N Clinton	24-25	22-26	20-22	26
IP-17B	9 N Clinton	44-45	42-46	40-42	46
IP-18A	9 N Clinton	24-25	22-26	20-22	26
IP-18B	9 N Clinton	44-45	42-46	40-42	46
IP-19A	9 N Clinton	24-25	22-26	20-22	26
IP-19B	9 N Clinton	43-44	41-45	39-40	45
IP-20A	9 N Clinton	24-25	22-26	20-22	26
IP-20B	9 N Clinton	41-42	39-43	37-39	43
IP-21A	9 N Clinton	24-25	22-26	20-22	26
IP-21B	9 N Clinton	41-42	39-43	37-39	43
IP-1	Plume Tail	38-39	36-40	34-36	40
IP-2	Plume Tail	18-19	16-20	14-16	20
IP-3	Plume Tail	38-39	36-40	34-36	40
IP-4	Plume Tail	18-19	16-20	14-16	20
IP-5	Plume Tail	43-44	41-45	39-41	45
IP-6	Plume Tail	18-19	16-20	14-16	20
IP-7	Plume Tail	43-44	41-45	39-41	45
IP-8	Plume Tail	18-19	16-20	14-16	20
IP-9	Plume Tail	43-44	41-45	39-41	45
IP-10	Plume Tail	18-19	16-20	14-16	20
IP-11	Plume Tail	43-44	41-45	39-41	45
IP-12	Plume Tail	18-19	16-20	14-16	20
IP-13	Plume Tail	43-44	41-45	39-41	45
IP-14	Plume Tail	18-19	16-20	14-16	20
IP-15	Plume Tail	43-44	41-45	39-41	45
IP-16	Plume Tail	18-19	16-20	14-16	20

Notes:

Each well was constructed with the following materials:

- Sump: 1-foot deep, 1-inch diameter, threaded, Schedule 40 PVC sump
- Screen: 1-inch diameter, 1-foot long, 0.010 slot, threaded, Schedule 40 PVC screen
- Riser: 1-inch diameter, threaded, Schedule 40 PVC riser
- Annular Space: #00 Silica Sand to at least 1 foot above the screen interval, 2-foot minimum thick bentonite seal, Portland cement/bentonite grout to 3 feet below grade, and native
- Wellhead Connection: 1-inch by ¾-inch Schedule 40 PVC tee connection at approximately 2 feet below grade, 1" Schedule 40 PVC riser to grade
- Wellhead Protection: 1-foot diameter flush mount well housing and road box

bgs - below ground surface

Cooper Lane Extension is part of the 33 North Clinton System

Table 4
Groundwater Monitoring Locations Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well Cluster ID	Monitoring Frequency	Associated System
BBMW-16	Quarterly	NA
BBMW-24	Quarterly	34 North Clinton
OU2MW-08	Quarterly	9 North Clinton/Montauk Highway
OU2MW-17	Quarterly	OU-1 Union Blvd/33 North Clinton
OU2MW-18	Quarterly	OU-1 Union Blvd/33 North Clinton
<i>OU2MW-19</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2MW-20</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
OU2MW-21	Quarterly	34 North Clinton
OU2MW-22	Quarterly	33 North Clinton
OU2MW-23	Quarterly	33 North Clinton
OU2MW-24	Quarterly	33 North Clinton
OU2MW-25	Quarterly	33 North Clinton
OU2MW-26	Quarterly	34 North Clinton
OU2MW-27	Quarterly	34 North Clinton
<i>OU2MW-28</i>	<i>Targeted</i>	<i>9 North Clinton</i>
<i>OU2MW-29</i>	<i>Targeted</i>	<i>9 North Clinton</i>
<i>OU2MW-30</i>	<i>Targeted</i>	<i>9 North Clinton</i>
<i>OU2MW-31</i>	<i>Targeted</i>	<i>9 North Clinton</i>
<i>OU2MW-32</i>	<i>Targeted</i>	<i>9 North Clinton</i>
OU2MW-33	Quarterly	9 North Clinton
OU2MW-34	Quarterly	33 North Clinton
<i>OU2MW-35</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2MW-36</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2MW-37</i>	<i>Targeted</i>	<i>33 North Clinton</i>
OU2MW-38	Quarterly	33 North Clinton
<i>OU2MW-39</i>	<i>Targeted</i>	<i>33 North Clinton</i>
OU2MW-40	Quarterly	9 North Clinton
OU2MW-41	Quarterly	9 North Clinton
<i>OU2MW-42</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2MW-43</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2MW-44</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2MW-45</i>	<i>Targeted</i>	<i>34 North Clinton</i>
<i>OU2MW-46</i>	<i>Targeted</i>	<i>34 North Clinton</i>
<i>OU2MW-47</i>	<i>Targeted</i>	<i>34 North Clinton</i>
OU2MW-52	Quarterly	Plume Tail
OU2MW-53	Quarterly	Plume Tail
OU2PZ-1	Initial 3 mo.	Plume Tail
OU2PZ-2	Initial 3 mo.	Plume Tail
OU2PZ-3	Initial 3 mo.	Plume Tail
OU2PZ-4	Initial 3 mo.	Plume Tail

Notes:

Monitoring well clusters which are bolded and italicized are targeted monitoring well clusters.

Piezometers OU2PZ-1 through OU2PZ-4 were sampled during the initial 3 months of operation of the Plume Tail System.

Cooper Lane Extension is part of 33 North Clinton System

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
Conductivity (mS/cm)											
OU2MW-19D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-28I	Conductivity (mS/cm)	9 North Clinton	--	0.503	0.940	--	--	--	1.180	0.630	0.573
OU2MW-28I2	Conductivity (mS/cm)	9 North Clinton	--	0.201	0.427	--	--	--	0.698	0.374	0.346
OU2MW-28S	Conductivity (mS/cm)	9 North Clinton	--	0.132	0.196	--	--	--	0.631	0.370	0.412
OU2MW-29D	Conductivity (mS/cm)	9 North Clinton	--	0.199	0.294	--	--	--	0.265	0.285	0.348
OU2MW-29I	Conductivity (mS/cm)	9 North Clinton	--	0.331	0.733	--	--	--	0.643	0.665	0.702
OU2MW-29I2	Conductivity (mS/cm)	9 North Clinton	--	0.361	0.576	--	--	--	0.402	0.446	0.511
OU2MW-30D	Conductivity (mS/cm)	9 North Clinton	--	0.343	0.582	--	--	0.638	0.661	0.590	0.477
OU2MW-30D2	Conductivity (mS/cm)	9 North Clinton	--	0.642	0.482	--	--	0.560	0.607	0.451	0.388
OU2MW-30I	Conductivity (mS/cm)	9 North Clinton	--	0.905	0.522	--	--	0.511	0.535	0.596	0.718
OU2MW-30I2	Conductivity (mS/cm)	9 North Clinton	--	0.379	0.463	--	--	0.431	0.457	0.429	0.538
OU2MW-30I3	Conductivity (mS/cm)	9 North Clinton	--	0.904	0.589	--	--	0.689	0.730	0.595	0.474
OU2MW-30S	Conductivity (mS/cm)	9 North Clinton	--	0.627	0.434	--	--	0.393	0.420	0.391	0.412
OU2MW-31I	Conductivity (mS/cm)	9 North Clinton	--	0.409	0.598	--	--	--	0.530	0.594	0.441
OU2MW-31I2	Conductivity (mS/cm)	9 North Clinton	--	0.203	0.324	--	--	--	0.390	0.630	0.702
OU2MW-32D	Conductivity (mS/cm)	9 North Clinton	--	0.420	0.428	--	--	--	0.308	0.358	0.261
OU2MW-32I	Conductivity (mS/cm)	9 North Clinton	--	0.976	0.580	--	--	--	0.607	0.718	0.670
OU2MW-32I2	Conductivity (mS/cm)	9 North Clinton	--	0.999	0.623	--	--	--	0.534	0.558	0.459
OU2MW-32S	Conductivity (mS/cm)	9 North Clinton	--	0.319	0.323	--	--	--	1.370	0.455	0.605
OU2MW-35D	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.313	0.414	0.417
OU2MW-35I	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.593	0.755	0.691
OU2MW-35I2	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.263	0.318	0.252
OU2MW-35S	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.231	0.361	0.449
OU2MW-36D	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.228	0.344	0.402
OU2MW-36I	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.363	0.474	0.485
OU2MW-36I2	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.173	0.262	0.262

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
OU2MW-36S	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	1.070	0.992	0.731
OU2MW-37D	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.872	0.990	0.880
OU2MW-37I	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.419	0.507	0.464
OU2MW-37I2	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.386	0.457	0.592
OU2MW-37S	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.262	0.289	0.260
OU2MW-39D	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.133	0.138	0.018
OU2MW-39I	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.408	0.649	0.491
OU2MW-39I2	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.233	0.342	0.351
OU2MW-39S	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	0.211	0.242	0.235
OU2MW-42D	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	--	0.761	1.010
OU2MW-42I	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	--	0.717	0.747
OU2MW-42I2	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	--	0.358	0.382
OU2MW-42S	Conductivity (mS/cm)	33 North Clinton	--	--	--	--	--	--	--	0.489	0.571
OU2MW-43D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-45D	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.324	0.417	0.360	0.466	0.413	0.331
OU2MW-45I	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.462	0.493	0.423	0.509	0.436	0.378
OU2MW-45I2	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.379	0.550	0.345	0.451	0.398	0.323
OU2MW-45S	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.198	0.224	0.176	0.245	0.207	0.182
OU2MW-46I	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.553	0.627	0.565	0.745	0.750	0.574
OU2MW-46I2	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.320	0.322	0.233	0.503	0.586	0.407
OU2MW-46S	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.579	0.593	0.525	0.693	0.596	0.557
OU2MW-47D	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.341	0.503	0.386	0.434	0.376	0.276
OU2MW-47I	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.640	0.960	0.662	1.020	0.722	0.502
OU2MW-47I2	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.490	0.719	0.446	0.530	0.513	0.462
OU2MW-47S	Conductivity (mS/cm)	34 North Clinton	--	--	--	0.303	0.350	0.265	0.320	0.256	0.177

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
Dissolved Oxygen (mg/L)											
OU2MW-19D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-28I	DO (mg/L)	9 North Clinton	--	1.6	0.0	--	--	--	0.0	13.9	15.3
OU2MW-28I2	DO (mg/L)	9 North Clinton	--	1.0	0.0	--	--	--	0.0	0.0	0.0
OU2MW-28S	DO (mg/L)	9 North Clinton	--	2.9	1.1	--	--	--	13.2	22.0	20.0
OU2MW-29D	DO (mg/L)	9 North Clinton	--	2.6	0.0	--	--	--	0.0	0.0	0.0
OU2MW-29I	DO (mg/L)	9 North Clinton	--	3.1	0.0	--	--	--	0.0	0.0	0.0
OU2MW-29I2	DO (mg/L)	9 North Clinton	--	3.0	0.0	--	--	--	41.0	20.0	24.0
OU2MW-30D	DO (mg/L)	9 North Clinton	--	1.6	0.0	--	--	0.0	2.1	32.0	20.0
OU2MW-30D2	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	0.0	0.0	29.0	17.6
OU2MW-30I	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	0.0	1.0	25.0	18.1
OU2MW-30I2	DO (mg/L)	9 North Clinton	--	2.0	0.0	--	--	0.0	2.1	42.0	45.0
OU2MW-30I3	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	0.0	15.8	37.0	29.0
OU2MW-30S	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	0.0	0.0	22.0	21.0
OU2MW-31I	DO (mg/L)	9 North Clinton	--	2.5	0.0	--	--	--	7.0	9.1	10.2
OU2MW-31I2	DO (mg/L)	9 North Clinton	--	2.3	0.0	--	--	--	24.0	24.0	22.0
OU2MW-32D	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	--	0.0	0.0	6.9
OU2MW-32I	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	--	0.0	0.0	0.0
OU2MW-32I2	DO (mg/L)	9 North Clinton	--	0.0	0.0	--	--	--	0.0	0.0	5.4
OU2MW-32S	DO (mg/L)	9 North Clinton	--	0.2	0.0	--	--	--	4.2	0.0	0.0
OU2MW-35D	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-35I	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	20.0
OU2MW-35I2	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	33.0	54.0
OU2MW-35S	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	5.5	5.1	32.0
OU2MW-36D	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-36I	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
OU2MW-36I2	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-36S	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	5.0	6.0	0.0
OU2MW-37D	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-37I	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	29.0	29.0
OU2MW-37I2	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.2	0.0
OU2MW-37S	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	12.7	19.8
OU2MW-39D	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-39I	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	7.2	2.7	17.0
OU2MW-39I2	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	0.0	0.0	0.0
OU2MW-39S	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	1.8	1.9	14.7
OU2MW-42D	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	--	34.0	23.0
OU2MW-42I	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	--	9.4	10.0
OU2MW-42I2	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	--	14.5	26.0
OU2MW-42S	DO (mg/L)	33 North Clinton	--	--	--	--	--	--	--	0.0	0.0
OU2MW-43D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-45D	DO (mg/L)	34 North Clinton	--	--	--	0.0	0.0	0.0	4.6	8.8	14.9
OU2MW-45I	DO (mg/L)	34 North Clinton	--	--	--	0.0	6.6	21.0	20.0	16.2	16.2
OU2MW-45I2	DO (mg/L)	34 North Clinton	--	--	--	0.0	9.4	28.0	20.0	26.0	19.1
OU2MW-45S	DO (mg/L)	34 North Clinton	--	--	--	0.0	1.5	9.1	10.7	9.1	9.6
OU2MW-46I	DO (mg/L)	34 North Clinton	--	--	--	0.0	41.0	41.0	20.0	21.0	36.0
OU2MW-46I2	DO (mg/L)	34 North Clinton	--	--	--	0.0	13.3	37.0	20.0	24.0	38.0
OU2MW-46S	DO (mg/L)	34 North Clinton	--	--	--	0.3	27.0	31.0	20.0	22.0	31.0
OU2MW-47D	DO (mg/L)	34 North Clinton	--	--	--	0.0	11.2	30.0	20.0	23.0	16.6
OU2MW-47I	DO (mg/L)	34 North Clinton	--	--	--	0.0	0.0	24.0	20.0	26.0	26.0
OU2MW-47I2	DO (mg/L)	34 North Clinton	--	--	--	0.0	6.8	36.0	20.0	22.0	31.0
OU2MW-47S	DO (mg/L)	34 North Clinton	--	--	--	0.0	0.0	9.9	20.0	22.0	18.4

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
Oxidation Reduction Potential (mV)											
OU2MW-19D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-28I	ORP (mV)	9 North Clinton	--	-151	-167	--	--	--	-155	41	100
OU2MW-28I2	ORP (mV)	9 North Clinton	--	113	109	--	--	--	102	164	157
OU2MW-28S	ORP (mV)	9 North Clinton	--	91	84	--	--	--	119	174	134
OU2MW-29D	ORP (mV)	9 North Clinton	--	-111	-144	--	--	--	-83	-120	-132
OU2MW-29I	ORP (mV)	9 North Clinton	--	-135	-163	--	--	--	-108	-88	-94
OU2MW-29I2	ORP (mV)	9 North Clinton	--	-126	-154	--	--	--	86	140	102
OU2MW-30D	ORP (mV)	9 North Clinton	--	113	73	--	--	76	85	191	170
OU2MW-30D2	ORP (mV)	9 North Clinton	--	-101	-146	--	--	-41	-35	109	147
OU2MW-30I	ORP (mV)	9 North Clinton	--	-141	-113	--	--	-102	-74	41	251
OU2MW-30I2	ORP (mV)	9 North Clinton	--	-47	-64	--	--	-48	-21	160	320
OU2MW-30I3	ORP (mV)	9 North Clinton	--	31	-32	--	--	57	77	188	131
OU2MW-30S	ORP (mV)	9 North Clinton	--	-1	12	--	--	22	38	169	324
OU2MW-31I	ORP (mV)	9 North Clinton	--	-124	-134	--	--	--	-39	11	88
OU2MW-31I2	ORP (mV)	9 North Clinton	--	-34	-13	--	--	--	85	229	339
OU2MW-32D	ORP (mV)	9 North Clinton	--	-13	-3	--	--	--	7	-11	2
OU2MW-32I	ORP (mV)	9 North Clinton	--	-179	-130	--	--	--	-102	-135	-116
OU2MW-32I2	ORP (mV)	9 North Clinton	--	-155	-118	--	--	--	-109	-118	-112
OU2MW-32S	ORP (mV)	9 North Clinton	--	87	124	--	--	--	209	130	151
OU2MW-35D	ORP (mV)	33 North Clinton	--	--	--	--	--	--	40	53	101
OU2MW-35I	ORP (mV)	33 North Clinton	--	--	--	--	--	--	-103	-60	197
OU2MW-35I2	ORP (mV)	33 North Clinton	--	--	--	--	--	--	162	251	306
OU2MW-35S	ORP (mV)	33 North Clinton	--	--	--	--	--	--	-3	14	335
OU2MW-36D	ORP (mV)	33 North Clinton	--	--	--	--	--	--	-2	13	46
OU2MW-36I	ORP (mV)	33 North Clinton	--	--	--	--	--	--	-8	-7	23

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Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
OU2MW-36I2	ORP (mV)	33 North Clinton	--	--	--	--	--	--	199	226	204
OU2MW-36S	ORP (mV)	33 North Clinton	--	--	--	--	--	--	148	147	309
OU2MW-37D	ORP (mV)	33 North Clinton	--	--	--	--	--	--	93	122	140
OU2MW-37I	ORP (mV)	33 North Clinton	--	--	--	--	--	--	68	171	215
OU2MW-37I2	ORP (mV)	33 North Clinton	--	--	--	--	--	--	222	246	202
OU2MW-37S	ORP (mV)	33 North Clinton	--	--	--	--	--	--	96	146	199
OU2MW-39D	ORP (mV)	33 North Clinton	--	--	--	--	--	--	38	60	129
OU2MW-39I	ORP (mV)	33 North Clinton	--	--	--	--	--	--	17	-20	87
OU2MW-39I2	ORP (mV)	33 North Clinton	--	--	--	--	--	--	128	135	211
OU2MW-39S	ORP (mV)	33 North Clinton	--	--	--	--	--	--	147	184	226
OU2MW-42D	ORP (mV)	33 North Clinton	--	--	--	--	--	--	--	154	357
OU2MW-42I	ORP (mV)	33 North Clinton	--	--	--	--	--	--	--	2	64
OU2MW-42I2	ORP (mV)	33 North Clinton	--	--	--	--	--	--	--	154	255
OU2MW-42S	ORP (mV)	33 North Clinton	--	--	--	--	--	--	--	-109	-78
OU2MW-43D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-45D	ORP (mV)	34 North Clinton	--	--	--	122	110	80	123	167	202
OU2MW-45I	ORP (mV)	34 North Clinton	--	--	--	-105	-36	27	20	18	38
OU2MW-45I2	ORP (mV)	34 North Clinton	--	--	--	107	162	98	160	171	133
OU2MW-45S	ORP (mV)	34 North Clinton	--	--	--	-69	-59	46	44	66	51
OU2MW-46I	ORP (mV)	34 North Clinton	--	--	--	-78	68	127	151	167	172
OU2MW-46I2	ORP (mV)	34 North Clinton	--	--	--	85	175	164	174	217	218
OU2MW-46S	ORP (mV)	34 North Clinton	--	--	--	-45	96	126	159	189	215
OU2MW-47D	ORP (mV)	34 North Clinton	--	--	--	79	151	161	120	157	128
OU2MW-47I	ORP (mV)	34 North Clinton	--	--	--	-104	-114	15	44	91	138
OU2MW-47I2	ORP (mV)	34 North Clinton	--	--	--	75	144	134	116	178	199
OU2MW-47S	ORP (mV)	34 North Clinton	--	--	--	-62	-104	21	84	189	206

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Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
pH											
OU2MW-19D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20S	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-28I	pH	9 North Clinton	--	6.82	7.13	--	--	--	6.36	6.08	6.07
OU2MW-28I2	pH	9 North Clinton	--	6.09	6.42	--	--	--	5.67	6.05	5.89
OU2MW-28S	pH	9 North Clinton	--	6.02	6.48	--	--	--	5.70	6.09	6.14
OU2MW-29D	pH	9 North Clinton	--	6.61	6.85	--	--	--	6.31	6.60	6.49
OU2MW-29I	pH	9 North Clinton	--	6.85	7.11	--	--	--	6.49	6.49	6.32
OU2MW-29I2	pH	9 North Clinton	--	6.82	7.24	--	--	--	6.10	6.38	6.25
OU2MW-30D	pH	9 North Clinton	--	6.00	6.34	--	--	5.64	5.59	6.10	6.04
OU2MW-30D2	pH	9 North Clinton	--	6.21	6.49	--	--	5.76	5.67	5.82	5.66
OU2MW-30I	pH	9 North Clinton	--	6.63	7.03	--	--	6.27	6.16	6.30	6.05
OU2MW-30I2	pH	9 North Clinton	--	6.53	6.95	--	--	6.15	6.04	6.37	5.80
OU2MW-30I3	pH	9 North Clinton	--	6.09	6.50	--	--	5.72	5.72	6.14	6.10
OU2MW-30S	pH	9 North Clinton	--	6.24	6.58	--	--	6.01	5.90	6.39	5.97
OU2MW-31I	pH	9 North Clinton	--	6.70	9.22	--	--	--	6.16	6.06	6.17
OU2MW-31I2	pH	9 North Clinton	--	6.22	7.90	--	--	--	5.69	5.73	5.39
OU2MW-32D	pH	9 North Clinton	--	6.26	7.52	--	--	--	6.13	6.26	6.29
OU2MW-32I	pH	9 North Clinton	--	6.62	9.14	--	--	--	6.38	6.79	7.17
OU2MW-32I2	pH	9 North Clinton	--	6.58	9.14	--	--	--	6.69	6.82	6.84
OU2MW-32S	pH	9 North Clinton	--	6.05	5.75	--	--	--	5.83	6.28	6.05
OU2MW-35D	pH	33 North Clinton	--	--	--	--	--	--	5.69	5.57	6.01
OU2MW-35I	pH	33 North Clinton	--	--	--	--	--	--	6.71	6.55	6.54
OU2MW-35I2	pH	33 North Clinton	--	--	--	--	--	--	5.34	5.46	5.02
OU2MW-35S	pH	33 North Clinton	--	--	--	--	--	--	6.56	6.29	5.81
OU2MW-36D	pH	33 North Clinton	--	--	--	--	--	--	5.92	5.78	5.82
OU2MW-36I	pH	33 North Clinton	--	--	--	--	--	--	6.42	6.37	6.37

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Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
OU2MW-36I2	pH	33 North Clinton	--	--	--	--	--	--	5.28	5.14	5.19
OU2MW-36S	pH	33 North Clinton	--	--	--	--	--	--	6.43	6.40	6.15
OU2MW-37D	pH	33 North Clinton	--	--	--	--	--	--	5.08	5.07	5.29
OU2MW-37I	pH	33 North Clinton	--	--	--	--	--	--	6.31	6.23	6.25
OU2MW-37I2	pH	33 North Clinton	--	--	--	--	--	--	5.56	5.52	5.91
OU2MW-37S	pH	33 North Clinton	--	--	--	--	--	--	6.58	6.42	6.42
OU2MW-39D	pH	33 North Clinton	--	--	--	--	--	--	6.97	5.38	4.95
OU2MW-39I	pH	33 North Clinton	--	--	--	--	--	--	7.49	6.39	5.71
OU2MW-39I2	pH	33 North Clinton	--	--	--	--	--	--	5.60	4.95	5.81
OU2MW-39S	pH	33 North Clinton	--	--	--	--	--	--	5.67	6.03	5.57
OU2MW-42D	pH	33 North Clinton	--	--	--	--	--	--	--	5.14	4.24
OU2MW-42I	pH	33 North Clinton	--	--	--	--	--	--	--	6.46	6.70
OU2MW-42I2	pH	33 North Clinton	--	--	--	--	--	--	--	6.02	5.93
OU2MW-42S	pH	33 North Clinton	--	--	--	--	--	--	--	6.53	6.57
OU2MW-43D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43S	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44S	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-45D	pH	34 North Clinton	--	--	--	6.03	5.90	6.06	5.54	6.14	5.84
OU2MW-45I	pH	34 North Clinton	--	--	--	6.56	6.05	6.06	5.73	6.33	6.37
OU2MW-45I2	pH	34 North Clinton	--	--	--	6.18	6.37	6.17	5.79	5.28	6.23
OU2MW-45S	pH	34 North Clinton	--	--	--	6.22	6.02	5.91	5.54	6.00	6.17
OU2MW-46I	pH	34 North Clinton	--	--	--	6.26	6.17	6.34	6.00	6.52	6.30
OU2MW-46I2	pH	34 North Clinton	--	--	--	6.00	5.75	5.77	5.50	5.90	6.24
OU2MW-46S	pH	34 North Clinton	--	--	--	6.42	6.10	6.11	5.61	6.13	5.71
OU2MW-47D	pH	34 North Clinton	--	--	--	5.55	5.42	5.35	5.19	5.63	5.80
OU2MW-47I	pH	34 North Clinton	--	--	--	6.55	6.25	6.18	5.84	6.38	6.41
OU2MW-47I2	pH	34 North Clinton	--	--	--	6.28	6.16	6.16	5.91	6.26	6.09
OU2MW-47S	pH	34 North Clinton	--	--	--	6.33	6.09	5.78	5.44	5.90	5.55

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
Temperature (degrees Celsius)											
OU2MW-19D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-20S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-28I	Temperature (° C)	9 North Clinton	--	16.4	12.5	--	--	--	11.8	12.4	14.9
OU2MW-28I2	Temperature (° C)	9 North Clinton	--	16.0	12.4	--	--	--	11.7	12.6	12.8
OU2MW-28S	Temperature (° C)	9 North Clinton	--	20.0	11.9	--	--	--	9.3	12.2	15.6
OU2MW-29D	Temperature (° C)	9 North Clinton	--	16.9	12.0	--	--	--	11.4	12.0	14.9
OU2MW-29I	Temperature (° C)	9 North Clinton	--	17.5	13.9	--	--	--	11.6	11.8	14.0
OU2MW-29I2	Temperature (° C)	9 North Clinton	--	16.8	13.1	--	--	--	11.8	11.4	15.9
OU2MW-30D	Temperature (° C)	9 North Clinton	--	16.3	13.3	--	--	12.3	11.9	12.5	15.2
OU2MW-30D2	Temperature (° C)	9 North Clinton	--	17.5	13.3	--	--	11.9	11.9	12.8	15.1
OU2MW-30I	Temperature (° C)	9 North Clinton	--	16.6	13.8	--	--	12.6	12.1	13.4	15.3
OU2MW-30I2	Temperature (° C)	9 North Clinton	--	16.6	13.8	--	--	13.1	11.7	12.6	16.4
OU2MW-30I3	Temperature (° C)	9 North Clinton	--	17.3	13.1	--	--	12.4	12.1	12.2	15.8
OU2MW-30S	Temperature (° C)	9 North Clinton	--	20.6	13.5	--	--	10.9	10.3	11.6	14.9
OU2MW-31I	Temperature (° C)	9 North Clinton	--	18.7	14.4	--	--	--	11.7	13.1	15.3
OU2MW-31I2	Temperature (° C)	9 North Clinton	--	16.2	14.4	--	--	--	13.3	12.9	16.2
OU2MW-32D	Temperature (° C)	9 North Clinton	--	16.4	12.1	--	--	--	8.7	12.1	16.2
OU2MW-32I	Temperature (° C)	9 North Clinton	--	18.5	12.7	--	--	--	7.4	12.6	14.3
OU2MW-32I2	Temperature (° C)	9 North Clinton	--	17.0	11.8	--	--	--	10.0	12.2	14.8
OU2MW-32S	Temperature (° C)	9 North Clinton	--	20.7	10.7	--	--	--	7.8	12.0	15.5
OU2MW-35D	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.1	15.6	13.2
OU2MW-35I	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.4	12.7	13.5
OU2MW-35I2	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.2	14.2	13.3
OU2MW-35S	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.7	10.6	12.3
OU2MW-36D	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	11.2	11.2	13.6
OU2MW-36I	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	10.5	12.2	13.0

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Aug-08	Sep-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09
OU2MW-36I2	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	10.9	11.9	13.5
OU2MW-36S	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	7.3	10.9	12.1
OU2MW-37D	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.4	11.9	13.6
OU2MW-37I	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	13.0	11.1	14.0
OU2MW-37I2	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	13.2	12.4	13.7
OU2MW-37S	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	11.1	12.0	12.6
OU2MW-39D	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	11.9	11.2	13.5
OU2MW-39I	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.9	11.6	12.7
OU2MW-39I2	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	12.0	12.0	13.5
OU2MW-39S	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	9.2	8.9	12.9
OU2MW-42D	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	--	11.3	13.1
OU2MW-42I	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	--	12.2	12.9
OU2MW-42I2	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	--	11.9	13.1
OU2MW-42S	Temperature (° C)	33 North Clinton	--	--	--	--	--	--	--	9.4	11.2
OU2MW-43D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-43S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-44S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	--
OU2MW-45D	Temperature (° C)	34 North Clinton	--	--	--	13.2	12.2	12.0	12.3	14.0	13.6
OU2MW-45I	Temperature (° C)	34 North Clinton	--	--	--	13.1	10.5	11.8	11.8	13.4	12.6
OU2MW-45I2	Temperature (° C)	34 North Clinton	--	--	--	13.3	10.6	12.0	12.1	14.0	13.4
OU2MW-45S	Temperature (° C)	34 North Clinton	--	--	--	12.4	9.0	9.3	9.3	11.9	12.1
OU2MW-46I	Temperature (° C)	34 North Clinton	--	--	--	13.4	12.2	11.9	12.2	12.9	13.4
OU2MW-46I2	Temperature (° C)	34 North Clinton	--	--	--	12.7	10.8	9.1	12.6	13.1	13.8
OU2MW-46S	Temperature (° C)	34 North Clinton	--	--	--	11.3	9.4	9.0	9.6	12.1	13.8
OU2MW-47D	Temperature (° C)	34 North Clinton	--	--	--	13.4	12.6	12.0	12.3	14.4	14.0
OU2MW-47I	Temperature (° C)	34 North Clinton	--	--	--	13.8	13.0	12.5	12.3	12.9	13.0
OU2MW-47I2	Temperature (° C)	34 North Clinton	--	--	--	13.1	12.1	12.6	12.9	14.0	14.1
OU2MW-47S	Temperature (° C)	34 North Clinton	--	--	--	12.6	10.8	10.5	10.9	12.2	14.4

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
Conductivity (mS/cm)														
OU2MW-19D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	1.270	--	--	1.35	--	1.270	--
OU2MW-19I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	0.708	--	--	0.554	--	0.708	--
OU2MW-19I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	0.561	--	0.545	--	0.561	--
OU2MW-20D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	0.123	--	--	0.11	0.085	0.123	--
OU2MW-20I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	0.397	--	--	--	0.316	0.397	--
OU2MW-20I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	0.366	--	--	--	0.357	0.366	--
OU2MW-20S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	0.172	--	--	0.414	0.267	0.172	--
OU2MW-28I	Conductivity (mS/cm)	9 North Clinton	0.543	0.489	0.429	0.483	0.435	0.273	0.483	0.435	0.273	0.528	0.722	0.412
OU2MW-28I2	Conductivity (mS/cm)	9 North Clinton	0.289	0.258	0.282	0.356	0.324	0.195	0.356	0.324	0.195	0.385	0.314	0.301
OU2MW-28S	Conductivity (mS/cm)	9 North Clinton	0.367	0.327	0.317	0.317	0.250	0.148	0.317	0.25	0.148	0.322	0.164	0.240
OU2MW-29D	Conductivity (mS/cm)	9 North Clinton	0.432	0.427	0.365	0.42	0.402	0.273	0.42	0.402	0.273	0.397	0.247	0.357
OU2MW-29I	Conductivity (mS/cm)	9 North Clinton	0.730	0.635	0.58	0.645	0.734	0.488	0.645	0.734	0.488	0.803	0.532	0.675
OU2MW-29I2	Conductivity (mS/cm)	9 North Clinton	0.463	0.569	0.606	0.723	0.649	0.425	0.723	0.649	0.425	0.526	0.469	0.533
OU2MW-30D	Conductivity (mS/cm)	9 North Clinton	0.748	0.536	0.609	0.681	0.743	0.656	0.681	0.743	0.656	0.541	0.463	0.647
OU2MW-30D2	Conductivity (mS/cm)	9 North Clinton	0.525	0.433	0.444	0.432	0.429	0.394	0.432	0.429	0.394	0.317	0.562	0.380
OU2MW-30I	Conductivity (mS/cm)	9 North Clinton	0.530	0.633	0.702	0.709	0.619	0.691	0.709	0.619	0.691	0.442	0.714	0.584
OU2MW-30I2	Conductivity (mS/cm)	9 North Clinton	0.565	0.595	0.71	0.661	0.599	0.569	0.661	0.599	0.569	0.471	0.421	0.546
OU2MW-30I3	Conductivity (mS/cm)	9 North Clinton	0.616	0.507	0.587	0.609	0.640	0.498	0.609	0.64	0.498	0.558	0.747	0.565
OU2MW-30S	Conductivity (mS/cm)	9 North Clinton	0.278	0.297	0.322	0.359	0.306	0.281	0.359	0.306	0.281	0.325	0.531	0.304
OU2MW-31I	Conductivity (mS/cm)	9 North Clinton	0.615	0.73	0.596	0.496	0.748	0.690	0.496	0.748	0.69	0.503	0.504	0.647
OU2MW-31I2	Conductivity (mS/cm)	9 North Clinton	0.461	0.483	0.599	0.574	0.590	0.551	0.574	0.59	0.551	0.463	0.264	0.535
OU2MW-32D	Conductivity (mS/cm)	9 North Clinton	0.254	0.377	0.384	0.443	0.463	0.403	0.443	0.463	0.403	0.328	0.424	0.398
OU2MW-32I	Conductivity (mS/cm)	9 North Clinton	0.717	0.679	0.569	0.649	0.629	1.050	0.649	0.629	1.05	0.711	0.778	0.797
OU2MW-32I2	Conductivity (mS/cm)	9 North Clinton	0.593	0.583	0.592	0.491	0.441	0.999	0.491	0.441	0.999	0.575	0.811	0.672
OU2MW-32S	Conductivity (mS/cm)	9 North Clinton	0.519	0.809	0.555	0.808	0.562	0.513	0.808	0.562	0.513	0.404	0.321	0.493
OU2MW-35D	Conductivity (mS/cm)	33 North Clinton	0.320	0.403	0.522	0.554	0.436	0.356	0.554	0.436	0.356	0.297	0.313	0.363
OU2MW-35I	Conductivity (mS/cm)	33 North Clinton	0.793	0.608	0.442	0.753	0.745	0.911	0.753	0.745	0.911	0.753	0.593	0.803
OU2MW-35I2	Conductivity (mS/cm)	33 North Clinton	0.295	0.307	0.291	0.225	0.154	0.146	0.225	0.154	0.146	0.126	0.263	0.142
OU2MW-35S	Conductivity (mS/cm)	33 North Clinton	0.465	0.265	0.25	0.397	0.441	0.626	0.397	0.441	0.626	0.559	0.231	0.542
OU2MW-36D	Conductivity (mS/cm)	33 North Clinton	0.417	0.42	4.54	0.585	0.460	0.445	0.585	0.46	0.445	0.435	0.228	0.447
OU2MW-36I	Conductivity (mS/cm)	33 North Clinton	0.538	0.521	0.689	0.716	0.528	0.541	0.716	0.528	0.541	0.529	0.363	0.533
OU2MW-36I2	Conductivity (mS/cm)	33 North Clinton	0.239	0.185	0.191	0.195	0.258	0.347	0.195	0.258	0.347	0.299	0.173	0.301

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
OU2MW-36S	Conductivity (mS/cm)	33 North Clinton	0.968	0.801	0.593	0.4	0.297	0.313	0.4	0.297	0.313	0.266	1.070	0.292
OU2MW-37D	Conductivity (mS/cm)	33 North Clinton	0.921	0.807	0.92	0.94	0.695	0.787	0.94	0.695	0.787	0.589	0.872	0.690
OU2MW-37I	Conductivity (mS/cm)	33 North Clinton	0.423	0.429	0.55	0.693	0.606	0.581	0.693	0.606	0.581	0.616	0.419	0.601
OU2MW-37I2	Conductivity (mS/cm)	33 North Clinton	0.631	0.483	0.455	0.532	0.399	0.442	0.532	0.399	0.442	0.308	0.386	0.383
OU2MW-37S	Conductivity (mS/cm)	33 North Clinton	0.237	0.309	0.328	0.407	0.335	0.363	0.407	0.335	0.363	0.408	0.262	0.369
OU2MW-39D	Conductivity (mS/cm)	33 North Clinton	0.429	0.6	0.615	0.827	0.770	0.723	0.827	0.77	0.723	0.545	0.133	0.679
OU2MW-39I	Conductivity (mS/cm)	33 North Clinton	0.691	0.612	0.692	1.11	0.899	0.616	1.11	0.899	0.616	0.578	0.408	0.698
OU2MW-39I2	Conductivity (mS/cm)	33 North Clinton	0.327	0.383	0.573	0.487	0.427	0.419	0.487	0.427	0.419	0.353	0.233	0.400
OU2MW-39S	Conductivity (mS/cm)	33 North Clinton	0.382	0.387	0.342	0.315	0.339	0.311	0.315	0.339	0.311	0.316	0.211	0.322
OU2MW-42D	Conductivity (mS/cm)	33 North Clinton	1.310	1.43	1.66	1.71	1.590	1.740	1.71	1.59	1.74	1.5	--	1.610
OU2MW-42I	Conductivity (mS/cm)	33 North Clinton	0.601	0.541	1.05	1.17	0.828	0.692	1.17	0.828	0.692	0.749	--	0.756
OU2MW-42I2	Conductivity (mS/cm)	33 North Clinton	0.390	0.314	0.331	0.327	0.264	0.357	0.327	0.264	0.357	0.374	--	0.332
OU2MW-42S	Conductivity (mS/cm)	33 North Clinton	0.525	0.448	0.409	0.823	0.715	0.835	0.823	0.715	0.835	0.667	--	0.739
OU2MW-43D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	1.88	1.92	1.880	--
OU2MW-43I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.433	0.677	0.433	--
OU2MW-43I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.518	0.507	0.518	--
OU2MW-43S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.684	0.68	0.684	--
OU2MW-44D	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.343	0.37	0.343	--
OU2MW-44I	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.222	0.255	0.222	--
OU2MW-44I2	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.391	0.348	0.391	--
OU2MW-44S	Conductivity (mS/cm)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.229	0.220	0.229	--
OU2MW-45D	Conductivity (mS/cm)	34 North Clinton	0.386	0.318	0.202	0.193	0.196	0.161	0.193	0.196	0.161	0.163	0.324	0.173
OU2MW-45I	Conductivity (mS/cm)	34 North Clinton	0.442	0.39	0.31	0.403	0.389	0.501	0.403	0.389	0.501	0.365	0.462	0.418
OU2MW-45I2	Conductivity (mS/cm)	34 North Clinton	0.272	0.435	0.376	0.43	0.407	0.408	0.43	0.407	0.408	0.401	0.379	0.405
OU2MW-45S	Conductivity (mS/cm)	34 North Clinton	0.160	0.198	0.166	0.326	0.333	0.390	0.326	0.333	0.39	0.275	0.198	0.333
OU2MW-46I	Conductivity (mS/cm)	34 North Clinton	0.788	0.852	0.665	0.789	0.767	0.910	0.789	0.767	0.91	0.872	0.553	0.850
OU2MW-46I2	Conductivity (mS/cm)	34 North Clinton	0.321	0.477	0.377	0.366	0.340	0.347	0.366	0.34	0.347	0.379	0.320	0.355
OU2MW-46S	Conductivity (mS/cm)	34 North Clinton	0.628	1.4	1.21	0.754	0.572	0.553	0.754	0.572	0.553	0.921	0.579	0.682
OU2MW-47D	Conductivity (mS/cm)	34 North Clinton	0.279	0.46	0.434	0.621	0.575	0.514	0.621	0.575	0.514	0.42	0.341	0.503
OU2MW-47I	Conductivity (mS/cm)	34 North Clinton	0.674	0.565	0.359	0.39	0.366	0.455	0.39	0.366	0.455	0.291	0.640	0.371
OU2MW-47I2	Conductivity (mS/cm)	34 North Clinton	0.399	0.575	0.547	0.622	0.534	0.494	0.622	0.534	0.494	0.499	0.490	0.509
OU2MW-47S	Conductivity (mS/cm)	34 North Clinton	0.263	0.268	0.222	0.303	0.327	0.439	0.303	0.327	0.439	0.39	0.303	0.385

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Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
Dissolved Oxygen (mg/L)														
OU2MW-19D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	0.0	--	0.0	--
OU2MW-19I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	0.0	--	0.0	--
OU2MW-19I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	0.0	--	0.1	--	0.0	--
OU2MW-20D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	0.0	0.0	0.0	--
OU2MW-20I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	--	0.0	0.0	--
OU2MW-20I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	--	0.0	0.0	--
OU2MW-20S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	0.0	--	--	0.0	0.0	0.0	--
OU2MW-28I	DO (mg/L)	9 North Clinton	27.0	20.0	30.0	37.0	8.4	0.6	37.0	8.4	0.6	30.0	0.8	13.0
OU2MW-28I2	DO (mg/L)	9 North Clinton	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	8.0	0.5	2.7
OU2MW-28S	DO (mg/L)	9 North Clinton	24.0	20.0	26.0	32.0	20.0	18.3	32.0	20.0	18.3	31.0	2.0	23.1
OU2MW-29D	DO (mg/L)	9 North Clinton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.3	0.5
OU2MW-29I	DO (mg/L)	9 North Clinton	0.0	0.0	0.0	10.7	0.0	1.3	10.7	0.0	1.3	13.0	1.6	4.8
OU2MW-29I2	DO (mg/L)	9 North Clinton	32.0	20.0	39.0	46.0	28.0	24.0	46.0	28.0	24.0	20.0	1.5	24.0
OU2MW-30D	DO (mg/L)	9 North Clinton	27.0	19.5	29.0	40.0	39.0	28.0	40.0	39.0	28.0	35.0	0.8	34.0
OU2MW-30D2	DO (mg/L)	9 North Clinton	9.1	3.0	0.0	2.5	14.6	18.0	2.5	14.6	18.0	55.0	0.0	29.2
OU2MW-30I	DO (mg/L)	9 North Clinton	10.6	16.2	27.0	34.0	27.0	8.9	34.0	27.0	8.9	51.0	0.0	29.0
OU2MW-30I2	DO (mg/L)	9 North Clinton	23.0	19.8	25.0	29.0	42.0	34.0	29.0	42.0	34.0	44.0	1.0	40.0
OU2MW-30I3	DO (mg/L)	9 North Clinton	20.0	20.0	25.0	35.0	36.0	18.7	35.0	36.0	18.7	0.8	0.0	18.5
OU2MW-30S	DO (mg/L)	9 North Clinton	13.7	11.6	23.0	28.0	26.0	25.0	28.0	26.0	25.0	0.9	0.0	17.3
OU2MW-31I	DO (mg/L)	9 North Clinton	17.6	26.0	36.0	22.0	0.0	10.4	22.0	0.0	10.4	30.0	1.3	13.5
OU2MW-31I2	DO (mg/L)	9 North Clinton	27.0	23.0	35.0	28.0	2.2	26.0	28.0	2.2	26.0	38.0	1.2	22.1
OU2MW-32D	DO (mg/L)	9 North Clinton	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
OU2MW-32I	DO (mg/L)	9 North Clinton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3
OU2MW-32I2	DO (mg/L)	9 North Clinton	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3
OU2MW-32S	DO (mg/L)	9 North Clinton	1.6	0.4	3.2	6.4	0.0	2.4	6.4	0.0	2.4	3.7	0.1	2.0
OU2MW-35D	DO (mg/L)	33 North Clinton	9.2	20.0	30.0	33.0	31.0	44.0	33.0	31.0	44.0	46.0	0.0	40.3
OU2MW-35I	DO (mg/L)	33 North Clinton	27.0	42.0	33.0	36.0	20.0	34.0	36.0	20.0	34.0	50.0	0.0	34.7
OU2MW-35I2	DO (mg/L)	33 North Clinton	37.0	20.0	42.0	39.0	26.0	32.0	39.0	26.0	32.0	55.0	0.0	37.7
OU2MW-35S	DO (mg/L)	33 North Clinton	20.0	34.0	20.0	37.0	30.0	37.0	37.0	30.0	37.0	45.0	5.5	37.3
OU2MW-36D	DO (mg/L)	33 North Clinton	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OU2MW-36I	DO (mg/L)	33 North Clinton	0.0	15.4	25.0	25.0	21.0	41.0	25.0	21.0	41.0	32.0	0.0	31.3

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
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Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
OU2MW-36I2	DO (mg/L)	33 North Clinton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OU2MW-36S	DO (mg/L)	33 North Clinton	0.0	5.7	6.3	9.8	9.1	19.0	9.8	9.1	19.0	19.3	5.0	15.8
OU2MW-37D	DO (mg/L)	33 North Clinton	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OU2MW-37I	DO (mg/L)	33 North Clinton	20.0	39.0	19.1	40.0	29.0	42.0	40.0	29.0	42.0	19.2	0.0	30.1
OU2MW-37I2	DO (mg/L)	33 North Clinton	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OU2MW-37S	DO (mg/L)	33 North Clinton	17.1	29.0	15.6	31.0	25.0	25.0	31.0	25.0	25.0	24.0	0.0	24.7
OU2MW-39D	DO (mg/L)	33 North Clinton	7.6	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1
OU2MW-39I	DO (mg/L)	33 North Clinton	20.0	38.0	32.0	19.0	28.0	49.0	19.0	28.0	49.0	32.0	7.2	36.3
OU2MW-39I2	DO (mg/L)	33 North Clinton	7.6	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.4
OU2MW-39S	DO (mg/L)	33 North Clinton	22.0	19.6	24.0	21.0	28.0	31.0	21.0	28.0	31.0	18.2	1.8	25.7
OU2MW-42D	DO (mg/L)	33 North Clinton	25.0	30.0	20.0	19.1	28.0	17.0	19.1	28.0	17.0	24.0	--	23.0
OU2MW-42I	DO (mg/L)	33 North Clinton	17.6	25.0	3.4	22.0	29.0	19.1	22.0	29.0	19.1	13.4	--	20.5
OU2MW-42I2	DO (mg/L)	33 North Clinton	32.0	37.0	23.0	35.0	26.0	26.0	35.0	26.0	26.0	9.6	--	20.5
OU2MW-42S	DO (mg/L)	33 North Clinton	0.0	4.0	7.0	1.8	4.2	3.0	1.8	4.2	3.0	2.2	--	3.2
OU2MW-43D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	1.6	0.0	--
OU2MW-43I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	1.3	0.0	--
OU2MW-43I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.3	0.0	--
OU2MW-43S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.0	0.0	--
OU2MW-44D	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.0	0.0	--
OU2MW-44I	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.0	0.0	--
OU2MW-44I2	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.0	0.0	--
OU2MW-44S	DO (mg/L)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0.0	0.4	0.0	--
OU2MW-45D	DO (mg/L)	34 North Clinton	19.3	19.3	19.2	20.0	22.0	36.0	20.0	22.0	36.0	27.0	0.0	28.3
OU2MW-45I	DO (mg/L)	34 North Clinton	16.9	20.0	23.0	25.0	26.0	25.0	25.0	26.0	25.0	21.0	0.0	24.0
OU2MW-45I2	DO (mg/L)	34 North Clinton	26.0	25.0	26.0	22.0	29.0	35.0	22.0	29.0	35.0	19.4	0.0	27.8
OU2MW-45S	DO (mg/L)	34 North Clinton	5.2	5.9	6.6	3.8	3.4	1.4	3.8	3.4	1.4	2.3	0.0	2.4
OU2MW-46I	DO (mg/L)	34 North Clinton	35.0	38.0	44.0	39.0	33.0	40.0	39.0	33.0	40.0	43.0	0.0	38.7
OU2MW-46I2	DO (mg/L)	34 North Clinton	42.0	38.0	40.0	41.0	31.0	48.0	41.0	31.0	48.0	27.0	0.0	35.3
OU2MW-46S	DO (mg/L)	34 North Clinton	20.0	28.0	28.0	34.0	27.0	31.0	34.0	27.0	31.0	25.0	0.3	27.7
OU2MW-47D	DO (mg/L)	34 North Clinton	32.0	27.0	18.6	26.0	23.0	25.0	26.0	23.0	25.0	16.0	0.0	21.3
OU2MW-47I	DO (mg/L)	34 North Clinton	31.0	36.0	38.0	43.0	28.0	38.0	43.0	28.0	38.0	40.0	0.0	35.3
OU2MW-47I2	DO (mg/L)	34 North Clinton	32.0	40.0	40.0	46.0	25.0	43.0	46.0	25.0	43.0	35.0	0.0	34.3
OU2MW-47S	DO (mg/L)	34 North Clinton	36.0	28.0	32.0	33.0	31.0	33.0	33.0	31.0	33.0	33.0	0.0	32.3

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
Oxidation Reduction Potential (mV)														
OU2MW-19D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	-122	--	--	-113	--	-122	--
OU2MW-19I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	-71	--	--	-132	--	-71	--
OU2MW-19I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	70	--	38	--	70	--
OU2MW-20D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	138	--	--	-32	240	138	--
OU2MW-20I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	-115	--	--	--	-87	-115	--
OU2MW-20I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	127	--	--	--	113	127	--
OU2MW-20S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	89	--	--	77	83	89	--
OU2MW-28I	ORP (mV)	9 North Clinton	204	292	334	160	53	-48	160	53	-48	397	-159	134
OU2MW-28I2	ORP (mV)	9 North Clinton	272	151	245	123	-64	-24	123	-64	-24	186	111	33
OU2MW-28S	ORP (mV)	9 North Clinton	212	311	340	152	84	67	152	84	67	204	88	118
OU2MW-29D	ORP (mV)	9 North Clinton	-12	-105	-122	-138	-166	-152	-138	-166	-152	-87	-128	-135
OU2MW-29I	ORP (mV)	9 North Clinton	-55	-69	-18	-14	-115	-66	-14	-115	-66	66	-149	-38
OU2MW-29I2	ORP (mV)	9 North Clinton	185	371	269	202	95	91	202	95	91	397	-140	194
OU2MW-30D	ORP (mV)	9 North Clinton	348	202	352	210	6	47	210	6	47	209	93	87
OU2MW-30D2	ORP (mV)	9 North Clinton	204	65	82	61	-39	-5	61	-39	-5	379	-124	112
OU2MW-30I	ORP (mV)	9 North Clinton	102	105	214	107	223	-18	107	223	-18	365	-127	190
OU2MW-30I2	ORP (mV)	9 North Clinton	202	197	276	123	222	187	123	222	187	379	-56	263
OU2MW-30I3	ORP (mV)	9 North Clinton	243	161	297	132	6	174	132	6	174	169	-1	116
OU2MW-30S	ORP (mV)	9 North Clinton	224	177	355	196	237	213	196	237	213	198	6	216
OU2MW-31I	ORP (mV)	9 North Clinton	236	213	354	141	-63	-9	141	-63	-9	375	-129	101
OU2MW-31I2	ORP (mV)	9 North Clinton	215	240	363	185	69	147	185	69	147	176	-24	131
OU2MW-32D	ORP (mV)	9 North Clinton	12	46	41	144	-9	-32	144	-9	-32	348	-8	102
OU2MW-32I	ORP (mV)	9 North Clinton	-132	-143	-156	-124	-116	-143	-124	-116	-143	-116	-155	-125
OU2MW-32I2	ORP (mV)	9 North Clinton	-118	-116	-124	-138	-100	-119	-138	-100	-119	-88	-137	-102
OU2MW-32S	ORP (mV)	9 North Clinton	125	90	72	129	-45	-11	129	-45	-11	365	106	103
OU2MW-35D	ORP (mV)	33 North Clinton	94	285	285	244	221	281	244	221	281	415	40	306
OU2MW-35I	ORP (mV)	33 North Clinton	306	328	124	203	229	38	203	229	38	352	-103	206
OU2MW-35I2	ORP (mV)	33 North Clinton	245	332	368	275	228	270	275	228	270	410	162	303
OU2MW-35S	ORP (mV)	33 North Clinton	360	331	137	221	237	58	221	237	58	359	-3	218
OU2MW-36D	ORP (mV)	33 North Clinton	39	18	-25	31	-12	-5	31	-12	-5	11	-2	-2
OU2MW-36I	ORP (mV)	33 North Clinton	77	123	280	218	216	271	218	216	271	424	-8	304

Table 5
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OU-2 Oxygen Injection Systems Completion Report
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Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
OU2MW-36I2	ORP (mV)	33 North Clinton	170	154	216	265	208	4	265	208	4	125	199	112
OU2MW-36S	ORP (mV)	33 North Clinton	206	185	260	150	172	25	150	172	25	414	148	204
OU2MW-37D	ORP (mV)	33 North Clinton	122	112	-57	120	102	17	120	102	17	97	93	72
OU2MW-37I	ORP (mV)	33 North Clinton	191	256	290	207	158	307	207	158	307	404	68	290
OU2MW-37I2	ORP (mV)	33 North Clinton	260	296	64	233	215	-10	233	215	-10	185	222	130
OU2MW-37S	ORP (mV)	33 North Clinton	145	312	272	198	192	302	198	192	302	387	96	294
OU2MW-39D	ORP (mV)	33 North Clinton	78	87	-58	120	93	-15	120	93	-15	113	38	64
OU2MW-39I	ORP (mV)	33 North Clinton	325	306	245	198	209	248	198	209	248	405	17	287
OU2MW-39I2	ORP (mV)	33 North Clinton	170	168	106	208	211	78	208	211	78	288	128	192
OU2MW-39S	ORP (mV)	33 North Clinton	331	282	258	198	197	278	198	197	278	420	147	298
OU2MW-42D	ORP (mV)	33 North Clinton	386	327	311	372	370	365	372	370	365	362	--	366
OU2MW-42I	ORP (mV)	33 North Clinton	101	122	-21	86	86	88	86	86	88	57	--	77
OU2MW-42I2	ORP (mV)	33 North Clinton	299	287	302	219	215	98	219	215	98	355	--	223
OU2MW-42S	ORP (mV)	33 North Clinton	-72	-61	-42	-39	-60	-70	-39	-60	-70	-65	--	-65
OU2MW-43D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	-111	47	-111	--
OU2MW-43I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	-45	26	-45	--
OU2MW-43I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	0	-7	0	--
OU2MW-43S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	-135	-100	-135	--
OU2MW-44D	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	49	112	49	--
OU2MW-44I	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	90	71	90	--
OU2MW-44I2	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	37	25	37	--
OU2MW-44S	ORP (mV)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	-65	37	-65	--
OU2MW-45D	ORP (mV)	34 North Clinton	268	252	152	165	86	285	165	86	285	345	122	239
OU2MW-45I	ORP (mV)	34 North Clinton	76	71	63	43	64	31	43	64	31	200	-105	98
OU2MW-45I2	ORP (mV)	34 North Clinton	99	180	200	95	95	260	95	95	260	334	107	230
OU2MW-45S	ORP (mV)	34 North Clinton	99	120	36	-19	-35	-63	-19	-35	-63	1	-69	-32
OU2MW-46I	ORP (mV)	34 North Clinton	345	286	286	159	266	45	159	266	45	216	-78	176
OU2MW-46I2	ORP (mV)	34 North Clinton	284	305	310	219	279	350	219	279	350	257	85	295
OU2MW-46S	ORP (mV)	34 North Clinton	253	300	275	197	271	350	197	271	350	228	-45	283
OU2MW-47D	ORP (mV)	34 North Clinton	156	240	167	100	144	167	100	144	167	263	79	191
OU2MW-47I	ORP (mV)	34 North Clinton	330	288	210	171	229	56	171	229	56	356	-104	214
OU2MW-47I2	ORP (mV)	34 North Clinton	225	324	306	184	232	305	184	232	305	360	75	299
OU2MW-47S	ORP (mV)	34 North Clinton	340	343	314	206	244	58	206	244	58	256	-62	186

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Groundwater Physical Parameter Summary for Targeted Wells
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Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
pH														
OU2MW-19D	pH	Cooper Lane Ext.	--	--	--	--	--	5.87	--	--	8.30	--	5.87	--
OU2MW-19I	pH	Cooper Lane Ext.	--	--	--	--	--	6.48	--	--	8.53	--	6.48	--
OU2MW-19I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	5.84	--	6.04	--	5.84	--
OU2MW-20D	pH	Cooper Lane Ext.	--	--	--	--	--	5.77	--	--	7.05	5.40	5.77	--
OU2MW-20I	pH	Cooper Lane Ext.	--	--	--	--	--	6.62	--	--	--	7.15	6.62	--
OU2MW-20I2	pH	Cooper Lane Ext.	--	--	--	--	--	6.19	--	--	--	5.62	6.19	--
OU2MW-20S	pH	Cooper Lane Ext.	--	--	--	--	--	6.25	--	--	6.09	6.06	6.25	--
OU2MW-28I	pH	9 North Clinton	5.90	5.79	5.81	5.69	6.21	6.54	5.69	6.21	6.54	5.03	6.98	5.93
OU2MW-28I2	pH	9 North Clinton	5.04	6.12	5.64	6.11	6.14	6.31	6.11	6.14	6.31	5.43	6.26	5.96
OU2MW-28S	pH	9 North Clinton	5.81	6.28	6.00	5.79	6.38	6.60	5.79	6.38	6.60	6.28	6.25	6.42
OU2MW-29D	pH	9 North Clinton	6.95	7.87	6.62	6.38	7.12	7.32	6.38	7.12	7.32	6.64	6.73	7.03
OU2MW-29I	pH	9 North Clinton	6.41	7.16	6.04	7.45	6.76	6.88	7.45	6.76	6.88	6.30	6.98	6.65
OU2MW-29I2	pH	9 North Clinton	5.85	5.25	6.06	5.80	6.39	6.56	5.80	6.39	6.56	5.12	7.03	6.02
OU2MW-30D	pH	9 North Clinton	4.72	5.93	5.63	5.57	7.44	6.14	5.57	7.44	6.14	4.80	6.17	6.13
OU2MW-30D2	pH	9 North Clinton	4.85	5.86	5.88	5.52	7.94	6.31	5.52	7.94	6.31	4.53	6.35	6.26
OU2MW-30I	pH	9 North Clinton	5.95	6.12	5.97	6.28	5.88	6.40	6.28	5.88	6.40	4.54	6.83	5.61
OU2MW-30I2	pH	9 North Clinton	5.78	6.21	5.90	6.00	5.98	5.91	6.00	5.98	5.91	4.93	6.74	5.61
OU2MW-30I3	pH	9 North Clinton	5.01	6.00	5.70	5.56	7.38	5.66	5.56	7.38	5.66	5.09	6.30	6.04
OU2MW-30S	pH	9 North Clinton	5.68	6.34	5.99	5.77	5.81	5.81	5.77	5.81	5.81	4.97	6.41	5.53
OU2MW-31I	pH	9 North Clinton	5.01	6.10	6.08	6.30	8.21	6.37	6.30	8.21	6.37	5.39	7.96	6.66
OU2MW-31I2	pH	9 North Clinton	5.30	5.98	5.84	6.05	5.99	5.92	6.05	5.99	5.92	6.50	7.06	6.14
OU2MW-32D	pH	9 North Clinton	5.93	5.96	6.00	5.69	7.54	6.47	5.69	7.54	6.47	4.75	6.89	6.25
OU2MW-32I	pH	9 North Clinton	7.36	5.80	6.86	6.47	6.30	6.28	6.47	6.30	6.28	6.81	7.88	6.46
OU2MW-32I2	pH	9 North Clinton	7.17	7.17	6.63	6.47	6.24	6.20	6.47	6.24	6.20	6.64	7.86	6.36
OU2MW-32S	pH	9 North Clinton	6.01	4.57	6.20	6.05	8.02	6.36	6.05	8.02	6.36	4.57	5.90	6.32
OU2MW-35D	pH	33 North Clinton	5.67	4.99	4.71	4.60	4.69	4.99	4.60	4.69	4.99	4.68	5.69	4.79
OU2MW-35I	pH	33 North Clinton	6.02	6.18	6.30	6.10	6.26	6.50	6.10	6.26	6.50	6.41	6.71	6.39
OU2MW-35I2	pH	33 North Clinton	4.88	5.44	5.16	5.04	5.42	5.64	5.04	5.42	5.64	5.20	5.34	5.42
OU2MW-35S	pH	33 North Clinton	5.51	5.95	5.87	5.71	5.98	6.10	5.71	5.98	6.10	6.13	6.56	6.07
OU2MW-36D	pH	33 North Clinton	6.10	5.77	5.63	5.58	5.65	5.76	5.58	5.65	5.76	5.80	5.92	5.74
OU2MW-36I	pH	33 North Clinton	6.43	6.14	5.90	5.57	5.94	5.96	5.57	5.94	5.96	5.94	6.42	5.95

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
OU2MW-36I2	pH	33 North Clinton	5.61	5.19	5.04	4.48	5.08	6.67	4.48	5.08	6.67	5.08	5.28	5.61
OU2MW-36S	pH	33 North Clinton	6.20	6.18	6.13	6.00	6.10	6.45	6.00	6.10	6.45	6.07	6.43	6.21
OU2MW-37D	pH	33 North Clinton	4.56	5.18	5.01	4.80	5.00	6.42	4.80	5.00	6.42	4.95	5.08	5.46
OU2MW-37I	pH	33 North Clinton	5.50	6.11	5.96	6.03	6.22	6.29	6.03	6.22	6.29	6.29	6.31	6.27
OU2MW-37I2	pH	33 North Clinton	4.99	5.45	5.51	5.31	5.55	6.69	5.31	5.55	6.69	5.51	5.56	5.92
OU2MW-37S	pH	33 North Clinton	6.24	6.10	6.07	5.91	5.95	6.08	5.91	5.95	6.08	6.09	6.58	6.04
OU2MW-39D	pH	33 North Clinton	5.11	5.30	5.14	4.97	4.79	6.58	4.97	4.79	6.58	5.16	6.97	5.51
OU2MW-39I	pH	33 North Clinton	5.74	5.94	5.83	5.89	5.74	6.16	5.89	5.74	6.16	6.04	7.49	5.98
OU2MW-39I2	pH	33 North Clinton	4.76	4.92	4.78	4.57	4.43	6.08	4.57	4.43	6.08	4.48	5.60	5.00
OU2MW-39S	pH	33 North Clinton	5.68	6.09	5.85	5.79	5.55	5.99	5.79	5.55	5.99	5.80	5.67	5.78
OU2MW-42D	pH	33 North Clinton	4.09	3.95	3.97	3.33	3.52	3.47	3.33	3.52	3.47	3.17	--	3.39
OU2MW-42I	pH	33 North Clinton	6.49	6.39	6.39	6.23	6.40	6.45	6.23	6.40	6.45	6.45	--	6.43
OU2MW-42I2	pH	33 North Clinton	5.48	5.63	5.21	5.37	5.64	5.99	5.37	5.64	5.99	5.64	--	5.76
OU2MW-42S	pH	33 North Clinton	6.79	6.40	6.15	6.08	6.22	6.89	6.08	6.22	6.89	6.35	--	6.49
OU2MW-43D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	10.86	6.60	10.86	--
OU2MW-43I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	9.79	6.91	9.79	--
OU2MW-43I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	8.91	7.09	8.91	--
OU2MW-43S	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	11.35	7.41	11.35	--
OU2MW-44D	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	8.24	5.40	8.24	--
OU2MW-44I	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	7.54	6.10	7.54	--
OU2MW-44I2	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	8.63	6.56	8.63	--
OU2MW-44S	pH	Cooper Lane Ext.	--	--	--	--	--	--	--	--	10.40	6.45	10.40	--
OU2MW-45D	pH	34 North Clinton	4.13	4.66	6.05	6.01	6.13	5.73	6.01	6.13	5.73	6.07	6.03	5.98
OU2MW-45I	pH	34 North Clinton	4.54	5.81	6.10	5.90	5.86	6.20	5.90	5.86	6.20	5.90	6.56	5.99
OU2MW-45I2	pH	34 North Clinton	6.17	5.05	6.06	5.80	5.96	5.74	5.80	5.96	5.74	6.16	6.18	5.95
OU2MW-45S	pH	34 North Clinton	5.74	5.58	6.26	5.97	5.97	6.78	5.97	5.97	6.78	6.08	6.22	6.28
OU2MW-46I	pH	34 North Clinton	5.95	4.98	6.31	6.52	6.35	6.16	6.52	6.35	6.16	6.58	6.26	6.36
OU2MW-46I2	pH	34 North Clinton	5.81	4.51	5.68	5.74	5.62	5.48	5.74	5.62	5.48	4.83	6.00	5.31
OU2MW-46S	pH	34 North Clinton	6.12	4.55	5.91	5.99	5.91	5.69	5.99	5.91	5.69	6.16	6.42	5.92
OU2MW-47D	pH	34 North Clinton	5.67	4.65	5.52	5.45	5.47	5.19	5.45	5.47	5.19	6.01	5.55	5.56
OU2MW-47I	pH	34 North Clinton	5.98	4.70	6.02	6.32	6.24	6.03	6.32	6.24	6.03	5.81	6.55	6.03
OU2MW-47I2	pH	34 North Clinton	6.13	4.86	5.97	6.13	6.15	5.85	6.13	6.15	5.85	6.25	6.28	6.08
OU2MW-47S	pH	34 North Clinton	5.40	4.34	5.28	5.89	5.86	6.05	5.89	5.86	6.05	5.86	6.33	5.92

Table 5
Groundwater Physical Parameter Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
Temperature (degrees Celsius)														
OU2MW-19D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	15.7	--	--	14.8	--	15.7	--
OU2MW-19I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	19.2	--	--	16.2	--	19.2	--
OU2MW-19I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	15.6	--	15.0	--	15.6	--
OU2MW-20D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	15.2	--	--	14.5	12.6	15.2	--
OU2MW-20I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	16.2	--	--	--	14.5	16.2	--
OU2MW-20I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	15.9	--	--	--	13.3	15.9	--
OU2MW-20S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	18.7	--	--	14.4	12.7	18.7	--
OU2MW-28I	Temperature (° C)	9 North Clinton	14.9	16.7	18.3	17.4	15.0	14.6	17.4	15.0	14.6	8.1	14.4	12.6
OU2MW-28I2	Temperature (° C)	9 North Clinton	15.9	17.2	17.2	15.6	14.5	14.3	15.6	14.5	14.3	12.0	14.2	13.6
OU2MW-28S	Temperature (° C)	9 North Clinton	20.2	19.6	22.2	20.5	17.6	16.4	20.5	17.6	16.4	10.1	15.9	14.7
OU2MW-29D	Temperature (° C)	9 North Clinton	15.6	15.9	18.5	16.7	14.8	14.5	16.7	14.8	14.5	11.4	14.4	13.6
OU2MW-29I	Temperature (° C)	9 North Clinton	16.7	16.5	18.7	17.8	16.3	15.8	17.8	16.3	15.8	13.7	15.7	15.3
OU2MW-29I2	Temperature (° C)	9 North Clinton	15.2	16.2	18.3	16.5	15.0	14.9	16.5	15.0	14.9	11.7	15.0	13.9
OU2MW-30D	Temperature (° C)	9 North Clinton	16.0	16.0	17.5	15.6	15.4	15.4	15.6	15.4	15.4	13.5	14.8	14.8
OU2MW-30D2	Temperature (° C)	9 North Clinton	14.5	15.5	18.7	15.2	15.2	15.1	15.2	15.2	15.1	13.6	15.4	14.6
OU2MW-30I	Temperature (° C)	9 North Clinton	15.5	16.5	18.3	15.6	15.0	15.5	15.6	15.0	15.5	13.0	15.2	14.5
OU2MW-30I2	Temperature (° C)	9 North Clinton	15.4	15.9	18.3	16.1	15.0	15.0	16.1	15.0	15.0	12.6	15.2	14.2
OU2MW-30I3	Temperature (° C)	9 North Clinton	14.4	16.9	17.3	18.1	15.7	14.9	18.1	15.7	14.9	14.5	15.2	15.0
OU2MW-30S	Temperature (° C)	9 North Clinton	16.2	18.2	19.9	19.6	17.3	16.9	19.6	17.3	16.9	14.5	17.1	16.2
OU2MW-31I	Temperature (° C)	9 North Clinton	15.4	15.9	18.1	18.3	16.7	16.8	18.3	16.7	16.8	12.0	16.6	15.2
OU2MW-31I2	Temperature (° C)	9 North Clinton	15.7	15.7	17.1	18.0	14.9	14.9	18.0	14.9	14.9	14.2	15.3	14.7
OU2MW-32D	Temperature (° C)	9 North Clinton	15.7	18.9	19.8	16.3	14.6	14.4	16.3	14.6	14.4	5.7	14.3	11.6
OU2MW-32I	Temperature (° C)	9 North Clinton	17.1	18.9	22.1	17.2	15.4	15.2	17.2	15.4	15.2	10.0	15.6	13.6
OU2MW-32I2	Temperature (° C)	9 North Clinton	15.7	19.1	20.5	16.6	13.7	13.9	16.6	13.7	13.9	10.0	14.4	12.5
OU2MW-32S	Temperature (° C)	9 North Clinton	18.2	20.3	23.7	19.4	16.9	16.2	19.4	16.9	16.2	2.4	15.7	11.8
OU2MW-35D	Temperature (° C)	33 North Clinton	13.3	13.9	15.2	14.6	14.2	13.7	14.6	14.2	13.7	12.8	12.1	13.6
OU2MW-35I	Temperature (° C)	33 North Clinton	13.6	13.9	15.7	14.6	14.1	15.8	14.6	14.1	15.8	13.9	12.4	14.6
OU2MW-35I2	Temperature (° C)	33 North Clinton	13.9	14.2	15.1	14.7	14.4	14.0	14.7	14.4	14.0	13.0	12.2	13.8
OU2MW-35S	Temperature (° C)	33 North Clinton	14.0	15.0	17.1	17.3	16.7	16.1	17.3	16.7	16.1	13.9	12.7	15.6
OU2MW-36D	Temperature (° C)	33 North Clinton	14.1	15.7	22.4	18.0	15.1	13.6	18.0	15.1	13.6	11.4	11.2	13.4
OU2MW-36I	Temperature (° C)	33 North Clinton	14.6	16.6	22.8	16.3	13.1	14.9	16.3	13.1	14.9	7.4	10.5	11.8

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Monitoring Well	Parameter	Oxygen Injection System	Jun-09	Jul-09	Aug-09	Sep-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Baseline	Oct, Nov, Dec Avg
OU2MW-36I2	Temperature (° C)	33 North Clinton	14.4	15.8	22.9	17.5	13.9	14.2	17.5	13.9	14.2	11.3	10.9	13.2
OU2MW-36S	Temperature (° C)	33 North Clinton	15.8	17.2	22.3	19.5	14.3	16.6	19.5	14.3	16.6	11.5	7.3	14.1
OU2MW-37D	Temperature (° C)	33 North Clinton	14.1	14.7	15.6	15.3	14.2	14.5	15.3	14.2	14.5	12.9	12.4	13.9
OU2MW-37I	Temperature (° C)	33 North Clinton	14.6	15.0	16.3	14.8	15.1	14.7	14.8	15.1	14.7	14.2	13.0	14.7
OU2MW-37I2	Temperature (° C)	33 North Clinton	14.5	14.5	15.8	14.6	14.3	14.9	14.6	14.3	14.9	13.3	13.2	14.1
OU2MW-37S	Temperature (° C)	33 North Clinton	14.9	15.3	17.4	16.9	16.2	15.5	16.9	16.2	15.5	14.4	11.1	15.4
OU2MW-39D	Temperature (° C)	33 North Clinton	13.2	14.8	16.2	14.6	13.4	13.9	14.6	13.4	13.9	11.8	11.9	13.0
OU2MW-39I	Temperature (° C)	33 North Clinton	13.1	14.3	16.1	15.2	14.3	14.3	15.2	14.3	14.3	14.1	12.9	14.2
OU2MW-39I2	Temperature (° C)	33 North Clinton	13.9	14.9	15.5	14.8	13.5	14.3	14.8	13.5	14.3	11.2	12.0	13.0
OU2MW-39S	Temperature (° C)	33 North Clinton	13.7	15.8	18.5	17.3	15.8	14.8	17.3	15.8	14.8	13.5	9.2	14.7
OU2MW-42D	Temperature (° C)	33 North Clinton	13.4	14.6	15.0	14.8	14.2	13.5	14.8	14.2	13.5	13.1	--	13.6
OU2MW-42I	Temperature (° C)	33 North Clinton	13.7	14.4	15.7	14.9	14.7	15.0	14.9	14.7	15.0	14.6	--	14.8
OU2MW-42I2	Temperature (° C)	33 North Clinton	13.5	14.3	15.1	14.7	14.4	14.5	14.7	14.4	14.5	13.6	--	14.2
OU2MW-42S	Temperature (° C)	33 North Clinton	13.5	14.5	16.8	17.2	16.5	16.5	17.2	16.5	16.5	14.9	--	16.0
OU2MW-43D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	13.8	13.1	13.8	--
OU2MW-43I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	15.0	13.1	15.0	--
OU2MW-43I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	14.2	12.2	14.2	--
OU2MW-43S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	15.6	12.8	15.6	--
OU2MW-44D	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	13.6	12.8	13.6	--
OU2MW-44I	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	13.5	13.1	13.5	--
OU2MW-44I2	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	13.5	12.4	13.5	--
OU2MW-44S	Temperature (° C)	Cooper Lane Ext.	--	--	--	--	--	--	--	--	14.8	12.3	14.8	--
OU2MW-45D	Temperature (° C)	34 North Clinton	15.0	15.7	15.4	14.6	16.1	13.5	14.6	16.1	13.5	13.4	13.2	14.3
OU2MW-45I	Temperature (° C)	34 North Clinton	16.1	15.9	15.3	14.4	14.7	14.8	14.4	14.7	14.8	13.6	13.1	14.4
OU2MW-45I2	Temperature (° C)	34 North Clinton	14.4	15.5	15.7	14.7	14.1	13.4	14.7	14.1	13.4	13.4	13.3	13.6
OU2MW-45S	Temperature (° C)	34 North Clinton	13.9	16.8	16.9	16.1	15.6	15.1	16.1	15.6	15.1	13.7	12.4	14.8
OU2MW-46I	Temperature (° C)	34 North Clinton	14.3	16.6	17.7	15.8	15.8	15.5	15.8	15.8	15.5	13.0	13.4	14.8
OU2MW-46I2	Temperature (° C)	34 North Clinton	14.5	16.5	17.0	16.2	14.3	13.7	16.2	14.3	13.7	11.1	12.7	13.0
OU2MW-46S	Temperature (° C)	34 North Clinton	16.0	18.7	19.9	17.4	16.7	14.5	17.4	16.7	14.5	13.2	11.3	14.8
OU2MW-47D	Temperature (° C)	34 North Clinton	14.7	16.1	16.7	15.5	14.8	14.1	15.5	14.8	14.1	12.3	13.4	13.7
OU2MW-47I	Temperature (° C)	34 North Clinton	13.6	16.2	17.0	16.0	15.2	15.4	16.0	15.2	15.4	13.5	13.8	14.7
OU2MW-47I2	Temperature (° C)	34 North Clinton	15.8	16.5	16.8	15.4	14.7	14.3	15.4	14.7	14.3	14.2	13.1	14.4
OU2MW-47S	Temperature (° C)	34 North Clinton	14.1	17.1	19.0	17.6	17.2	16.3	17.6	17.2	16.3	14.6	12.6	16.0

Table 5
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Notes:

-- Not Measured

ORP - Oxygen Reduction Potential

DO - Dissolved Oxygen

mS/cm - milli-siemens per centimeter

mg/L - milligrams per Liter

mV - milli-volt

Cooper Lane Extension is part of the 33 North Clinton System

Baseline data was collected before system startup. If multiple baseline data exists an average was used.

Oct., Nov., Dec. average represent the average parameter values collected during the last 3 months of the monitoring period

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total BTEX Groundwater Concentrations (ug/L)					
			Sampling Date					
			2008		2009			
			July-Sept.	Oct.-Dec.	Jan.	Feb.	Mar.	April
OU2MW-19D	65.0-70.0	Cooper Lane Ext	543	1,818	--	--	542	--
OU2MW-19I	13.0-23.0	Cooper Lane Ext	4,617	2,299	--	--	82	--
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	133	112	--	--	103	--
OU2MW-20D	60.0-70.0	Cooper Lane Ext	0	0	--	--	0	--
OU2MW-20I	13-23	Cooper Lane Ext	354	715	--	--	819	--
OU2MW-20I2	35-45	Cooper Lane Ext	0	0	--	--	0	--
OU2MW-20S	4.0-9.0	Cooper Lane Ext	--	0	--	--	0	--
OU2MW-28S	5.0 - 15.0	9 North Clinton	0	0	--	--	--	--
OU2MW-28I	28.0 - 33.0	9 North Clinton	400	169	--	--	93	3
OU2MW-28I2	40.0 - 45.0	9 North Clinton	0	2	--	--	1	0
OU2MW-29I	18.0 - 23.0	9 North Clinton	1,290	1,715	--	--	1,122	286
OU2MW-29I2	30.0 - 35.0	9 North Clinton	1,316	246	--	--	87	96
OU2MW-29D	40.0 - 45.0	9 North Clinton	211	405	--	--	359	388
OU2MW-30S	5.0 - 15.0	9 North Clinton	52	251	--	--	3	0
OU2MW-30I	25.0 - 30.0	9 North Clinton	312	281	--	--	208	647
OU2MW-30I2	30.0 - 35.0	9 North Clinton	533	41	--	--	43	81
OU2MW-30I3	45.0 - 50.0	9 North Clinton	91	247	--	--	254	187
OU2MW-30D	50.0 - 55.0	9 North Clinton	301	206	--	--	134	197
OU2MW-30D2	60.0 - 65.0	9 North Clinton	282	406	--	--	375	243
OU2MW-31I	18 - 23.0	9 North Clinton	512	343	--	--	779	733
OU2MW-31I2	30 - 35.0	9 North Clinton	0	0	--	--	1	204
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	--	--	0	0
OU2MW-32I	20.0 - 25.0	9 North Clinton	2,073	1,355	--	--	3,698	4,436
OU2MW-32I2	30.0 - 35.0	9 North Clinton	1,493	375	--	--	71	46
OU2MW-32D	40.0 - 45.0	9 North Clinton	57	177	--	--	25	8
OU2MW-35S	5.0 - 15.0	33 North Clinton	--	17	--	--	9	16
OU2MW-35I	25.0 - 30.0	33 North Clinton	--	678	--	--	9	12
OU2MW-35I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	--	0	--	--	0	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	--	288	--	--	55	42
OU2MW-36I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	--	0	--	--	0	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	9
OU2MW-37I	25.0 - 30.0	33 North Clinton	--	87	--	--	373	411
OU2MW-37I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	4

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total BTEX Groundwater Concentrations (ug/L)					
			Sampling Date					
			2008		2009			
			July-Sept.	Oct.-Dec.	Jan.	Feb.	Mar.	April
OU2MW-37D	67.0 - 72.0	33 North Clinton	--	0	--	--	0	0
OU2MW-39S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	0
OU2MW-39I	25.0 - 30.0	33 North Clinton	--	0	--	--	0	2
OU2MW-39I2	45.0 - 50.0	33 North Clinton	--	1	--	--	0	0
OU2MW-39D	70.0 - 75.0	33 North Clinton	--	0	--	--	0	0
OU2MW-42S	5.0 - 15.0	33 North Clinton	--	--	--	--	57	22
OU2MW-42I	25.0 - 30.0	33 North Clinton	--	--	--	--	24	4
OU2MW-42I2	45.0 - 50.0	33 North Clinton	--	--	--	--	0	0
OU2MW-42D	60.0 - 65.0	33 North Clinton	--	--	--	--	0	0
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	34 North Clinton	--	108	60	9	20	15
OU2MW-45I	20.0 - 25.0	34 North Clinton	--	3	10	0	0	11
OU2MW-45I2	40.0 - 45.0	34 North Clinton	--	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	34 North Clinton	--	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	34 North Clinton	--	421	422	12	0	0
OU2MW-46I	20.0 - 25.0	34 North Clinton	--	1,898	1,991	100	53	13
OU2MW-46I2	40.0 - 45.0	34 North Clinton	--	2	11	59	375	108
OU2MW-47S	5.0 - 15.0	34 North Clinton	--	148	146	1	0	0
OU2MW-47I	20.0 - 25.0	34 North Clinton	--	1,039	2,714	42	15	16
OU2MW-47I2	40.0 - 45.0	34 North Clinton	--	297	159	75	40	7
OU2MW-47D	60.0 - 65.0	34 North Clinton	--	472	442	569	546	695

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total BTEX Groundwater Concentrations (ug/L)							
			Sampling Date							
			2009							
			May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
OU2MW-19D	65.0-70.0	Cooper Lane Ext	--	341	--	127	--	--	152	--
OU2MW-19I	13.0-23.0	Cooper Lane Ext	--	110	--	121	--	--	65	--
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	--	75	--	--	61	--	108	--
OU2MW-20D	60.0-70.0	Cooper Lane Ext	--	0	--	0	--	--	--	0
OU2MW-20I	13-23	Cooper Lane Ext	--	158	--	28	--	--	--	10
OU2MW-20I2	35-45	Cooper Lane Ext	--	0	--	0	--	--	--	0
OU2MW-20S	4.0-9.0	Cooper Lane Ext	--	0	--	0	--	--	--	0
OU2MW-28S	5.0 - 15.0	9 North Clinton	--	--	0	0	0	1	0	0
OU2MW-28I	28.0 - 33.0	9 North Clinton	0	0	0	0	4	42	569	98
OU2MW-28I2	40.0 - 45.0	9 North Clinton	0	2	4	33	72	40	41	66
OU2MW-29I	18.0 - 23.0	9 North Clinton	440	480	150	78	31	263	152	4
OU2MW-29I2	30.0 - 35.0	9 North Clinton	75	53	36	88	99	72	140	52
OU2MW-29D	40.0 - 45.0	9 North Clinton	329	287	181	152	173	130	131	211
OU2MW-30S	5.0 - 15.0	9 North Clinton	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	9 North Clinton	729	351	240	135	218	292	481	5
OU2MW-30I2	30.0 - 35.0	9 North Clinton	471	387	549	397	195	132	166	143
OU2MW-30I3	45.0 - 50.0	9 North Clinton	248	130	105	72	31	20	12	19
OU2MW-30D	50.0 - 55.0	9 North Clinton	126	68	24	27	30	42	73	117
OU2MW-30D2	60.0 - 65.0	9 North Clinton	347	263	260	283	220	238	195	303
OU2MW-31I	18 - 23.0	9 North Clinton	856	50	2	5	3	973	144	1
OU2MW-31I2	30 - 35.0	9 North Clinton	413	317	225	116	59	134	17	0
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	9 North Clinton	5,013	3,016	2,094	1,470	701	116	132	899
OU2MW-32I2	30.0 - 35.0	9 North Clinton	57	30	30	32	7	1	0	2
OU2MW-32D	40.0 - 45.0	9 North Clinton	3	1	0	0	0	0	0	0
OU2MW-35S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-35I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	9	0	0	0	0	0	0	0
OU2MW-36I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	0	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	0	0	0	0	18	0	0	0
OU2MW-37I	25.0 - 30.0	33 North Clinton	365	10	2	347	2,623	3,197	259	3
OU2MW-37I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	0	0	0

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total BTEX Groundwater Concentrations (ug/L)								
			Sampling Date								
			2009								
			May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
OU2MW-37D	67.0 - 72.0	33 North Clinton	0	0	0	0	0	0	0	0	
OU2MW-39S	5.0 - 15.0	33 North Clinton	2	0	0	0	0	0	0	0	
OU2MW-39I	25.0 - 30.0	33 North Clinton	5	0	0	0	0	0	25	4	
OU2MW-39I2	45.0 - 50.0	33 North Clinton	0	1	2	3	3	0	0	0	
OU2MW-39D	70.0 - 75.0	33 North Clinton	0	0	0	0	0	0	0	0	
OU2MW-42S	5.0 - 15.0	33 North Clinton	11	3	0	0	11	0	0	0	
OU2MW-42I	25.0 - 30.0	33 North Clinton	0	1	0	94	86	5	27	18	
OU2MW-42I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	0	0	0	
OU2MW-42D	60.0 - 65.0	33 North Clinton	0	0	2	63	100	116	83	45	
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--	584	963	
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--	86	205	
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--	73	81	
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--	69	58	
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--	0	0	
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--	4	0	
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--	0	0	
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--	0	0	
OU2MW-45S	5.0 - 15.0	34 North Clinton	9	5	0	0	27	113	80	67	
OU2MW-45I	20.0 - 25.0	34 North Clinton	8	20	65	7	1	0	0	2	
OU2MW-45I2	40.0 - 45.0	34 North Clinton	0	0	0	0	0	0	0	0	
OU2MW-45D	55.0 - 60.0	34 North Clinton	0	0	0	0	0	0	0	0	
OU2MW-46S	5.0 - 15.0	34 North Clinton	0	21	0	0	0	0	0	0	
OU2MW-46I	20.0 - 25.0	34 North Clinton	2	37	0	0	0	0	0	0	
OU2MW-46I2	40.0 - 45.0	34 North Clinton	185	0	2	0	0	0	2	0	
OU2MW-47S	5.0 - 15.0	34 North Clinton	0	0	0	0	0	0	6	5	
OU2MW-47I	20.0 - 25.0	34 North Clinton	40	0	11	1	0	0	1	0	
OU2MW-47I2	40.0 - 45.0	34 North Clinton	1	1	9	22	173	9	12	3	
OU2MW-47D	60.0 - 65.0	34 North Clinton	587	627	423	271	258	297	254	234	

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Base Line Value	Oct., Nov., Dec. Average	Minimum	Maximum	Average
OU2MW-19D	65.0-70.0	Cooper Lane Ext	543	--	127	1,818	587
OU2MW-19I	13.0-23.0	Cooper Lane Ext	4,617	--	65	4,617	1216
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	133	--	61	133	99
OU2MW-20D	60.0-70.0	Cooper Lane Ext	0	--	0	0	0
OU2MW-20I	13-23	Cooper Lane Ext	354	--	10	819	347
OU2MW-20I2	35-45	Cooper Lane Ext	0	--	0	0	0
OU2MW-20S	4.0-9.0	Cooper Lane Ext	0	--	0	0	0
OU2MW-28S	5.0 - 15.0	9 North Clinton	0	0	0	1	0
OU2MW-28I	28.0 - 33.0	9 North Clinton	169	236	0	569	115
OU2MW-28I2	40.0 - 45.0	9 North Clinton	2	49	0	72	22
OU2MW-29I	18.0 - 23.0	9 North Clinton	1,715	140	4	1,715	501
OU2MW-29I2	30.0 - 35.0	9 North Clinton	246	88	36	1,316	197
OU2MW-29D	40.0 - 45.0	9 North Clinton	405	157	130	405	246
OU2MW-30S	5.0 - 15.0	9 North Clinton	251	0	0	251	26
OU2MW-30I	25.0 - 30.0	9 North Clinton	281	259	5	729	325
OU2MW-30I2	30.0 - 35.0	9 North Clinton	41	147	41	549	262
OU2MW-30I3	45.0 - 50.0	9 North Clinton	247	17	12	254	118
OU2MW-30D	50.0 - 55.0	9 North Clinton	206	77	24	301	112
OU2MW-30D2	60.0 - 65.0	9 North Clinton	406	245	195	406	285
OU2MW-31I	18 - 23.0	9 North Clinton	343	373	1	973	367
OU2MW-31I2	30 - 35.0	9 North Clinton	0	50	0	413	124
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	9 North Clinton	1,355	382	116	5,013	2084
OU2MW-32I2	30.0 - 35.0	9 North Clinton	375	1	0	1,493	179
OU2MW-32D	40.0 - 45.0	9 North Clinton	177	0	0	177	23
OU2MW-35S	5.0 - 15.0	33 North Clinton	17	0	0	17	4
OU2MW-35I	25.0 - 30.0	33 North Clinton	678	0	0	678	64
OU2MW-35I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	0	0	0	0	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	288	0	0	288	36
OU2MW-36I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	0	0	0	18	2
OU2MW-37I	25.0 - 30.0	33 North Clinton	87	1,153	2	3,197	698
OU2MW-37I2	45.0 - 50.0	33 North Clinton	0	0	0	4	0

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Base Line Value	Oct., Nov., Dec. Average	Minimum	Maximum	Average
OU2MW-37D	67.0 - 72.0	33 North Clinton	0	0	0	0	0
OU2MW-39S	5.0 - 15.0	33 North Clinton	0	0	0	2	0
OU2MW-39I	25.0 - 30.0	33 North Clinton	0	10	0	25	3
OU2MW-39I2	45.0 - 50.0	33 North Clinton	1	0	0	3	1
OU2MW-39D	70.0 - 75.0	33 North Clinton	0	0	0	0	0
OU2MW-42S	5.0 - 15.0	33 North Clinton	57	0	0	57	10
OU2MW-42I	25.0 - 30.0	33 North Clinton	24	17	0	94	26
OU2MW-42I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	33 North Clinton	0	81	0	116	41
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	584	774	584	963	774
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	86	146	86	205	146
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	73	77	73	81	77
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	69	64	58	69	64
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	4	2	0	4	2
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	34 North Clinton	108	87	0	113	39
OU2MW-45I	20.0 - 25.0	34 North Clinton	3	1	0	65	10
OU2MW-45I2	40.0 - 45.0	34 North Clinton	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	34 North Clinton	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	34 North Clinton	421	0	0	422	67
OU2MW-46I	20.0 - 25.0	34 North Clinton	1,898	0	0	1,991	315
OU2MW-46I2	40.0 - 45.0	34 North Clinton	2	1	0	375	57
OU2MW-47S	5.0 - 15.0	34 North Clinton	148	4	0	148	24
OU2MW-47I	20.0 - 25.0	34 North Clinton	1,039	0	0	2,714	298
OU2MW-47I2	40.0 - 45.0	34 North Clinton	297	8	1	297	62
OU2MW-47D	60.0 - 65.0	34 North Clinton	472	262	234	695	437

Table 6
Monthly Total BTEX Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

NOTES:

ug/L - micrograms per liter or parts per billion (ppb)

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)

Total BTEX are calculated using detects only.

-- not analyzed or not applicable

If no compounds were detected in the group the value is listed as zero.

Cooper Lane Extension is part of the 33 North Clinton System

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total PAH Groundwater Concentrations (ug/L)						
			Sampling Date						
			2008		2009				
			July-Sept.	Oct.-Dec.	Jan.	Feb.	Mar.	April	May
OU2MW-19D	65.0-70.0	Cooper Lane Ext	801	3,718	--	--	1,862	--	--
OU2MW-19I	13.0-23.0	Cooper Lane Ext	1,459	357	--	--	175	--	--
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	7,648	6,239	--	--	7,147	--	--
OU2MW-20D	60.0-70.0	Cooper Lane Ext	2	0	--	--	0	--	--
OU2MW-20I	13-23	Cooper Lane Ext	91	0	--	--	74	--	--
OU2MW-20I2	35-45	Cooper Lane Ext	0	0	--	--	0	--	--
OU2MW-20S	4.0-9.0	Cooper Lane Ext	--	0	--	--	0	--	--
OU2MW-28S	5.0 - 15.0	9 North Clinton	0	0	--	--	0	0	1
OU2MW-28I	28.0 - 33.0	9 North Clinton	283	132	--	--	121	0	0
OU2MW-28I2	40.0 - 45.0	9 North Clinton	12	16	--	--	15	0	0
OU2MW-29I	18.0 - 23.0	9 North Clinton	863	1,083	--	--	700	228	206
OU2MW-29I2	30.0 - 35.0	9 North Clinton	3,642	6,159	--	--	2,778	6,117	4,259
OU2MW-29D	40.0 - 45.0	9 North Clinton	2,656	2,474	--	--	314	2,842	27
OU2MW-30S	5.0 - 15.0	9 North Clinton	2	1,990	--	--	10	0	0
OU2MW-30I	25.0 - 30.0	9 North Clinton	5,560	7,304	--	--	5,175	2,186	13
OU2MW-30I2	30.0 - 35.0	9 North Clinton	6,605	5,671	--	--	6,025	4,696	1,712
OU2MW-30I3	45.0 - 50.0	9 North Clinton	93	5,101	--	--	5,562	5,586	1,043
OU2MW-30D	50.0 - 55.0	9 North Clinton	1,087	5,989	--	--	1,652	4,681	1,851
OU2MW-30D2	60.0 - 65.0	9 North Clinton	2,638	4,689	--	--	4,735	2,274	87
OU2MW-31I	18 - 23.0	9 North Clinton	212	488	--	--	79	137	35
OU2MW-31I2	30 - 35.0	9 North Clinton	1	6	--	--	0	431	841
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	--	--	63	0	0
OU2MW-32I	20.0 - 25.0	9 North Clinton	4,029	3,970	--	--	2,818	4,029	6,696
OU2MW-32I2	30.0 - 35.0	9 North Clinton	5,230	3,459	--	--	1,164	286	357
OU2MW-32D	40.0 - 45.0	9 North Clinton	29	1,336	--	--	189	10	0
OU2MW-35S	5.0 - 15.0	33 North Clinton	--	3	--	--	0	0	0
OU2MW-35I	25.0 - 30.0	33 North Clinton	--	2,270	--	--	250	3	8
OU2MW-35I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	--	4	--	--	0	0	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	--	1,302	--	--	573	325	307
OU2MW-36I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	--	0	--	--	1	0	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	3	0

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total PAH Groundwater Concentrations (ug/L)						
			Sampling Date						
			2008		2009				
			July-Sept.	Oct.-Dec.	Jan.	Feb.	Mar.	April	May
OU2MW-37I	25.0 - 30.0	33 North Clinton	--	43	--	--	38	130	216
OU2MW-37I2	45.0 - 50.0	33 North Clinton	--	0	--	--	0	3	0
OU2MW-37D	67.0 - 72.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-39S	5.0 - 15.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-39I	25.0 - 30.0	33 North Clinton	--	32	--	--	4	3	0
OU2MW-39I2	45.0 - 50.0	33 North Clinton	--	1	--	--	0	14	30
OU2MW-39D	70.0 - 75.0	33 North Clinton	--	0	--	--	0	0	0
OU2MW-42S	5.0 - 15.0	33 North Clinton	--	--	--	--	145	107	107
OU2MW-42I	25.0 - 30.0	33 North Clinton	--	--	--	--	9	0	2
OU2MW-42I2	45.0 - 50.0	33 North Clinton	--	--	--	--	0	0	0
OU2MW-42D	60.0 - 65.0	33 North Clinton	--	--	--	--	0	4	1
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	34 North Clinton	--	3	9	0	0	0	0
OU2MW-45I	20.0 - 25.0	34 North Clinton	--	30	8	1	0	2	2
OU2MW-45I2	40.0 - 45.0	34 North Clinton	--	39	7	0	0	0	0
OU2MW-45D	55.0 - 60.0	34 North Clinton	--	0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	34 North Clinton	--	0	31	4	0	0	0
OU2MW-46I	20.0 - 25.0	34 North Clinton	--	2,503	2,169	12	5	12	3
OU2MW-46I2	40.0 - 45.0	34 North Clinton	--	0	0	0	4	26	56
OU2MW-47S	5.0 - 15.0	34 North Clinton	--	56	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	34 North Clinton	--	785	1,043	1	3	0	4
OU2MW-47I2	40.0 - 45.0	34 North Clinton	--	6,146	3,627	2,389	49	8	2
OU2MW-47D	60.0 - 65.0	34 North Clinton	--	7,437	7,007	5,890	5,237	4,846	6,563

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total PAH Groundwater Concentrations (ug/L)						
			Sampling Date						
			2009						
			June	July	Aug.	Sept.	Oct.	Nov.	Dec.
OU2MW-19D	65.0-70.0	Cooper Lane Ext	2,841	--	3,601	--	--	2,932	--
OU2MW-19I	13.0-23.0	Cooper Lane Ext	92	--	146	--	--	55	--
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	6,811	--	--	3,337	--	5,885	--
OU2MW-20D	60.0-70.0	Cooper Lane Ext	0	--	0	--	--	--	2
OU2MW-20I	13-23	Cooper Lane Ext	0	--	0	--	--	--	5
OU2MW-20I2	35-45	Cooper Lane Ext	0	--	0	--	--	--	0
OU2MW-20S	4.0-9.0	Cooper Lane Ext	0	--	0	--	--	--	0
OU2MW-28S	5.0 - 15.0	9 North Clinton	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	9 North Clinton	0	0	1	11	0	832	13
OU2MW-28I2	40.0 - 45.0	9 North Clinton	0	0	716	1,712	3,139	2,200	532
OU2MW-29I	18.0 - 23.0	9 North Clinton	513	229	54	38	700	370	6
OU2MW-29I2	30.0 - 35.0	9 North Clinton	1,015	262	988	274	81	1,709	501
OU2MW-29D	40.0 - 45.0	9 North Clinton	1,679	213	3,341	2,937	3,440	2,579	2,890
OU2MW-30S	5.0 - 15.0	9 North Clinton	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	9 North Clinton	21	0	37	33	26	201	6
OU2MW-30I2	30.0 - 35.0	9 North Clinton	356	513	388	195	34	303	76
OU2MW-30I3	45.0 - 50.0	9 North Clinton	24	23	101	94	59	10	80
OU2MW-30D	50.0 - 55.0	9 North Clinton	2,151	45	93	84	70	581	586
OU2MW-30D2	60.0 - 65.0	9 North Clinton	12	0	182	15	31	720	2,904
OU2MW-31I	18 - 23.0	9 North Clinton	4	0	7	4	717	184	0
OU2MW-31I2	30 - 35.0	9 North Clinton	645	207	100	21	178	0	1
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	9 North Clinton	7,796	3,865	3,954	4,621	762	770	2,814
OU2MW-32I2	30.0 - 35.0	9 North Clinton	408	107	289	94	60	51	39
OU2MW-32D	40.0 - 45.0	9 North Clinton	32	22	22	10	0	0	0
OU2MW-35S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	33 North Clinton	6	0	0	0	0	0	0
OU2MW-35I2	45.0 - 50.0	33 North Clinton	0	1	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-36I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	5	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Total PAH Groundwater Concentrations (ug/L)						
			Sampling Date						
			2009						
			June	July	Aug.	Sept.	Oct.	Nov.	Dec.
OU2MW-37I	25.0 - 30.0	33 North Clinton	67	22	14	23	77	28	0
OU2MW-37I2	45.0 - 50.0	33 North Clinton	0	0	1	0	0	0	0
OU2MW-37D	67.0 - 72.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-39S	5.0 - 15.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	33 North Clinton	55	73	134	130	35	4	1
OU2MW-39D	70.0 - 75.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-42S	5.0 - 15.0	33 North Clinton	0	0	8	0	4	2	0
OU2MW-42I	25.0 - 30.0	33 North Clinton	0	0	1	0	0	2	0
OU2MW-42I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	33 North Clinton	1	3	67	185	363	355	373
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	814	219
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	2,647	197
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	9,818	5,130
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	2,259	14
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	--	--	--	--	--	0	0
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	--	--	--	--	--	0	1
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	--	--	--	--	--	0	0
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	--	--	--	--	--	0	0
OU2MW-45S	5.0 - 15.0	34 North Clinton	0	0	0	5	54	0	45
OU2MW-45I	20.0 - 25.0	34 North Clinton	5	23	5	1	0	2	2
OU2MW-45I2	40.0 - 45.0	34 North Clinton	0	0	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	34 North Clinton	0	0	0	2	0	0	0
OU2MW-46S	5.0 - 15.0	34 North Clinton	0	0	0	0	0	0	0
OU2MW-46I	20.0 - 25.0	34 North Clinton	1	0	0	0	0	0	0
OU2MW-46I2	40.0 - 45.0	34 North Clinton	9	0	0	0	3	0	0
OU2MW-47S	5.0 - 15.0	34 North Clinton	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	34 North Clinton	2	0	0	0	6	0	1
OU2MW-47I2	40.0 - 45.0	34 North Clinton	0	3	8	31	2	9	7
OU2MW-47D	60.0 - 65.0	34 North Clinton	6,751	4,577	5,147	3,906	2,094	1,459	1,550

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Base Line Value	Oct., Nov., Dec. Average	Minimum	Maximum	Average
OU2MW-19D	65.0-70.0	Cooper Lane Ext	801	--	801	3,718	2,626
OU2MW-19I	13.0-23.0	Cooper Lane Ext	1,459	--	55	1,459	381
OU2MW-19I2	35.0-45.0	Cooper Lane Ext	7,648	--	3,337	7,648	6,178
OU2MW-20D	60.0-70.0	Cooper Lane Ext	2	--	0	2	1
OU2MW-20I	13-23	Cooper Lane Ext	91	--	0	91	28
OU2MW-20I2	35-45	Cooper Lane Ext	0	--	0	0	0
OU2MW-20S	4.0-9.0	Cooper Lane Ext	0	--	0	0	0
OU2MW-28S	5.0 - 15.0	9 North Clinton	0	0	0	1	0
OU2MW-28I	28.0 - 33.0	9 North Clinton	132	282	0	832	116
OU2MW-28I2	40.0 - 45.0	9 North Clinton	16	1,957	0	3,139	695
OU2MW-29I	18.0 - 23.0	9 North Clinton	1,083	359	6	1,083	416
OU2MW-29I2	30.0 - 35.0	9 North Clinton	6,159	764	81	6,159	2,315
OU2MW-29D	40.0 - 45.0	9 North Clinton	2,474	2,970	27	3,440	2,116
OU2MW-30S	5.0 - 15.0	9 North Clinton	1,990	0	0	1,990	167
OU2MW-30I	25.0 - 30.0	9 North Clinton	7,304	78	0	7,304	1,714
OU2MW-30I2	30.0 - 35.0	9 North Clinton	5,671	138	34	6,605	2,215
OU2MW-30I3	45.0 - 50.0	9 North Clinton	5,101	50	10	5,586	1,481
OU2MW-30D	50.0 - 55.0	9 North Clinton	5,989	412	45	5,989	1,573
OU2MW-30D2	60.0 - 65.0	9 North Clinton	4,689	1,218	0	4,735	1,524
OU2MW-31I	18 - 23.0	9 North Clinton	488	300	0	717	156
OU2MW-31I2	30 - 35.0	9 North Clinton	6	60	0	841	203
OU2MW-32S	5.0 - 15.0	9 North Clinton	0	0	0	63	5
OU2MW-32I	20.0 - 25.0	9 North Clinton	3,970	1,449	762	7,796	3,844
OU2MW-32I2	30.0 - 35.0	9 North Clinton	3,459	50	39	5,230	962
OU2MW-32D	40.0 - 45.0	9 North Clinton	1,336	0	0	1,336	138
OU2MW-35S	5.0 - 15.0	33 North Clinton	3	0	0	3	0
OU2MW-35I	25.0 - 30.0	33 North Clinton	2,270	0	0	2,270	231
OU2MW-35I2	45.0 - 50.0	33 North Clinton	0	0	0	1	0
OU2MW-35D	57.0 - 62.0	33 North Clinton	4	0	0	4	0
OU2MW-36S	5.0 - 15.0	33 North Clinton	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	33 North Clinton	1,302	0	0	1,302	228
OU2MW-36I2	45.0 - 50.0	33 North Clinton	0	2	0	5	0
OU2MW-36D	61.0 - 66.0	33 North Clinton	0	0	0	1	0
OU2MW-37S	5.0 - 15.0	33 North Clinton	0	0	0	3	0

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet)	Oxygen Injection System	Base Line Value	Oct., Nov., Dec. Average	Minimum	Maximum	Average
OU2MW-37I	25.0 - 30.0	33 North Clinton	43	35	0	216	60
OU2MW-37I2	45.0 - 50.0	33 North Clinton	0	0	0	3	0
OU2MW-37D	67.0 - 72.0	33 North Clinton	0	0	0	0	0
OU2MW-39S	5.0 - 15.0	33 North Clinton	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	33 North Clinton	32	0	0	32	4
OU2MW-39I2	45.0 - 50.0	33 North Clinton	1	13	0	134	43
OU2MW-39D	70.0 - 75.0	33 North Clinton	0	0	0	0	0
OU2MW-42S	5.0 - 15.0	33 North Clinton	145	2	0	145	37
OU2MW-42I	25.0 - 30.0	33 North Clinton	9	1	0	9	1
OU2MW-42I2	45.0 - 50.0	33 North Clinton	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	33 North Clinton	0	364	0	373	135
OU2MW-43S	5.0 - 15.0	Cooper Lane Ext	814	517	219	814	517
OU2MW-43I	25.0 - 30.0	Cooper Lane Ext	2,647	1,422	197	2,647	1,422
OU2MW-43I2	45.0 - 50.0	Cooper Lane Ext	9,818	7,474	5,130	9,818	7,474
OU2MW-43D	65.0 - 70.0	Cooper Lane Ext	2,259	1,137	14	2,259	1,137
OU2MW-44S	5.0 - 15.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	Cooper Lane Ext	0	1	0	1	1
OU2MW-44I2	45.0 - 50.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	Cooper Lane Ext	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	34 North Clinton	3	33	0	54	9
OU2MW-45I	20.0 - 25.0	34 North Clinton	30	1	0	30	6
OU2MW-45I2	40.0 - 45.0	34 North Clinton	39	0	0	39	4
OU2MW-45D	55.0 - 60.0	34 North Clinton	0	0	0	2	0
OU2MW-46S	5.0 - 15.0	34 North Clinton	0	0	0	31	3
OU2MW-46I	20.0 - 25.0	34 North Clinton	2,503	0	0	2,503	362
OU2MW-46I2	40.0 - 45.0	34 North Clinton	0	1	0	56	8
OU2MW-47S	5.0 - 15.0	34 North Clinton	56	0	0	56	4
OU2MW-47I	20.0 - 25.0	34 North Clinton	785	2	0	1,043	142
OU2MW-47I2	40.0 - 45.0	34 North Clinton	6,146	6	0	6,146	945
OU2MW-47D	60.0 - 65.0	34 North Clinton	7,437	1,701	1,459	7,437	4,805

Table 7
Monthly Total PAHs Groundwater Analytical Data Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

NOTES:

ug/L - micrograms per liter or parts per billion (ppb)

PAHs - polycyclic aromatic hydrocarbons

Total PAHs are calculated using detects only.

-- not analyzed or not applicable

If no compounds were detected in the group the value is listed as zero.

Cooper Lane Extension is part of the 33 North Clinton System

Table 8
Heterotrophic Plate Count Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Associated System	Total Heterotrophic Plate Count (cfu/ml)					
		May-08	Sep-08	Dec-08	Jan-09	Feb-09	Mar-09
OU2MW-19I	Cooper Lane Ext	880	--	--	--	--	--
OU2MW-19I2	Cooper Lane Ext	1,900	--	--	--	--	--
OU2MW-20I	Cooper Lane Ext	110	--	--	--	--	--
OU2MW-20I2	Cooper Lane Ext	1,400	--	--	--	--	--
OU2MW-20S	Cooper Lane Ext	180	--	--	--	--	--
OU2MW-28I	9 N Clinton	--	29	--	--	--	4,600
OU2MW-28I2	9 N Clinton	--	860	--	--	--	2,300
OU2MW-28S	9 N Clinton	--	4,600	--	--	--	420
OU2MW-29D	9 N Clinton	--	3,300	--	--	--	1,800
OU2MW-29I	9 N Clinton	--	480	--	--	--	5,000
OU2MW-29I2	9 N Clinton	--	890	--	--	--	3,600
OU2MW-30D	9 N Clinton	--	14,000	--	--	--	13,000
OU2MW-30D2	9 N Clinton	--	101,200	--	--	--	3,000
OU2MW-30I	9 N Clinton	--	10,000	--	--	--	240
OU2MW-30I2	9 N Clinton	--	540	--	--	--	960
OU2MW-30I3	9 N Clinton	--	2,100	--	--	--	18,000
OU2MW-30S	9 N Clinton	--	3,200	--	--	--	720
OU2MW-31I	9 N Clinton	--	100	--	--	--	13,000
OU2MW-31I2	9 N Clinton	--	1,300	--	--	--	1,600
OU2MW-32D	9 N Clinton	--	1,100	--	--	--	300
OU2MW-32I	9 N Clinton	--	77	--	--	--	70
OU2MW-32I2	9 N Clinton	--	26	--	--	--	2,300
OU2MW-32S	9 N Clinton	--	170	--	--	--	69
OU2MW-35D	33 N Clinton	--	--	--	1,100	--	--
OU2MW-35I	33 N Clinton	--	--	--	220	--	--
OU2MW-35I2	33 N Clinton	--	--	--	1,100	--	--
OU2MW-35S	33 N Clinton	--	--	140	--	--	--
OU2MW-36D	33 N Clinton	--	--	4,000	--	--	--
OU2MW-36I	33 N Clinton	--	--	120	--	--	--
OU2MW-36I2	33 N Clinton	--	--	100	--	--	--
OU2MW-36S	33 N Clinton	--	--	62	--	--	--
OU2MW-37D	33 N Clinton	--	--	--	2,700	--	--
OU2MW-37I	33 N Clinton	--	--	--	230	--	--
OU2MW-37I2	33 N Clinton	--	--	--	1,700	--	--
OU2MW-37S	33 N Clinton	--	--	--	130	--	--
OU2MW-38D	33 N Clinton	--	--	--	230	--	--
OU2MW-38I	33 N Clinton	--	--	--	280	--	--
OU2MW-38I2	33 N Clinton	--	--	--	240	--	--
OU2MW-38S	33 N Clinton	--	--	--	120	--	--
OU2MW-39D	33 N Clinton	--	--	--	20,000	--	--
OU2MW-39I	33 N Clinton	--	--	--	4,200	--	--
OU2MW-39I2	33 N Clinton	--	--	--	1,200	--	--
OU2MW-39S	33 N Clinton	--	--	--	23,000	--	--
OU2MW-40I	9 N Clinton	--	190	--	--	--	--
OU2MW-40S	9 N Clinton	--	820	--	--	--	--
OU2MW-41I	9 N Clinton	--	42	--	--	--	--
OU2MW-41S	9 N Clinton	--	6,000	--	--	--	--
OU2MW-42D	33 N Clinton	--	--	--	--	--	13,000
OU2MW-42I	33 N Clinton	--	--	--	--	--	74
OU2MW-42I2	33 N Clinton	--	--	--	--	--	130
OU2MW-42S	33 N Clinton	--	--	--	--	--	1,040
OU2MW-43D	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43I2	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43I	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-43S	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44D	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44I2	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44I	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-44S	Cooper Lane Ext	--	--	--	--	--	--
OU2MW-45D	34 N Clinton	--	--	--	220	360	310
OU2MW-45I	34 N Clinton	--	--	--	20	700	86
OU2MW-45I2	34 N Clinton	--	--	--	240	620	250
OU2MW-45S	34 N Clinton	--	--	--	86	1,200	270
OU2MW-46I	34 N Clinton	--	--	--	110	120,000	11,000
OU2MW-46I2	34 N Clinton	--	--	--	32	860	300
OU2MW-46S	34 N Clinton	--	--	--	18	4,800	15,000
OU2MW-47D	34 N Clinton	--	--	--	640	98,000	14,000
OU2MW-47I	34 N Clinton	--	--	--	4	68,000	2,600
OU2MW-47I2	34 N Clinton	--	--	--	24	73,000	9,800
OU2MW-47S	34 N Clinton	--	--	--	75	8,700	64,000

Table 8
Heterotrophic Plate Count Summary for Targeted Wells
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Associated System	Total Heterotrophic Plate Count (cfu/ml)							Base Line Value
		Apr-09	May-09	Jun-09	Aug-09	Sep-09	Nov-09	Dec-09	
OU2MW-19I	Cooper Lane Ext	--	--	--	--	--	--	--	880
OU2MW-19I2	Cooper Lane Ext	--	--	--	--	--	--	--	1,900
OU2MW-20I	Cooper Lane Ext	--	--	--	--	--	--	--	110
OU2MW-20I2	Cooper Lane Ext	--	--	--	--	--	--	--	1,400
OU2MW-20S	Cooper Lane Ext	--	--	--	--	--	--	--	180
OU2MW-28I	9 N Clinton	4,400	11,000	1,300	200	--	11,000	--	29
OU2MW-28I2	9 N Clinton	1,200	960	540	140	--	180	--	860
OU2MW-28S	9 N Clinton	320	280	1,400	91	--	520	--	4,600
OU2MW-29D	9 N Clinton	180	180	180	1,100	--	300	--	3,300
OU2MW-29I	9 N Clinton	2,100	13,000	14,000	240	--	8,700	--	480
OU2MW-29I2	9 N Clinton	7,100	13,000	16,000	5,000	--	78,000	--	890
OU2MW-30D	9 N Clinton	13,000	16,000	107,600	15,000	--	106,900	--	14,000
OU2MW-30D2	9 N Clinton	100,500	105,000	135,350	18,000	--	101,200	--	101,200
OU2MW-30I	9 N Clinton	13,000	26,000	63,450	81,250	--	21,000	--	10,000
OU2MW-30I2	9 N Clinton	16,000	145,000	66,950	23,000	--	9,400	--	540
OU2MW-30I3	9 N Clinton	3,800	18,000	67,700	62,700	--	162,500	--	2,100
OU2MW-30S	9 N Clinton	1,200	10,000	2,500	6,200	--	280	--	3,200
OU2MW-31I	9 N Clinton	13,000	102,000	64,150	260	--	27,000	--	100
OU2MW-31I2	9 N Clinton	520	1,600	1,800	340	--	112,600	--	1,300
OU2MW-32D	9 N Clinton	42	58	20	10	--	13	--	1,100
OU2MW-32I	9 N Clinton	160	35	280	240	--	880	--	77
OU2MW-32I2	9 N Clinton	230	180	26	26	--	69	--	26
OU2MW-32S	9 N Clinton	99	24	4,800	160	--	24	--	170
OU2MW-35D	33 N Clinton	1,500	1,100	250	--	87	--	460	1,100
OU2MW-35I	33 N Clinton	12,000	12,000	340	--	32	--	290	220
OU2MW-35I2	33 N Clinton	170	100	29	--	74	--	10	1,100
OU2MW-35S	33 N Clinton	230	100	300	--	45	--	12	140
OU2MW-36D	33 N Clinton	240	83	140	--	65	--	1,100	4,000
OU2MW-36I	33 N Clinton	1,000	710	1,500	--	320	--	170	120
OU2MW-36I2	33 N Clinton	45	53	57	--	1,100	--	560	100
OU2MW-36S	33 N Clinton	33	63	130	--	500	--	42	62
OU2MW-37D	33 N Clinton	1,055	240	200	--	50	--	4,400	2,700
OU2MW-37I	33 N Clinton	1,800	2,100	750	--	2,500	--	700	230
OU2MW-37I2	33 N Clinton	170	180	400	--	430	--	450	1,700
OU2MW-37S	33 N Clinton	560	130	1,100	--	2,100	--	280	130
OU2MW-38D	33 N Clinton	--	--	--	--	--	--	--	230
OU2MW-38I	33 N Clinton	--	--	--	--	--	--	--	280
OU2MW-38I2	33 N Clinton	--	--	--	--	--	--	--	240
OU2MW-38S	33 N Clinton	--	--	--	--	--	--	--	120
OU2MW-39D	33 N Clinton	730	960	250	--	54	--	150	20,000
OU2MW-39I	33 N Clinton	3,600	11,000	4,100	--	200	--	54	4,200
OU2MW-39I2	33 N Clinton	54	33	1	--	6	--	38	1,200
OU2MW-39S	33 N Clinton	7	41	19	--	40	--	45	23,000
OU2MW-40I	9 N Clinton	--	--	--	--	--	--	--	190
OU2MW-40S	9 N Clinton	--	--	--	--	--	--	--	820
OU2MW-41I	9 N Clinton	--	--	--	--	--	--	--	42
OU2MW-41S	9 N Clinton	--	--	--	--	--	--	--	6,000
OU2MW-42D	33 N Clinton	620	910	240	--	2,900	--	1,300	--
OU2MW-42I	33 N Clinton	94,000	12,000	2,200	--	3,400	--	4,600	--
OU2MW-42I2	33 N Clinton	2,500	620	140	--	200	--	1,100	--
OU2MW-42S	33 N Clinton	300	210	5,700	--	150	--	700	--
OU2MW-43D	Cooper Lane Ext	--	--	--	--	--	2,100	--	2,100
OU2MW-43I2	Cooper Lane Ext	--	--	--	--	--	760	--	760
OU2MW-43I	Cooper Lane Ext	--	--	--	--	--	430	--	430
OU2MW-43S	Cooper Lane Ext	--	--	--	--	--	75	--	75
OU2MW-44D	Cooper Lane Ext	--	--	--	--	--	15,000	--	15,000
OU2MW-44I2	Cooper Lane Ext	--	--	--	--	--	2,800	--	2,800
OU2MW-44I	Cooper Lane Ext	--	--	--	--	--	700	--	700
OU2MW-44S	Cooper Lane Ext	--	--	--	--	--	640	--	640
OU2MW-45D	34 N Clinton	--	210	4,200	--	270	--	140	220
OU2MW-45I	34 N Clinton	--	240	220	--	960	--	290	20
OU2MW-45I2	34 N Clinton	--	460	3,800	--	13,000	--	6,700	240
OU2MW-45S	34 N Clinton	--	1,000	95	--	520	--	1,000	86
OU2MW-46I	34 N Clinton	--	7,600	13,000	--	2,900	--	360	110
OU2MW-46I2	34 N Clinton	--	3,300	14,000	--	180	--	20	32
OU2MW-46S	34 N Clinton	--	920	760	--	290	--	36	18
OU2MW-47D	34 N Clinton	--	84,000	89,100	--	360	--	125,400	640
OU2MW-47I	34 N Clinton	--	2,500	2,800	--	420	--	12,000	4
OU2MW-47I2	34 N Clinton	--	6,500	950	--	960	--	4,700	24
OU2MW-47S	34 N Clinton	--	560	17,000	--	480	--	1,600	75

Notes:

Cooper Lane Extension is part of the 33 North Clinton System
cfu/ml - colony forming units per milliliter
-- Not Sampled

Table 9
Soil Vapor Monitoring Locations Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Soil Vapor Point ID	Monitoring Frequency	Associated System
OU2SG-06	Quarterly	9 North Clinton/Montauk Hgway
<i>OU2SG-11</i>	<i>Targeted</i>	<i>NA</i>
<i>OU2SG-12</i>	<i>Targeted</i>	<i>34 North Clinton</i>
OU2SG-15	Quarterly	OU-1 Union Boulevard/33 North Clinton
OU2SG-16	Quarterly	Cooper Lane Ext.
OU2SG-17	Quarterly	Cooper Lane Ext.
OU2SG-18	Quarterly	Cooper Lane Ext.
<i>OU2SG-19</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2SG-20</i>	<i>Targeted</i>	<i>33 North Clinton</i>
OU2SG-21	Quarterly	33 North Clinton
<i>OU2SG-22</i>	<i>Targeted</i>	<i>34 North Clinton</i>
OU2SG-23	Quarterly	34 North Clinton/9 North Clinton
<i>OU2SG-24</i>	<i>Targeted</i>	<i>9 North Clinton</i>
<i>OU2SG-25</i>	<i>Targeted</i>	<i>9 N Clinton</i>
<i>OU2SG-26</i>	<i>Targeted</i>	<i>9 N Clinton</i>
<i>OU2SG-28</i>	<i>Targeted</i>	<i>33 North Clinton</i>
OU2SG-29	Quarterly	9 North Clinton
OU2SG-30	Quarterly	9 North Clinton
<i>OU2SG-31</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2SG-32</i>	<i>Targeted</i>	<i>33 North Clinton</i>
<i>OU2SG-33</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2SG-34</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2SG-35</i>	<i>Targeted</i>	<i>Cooper Lane Ext.</i>
<i>OU2SG-38</i>	<i>Targeted</i>	<i>34 North Clinton</i>
<i>OU2SG-39</i>	<i>Targeted</i>	<i>34 North Clinton</i>

Notes:

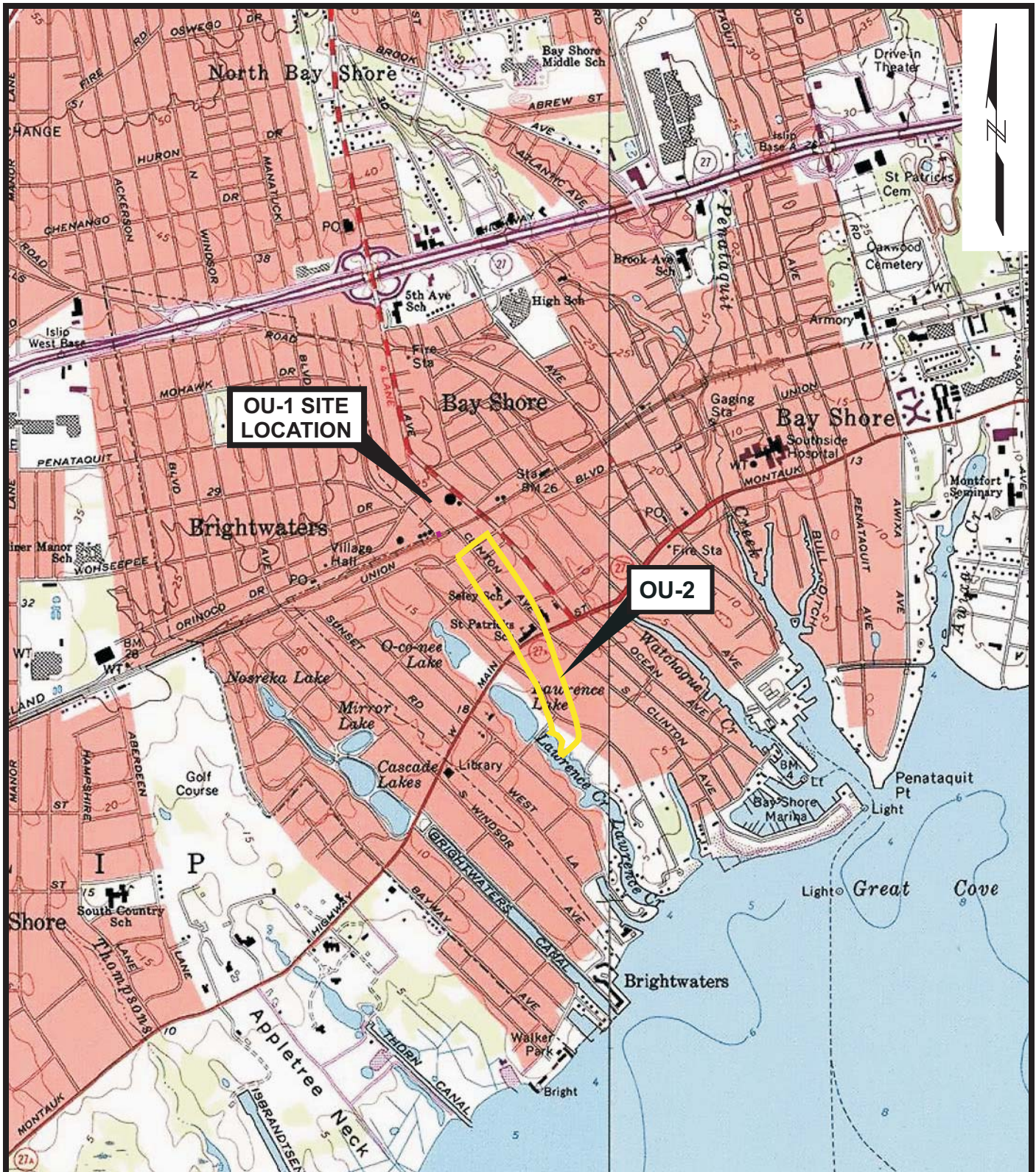
Soil vapor points which are bolded and italicized targeted soil vapor points.
Soil vapor point OU2SG-11 is not associated with an injection system and was targeted as a background or control sampling location.
Cooper Lane Extension is part of 33 North Clinton System.

Table 10
Groundwater Surface Elevation Summary
Plume Tail System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

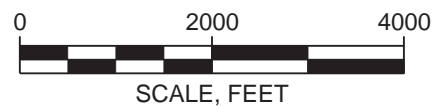
Well and Piezometer I.D.	Top of Casing Elevation (ft)	Tide	Time	7/27/2009		Time	8/17/2009		Time	9/9/2009	
				Depth to Water (ft)	Groundwater Elevation (ft)		Depth to Water (ft)	Groundwater Elevation (ft)		Depth to Water (ft)	Groundwater Elevation (ft)
Groundwater Monitoring Wells & Piezometers											
OU2MW-52S	5.80	Low	9:02	3.97	1.83	14:03	4.62	1.18	7:30	4.51	1.29
		High	15:14	3.64	2.16	7:39	4.26	1.54	13:28	3.99	1.81
OU2MW-53S	4.98	Low	9:18	3.08	1.90	14:08	4.02	0.96	7:36	4.06	0.92
		High	15:19	3.07	1.91	7:44	3.80	1.18	13:33	3.67	1.31
OU2PZ-01	5.42	Low	9:04	3.79	1.63	14:04	4.43	0.99	7:31	4.28	1.14
		High	15:16	3.42	2.00	7:40	4.00	1.42	13:29	3.72	1.70
OU2PZ-02	5.34	Low	9:06	3.69	1.65	14:06	4.38	0.96	7:34	4.23	1.11
		High	15:17	3.35	1.99	7:42	3.96	1.38	13:31	3.71	1.63
OU2PZ-03	5.39	Low	9:06	3.95	1.44	14:07	4.58	0.81	7:35	4.48	0.91
		High	15:18	3.53	1.86	7:43	4.16	1.23	13:32	3.83	1.56
OU2PZ-04	3.13	Low	9:05	2.03	1.10	14:05	2.56	0.57	7:33	2.42	0.71
		High	15:15	1.51	1.62	7:41	2.10	1.03	13:30	1.72	1.41

Note:
ft - Feet

Figures



SOURCE: Map created with TOPO! © 2001 National Geographic (www.nationalgeographic.com/topo)



**OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK**

nationalgrid

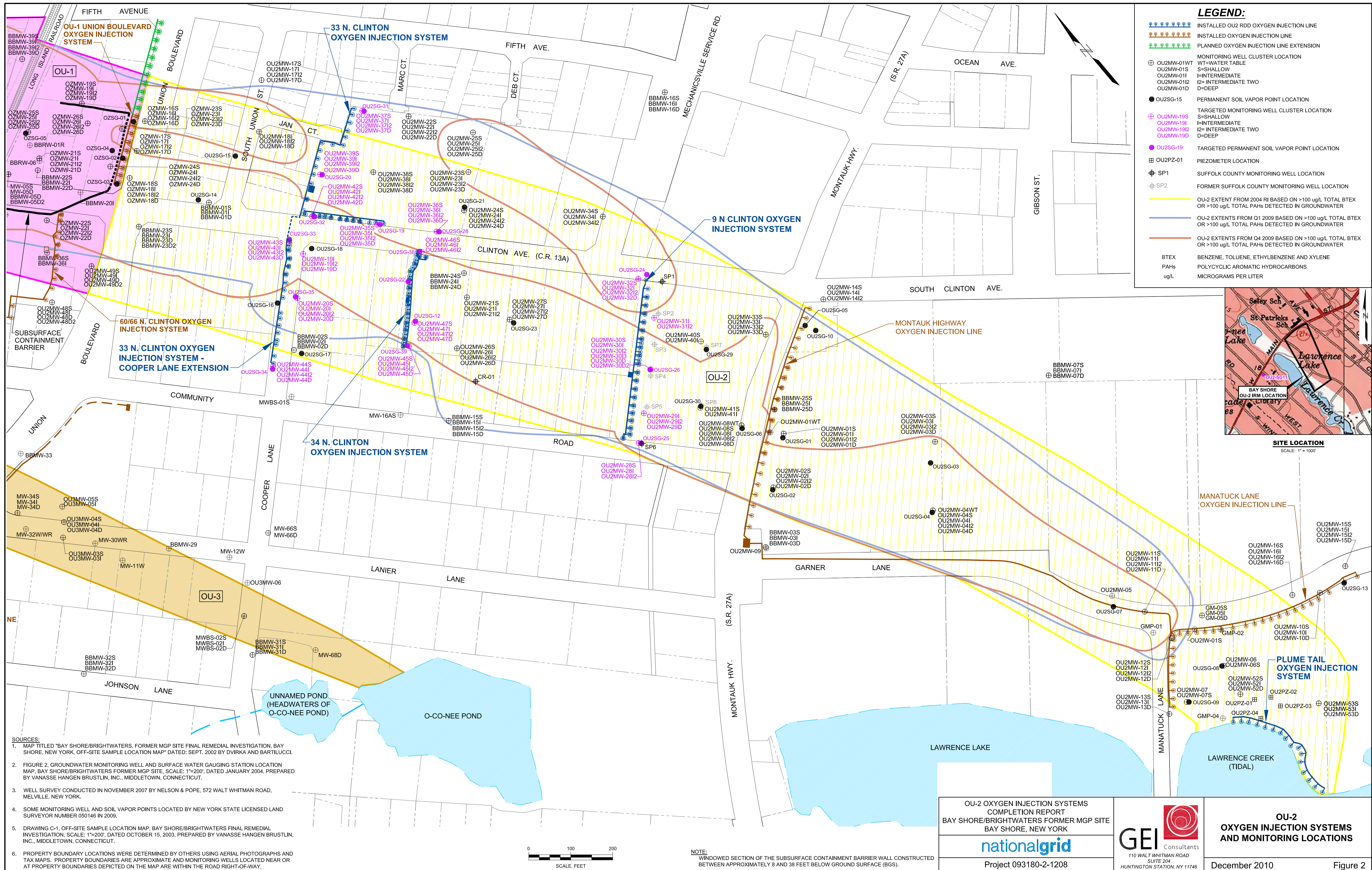


SITE LOCATION MAP

Project 093180-2-1208

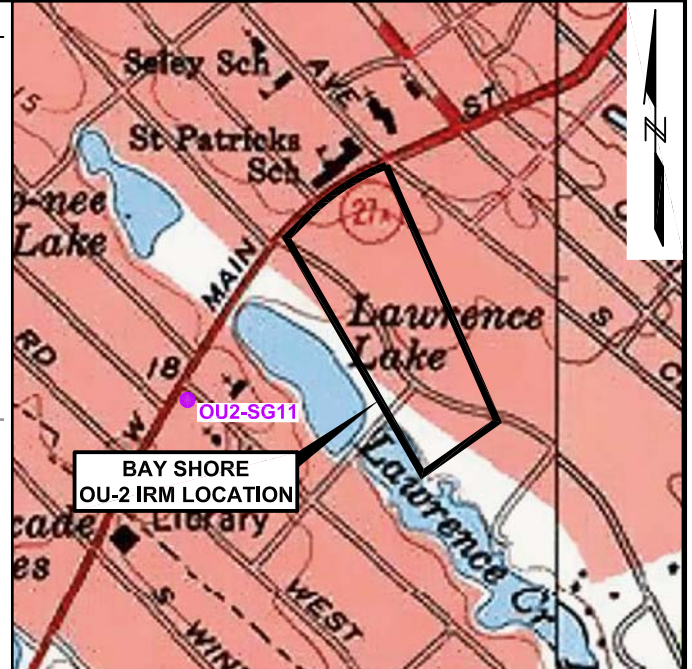
December 2010

Figure 1



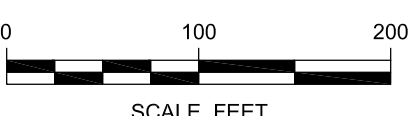
LEGEND:

- INSTALLED OU2 RDD OXYGEN INJECTION LINE
- INSTALLED OXYGEN INJECTION LINE
- PLANNED OXYGEN INJECTION LINE EXTENSION
- ⊕ MONITORING WELL CLUSTER LOCATION
- ⊕ OU2MW-01WT WT=WATER TABLE
- ⊕ OU2MW-01S S=SHALLOW
- ⊕ OU2MW-01I I=INTERMEDIATE
- ⊕ OU2MW-01I2 I2= INTERMEDIATE TWO
- ⊕ OU2MW-01D D=DEEP
- OU2SG-15 PERMANENT SOIL VAPOR POINT LOCATION
- ⊕ OU2MW-19S TARGETED MONITORING WELL CLUSTER LOCATION
- ⊕ OU2MW-19I I=INTERMEDIATE
- ⊕ OU2MW-19I2 I2= INTERMEDIATE TWO
- ⊕ OU2MW-19D D=DEEP
- OU2SG-19 TARGETED PERMANENT SOIL VAPOR POINT LOCATION
- ⊕ OU2PZ-01 PIEZOMETER LOCATION
- ⊕ SP1 SUFFOLK COUNTY MONITORING WELL LOCATION
- ⊕ SP2 FORMER SUFFOLK COUNTY MONITORING WELL LOCATION
- OU-2 EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- OU-2 EXTENTS FROM Q1 2009 BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- OU-2 EXTENTS FROM Q4 2009 BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ug/L MICROGRAMS PER LITER



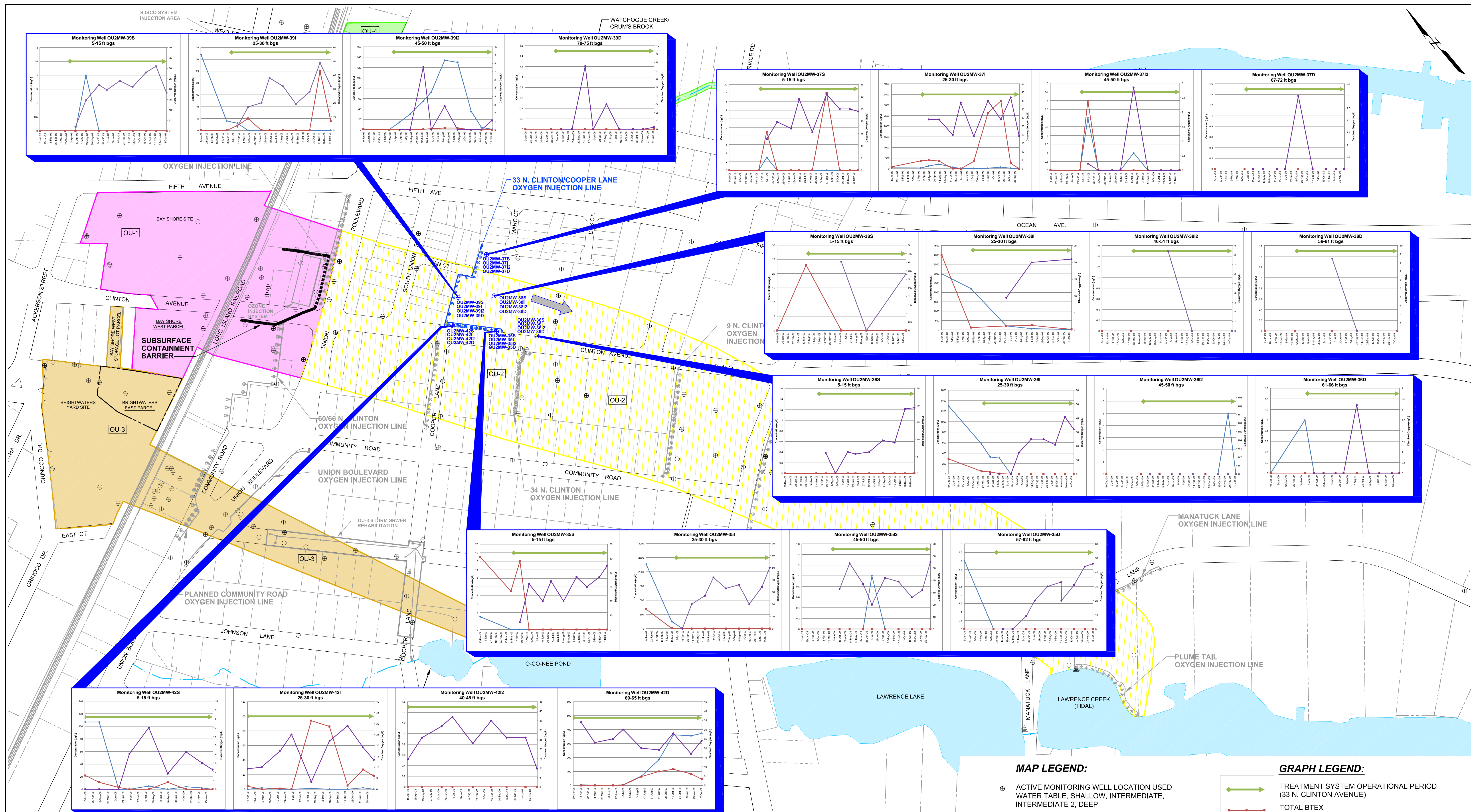
SITE LOCATION
SCALE: 1" = 1000'

- SOURCES:**
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
 3. WELL SURVEY CONDUCTED IN NOVEMBER 2007 BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
 4. SOME MONITORING WELL AND SOIL VAPOR POINTS LOCATED BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146 IN 2009.
 5. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
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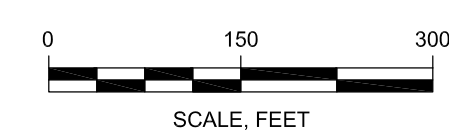
NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK		 GEI Consultants 110 WALT WHITMAN ROAD SUITE 204 HUNTINGTON STATION, NY 11746	OU-2 OXYGEN INJECTION SYSTEMS AND MONITORING LOCATIONS
 Project 093180-2-1208			December 2010 Figure 2



- SOURCES:**
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NOTE: WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).



MAP LEGEND:

- ⊕ ACTIVE MONITORING WELL LOCATION USED WATER TABLE, SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP
- ⊕ ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q4 2009 INFERRED PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

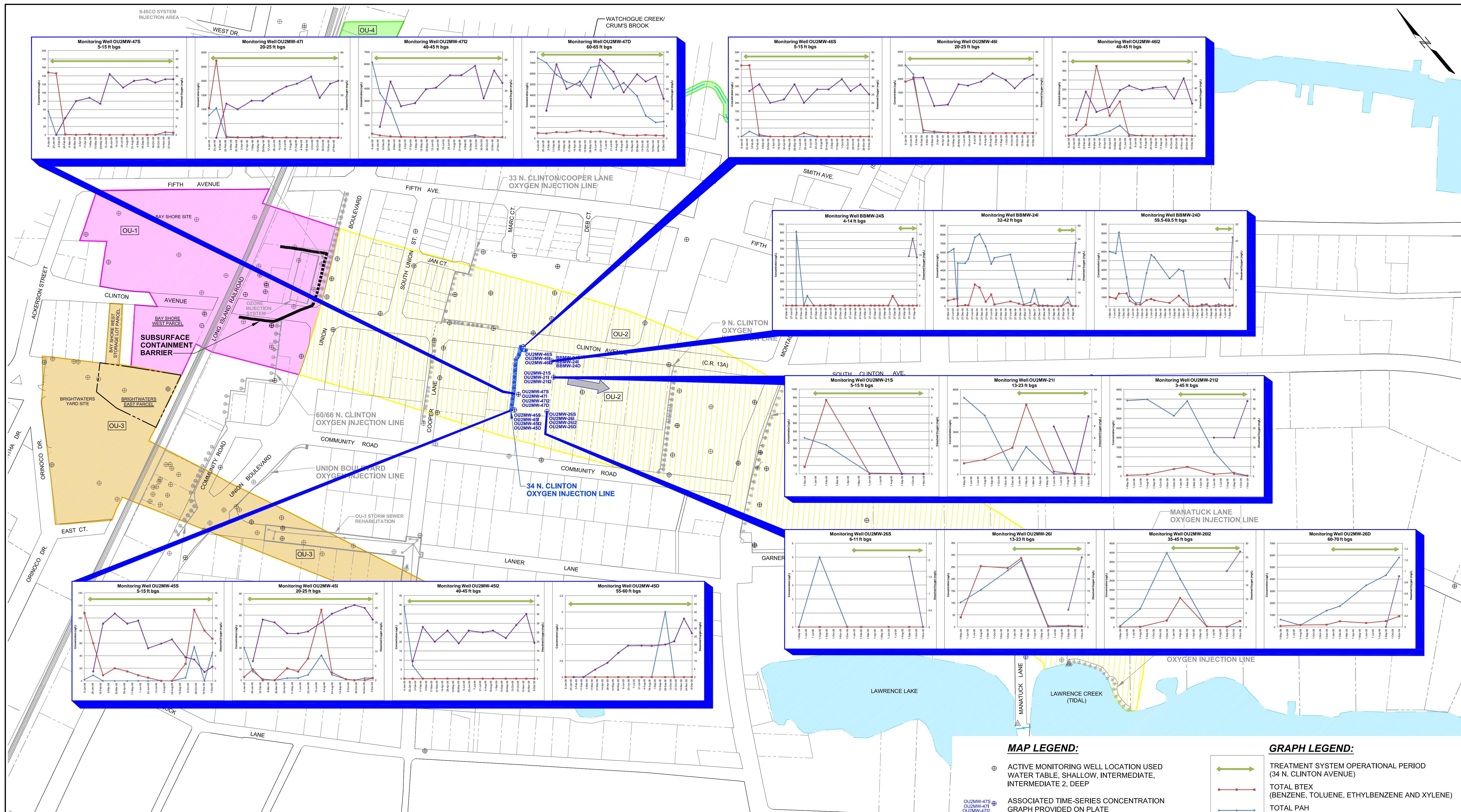
GRAPH LEGEND:

- TREATMENT SYSTEM OPERATIONAL PERIOD (33 N. CLINTON AVENUE)
- TOTAL BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
- DISSOLVED OXYGEN

OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT
 BAY SHORE/BRIGHTWATERS FORMER MGP SITE
 BAY SHORE, NEW YORK
nationalgrid
 Project 093180-2-1208

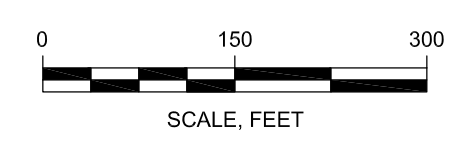
GEI Consultants
 110 WALT WHITMAN ROAD
 SUITE 204
 HUNTINGTON STATION, NY 11746

**33 N. CLINTON AVENUE
 OXYGEN INJECTION LINE
 ANALYTICAL GROUNDWATER DATA**
 December 2010 Figure 3



- SOURCES:**
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
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NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).



MAP LEGEND:

- ⊕ ACTIVE MONITORING WELL LOCATION USED WATER TABLE, SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP
- OU2MW-47S
OU2MW-47I
OU2MW-47J
OU2MW-47D
- ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q4 2009 INFERRED PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPH LEGEND:

- TREATMENT SYSTEM OPERATIONAL PERIOD (34 N. CLINTON AVENUE)
- TOTAL BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
- DISSOLVED OXYGEN

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

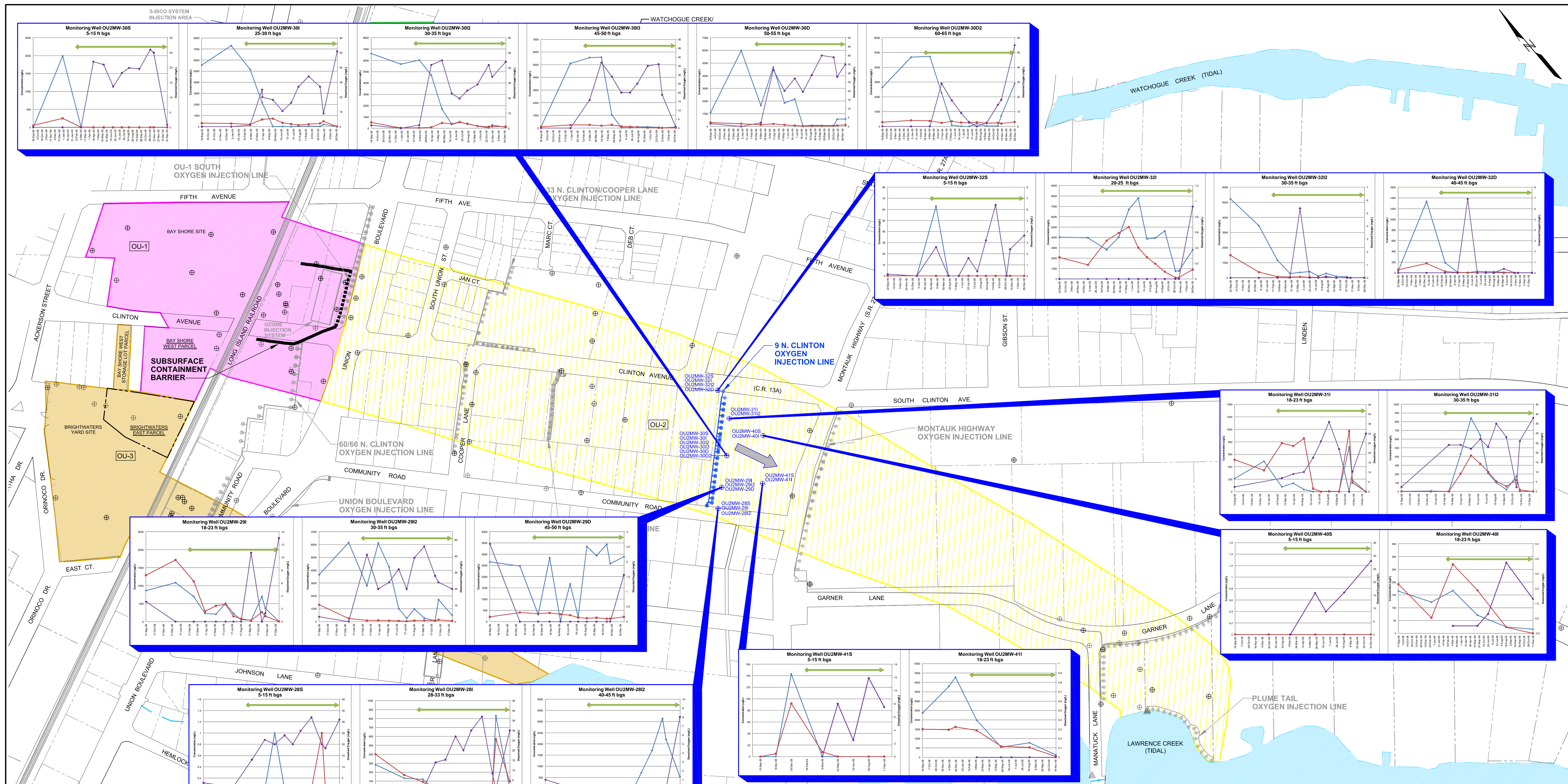
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HUNTINGTON STATION, NY 11746

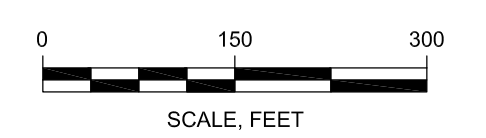
**34 N. CLINTON AVENUE
OXYGEN INJECTION LINE
ANALYTICAL GROUNDWATER DATA**

December 2010 Figure 4



- SOURCES:**
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
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NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).



- MAP LEGEND:**
- ⊕ ACTIVE MONITORING WELL LOCATION USED WATER TABLE, SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP
 - ⊕ ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
 - Q4 2009 INFERRED PLUME BOUNDARY
 - ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION

- GRAPH LEGEND:**
- TREATMENT SYSTEM OPERATIONAL PERIOD (9 N. CLINTON AVENUE)
 - TOTAL BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
 - TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
 - DISSOLVED OXYGEN

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

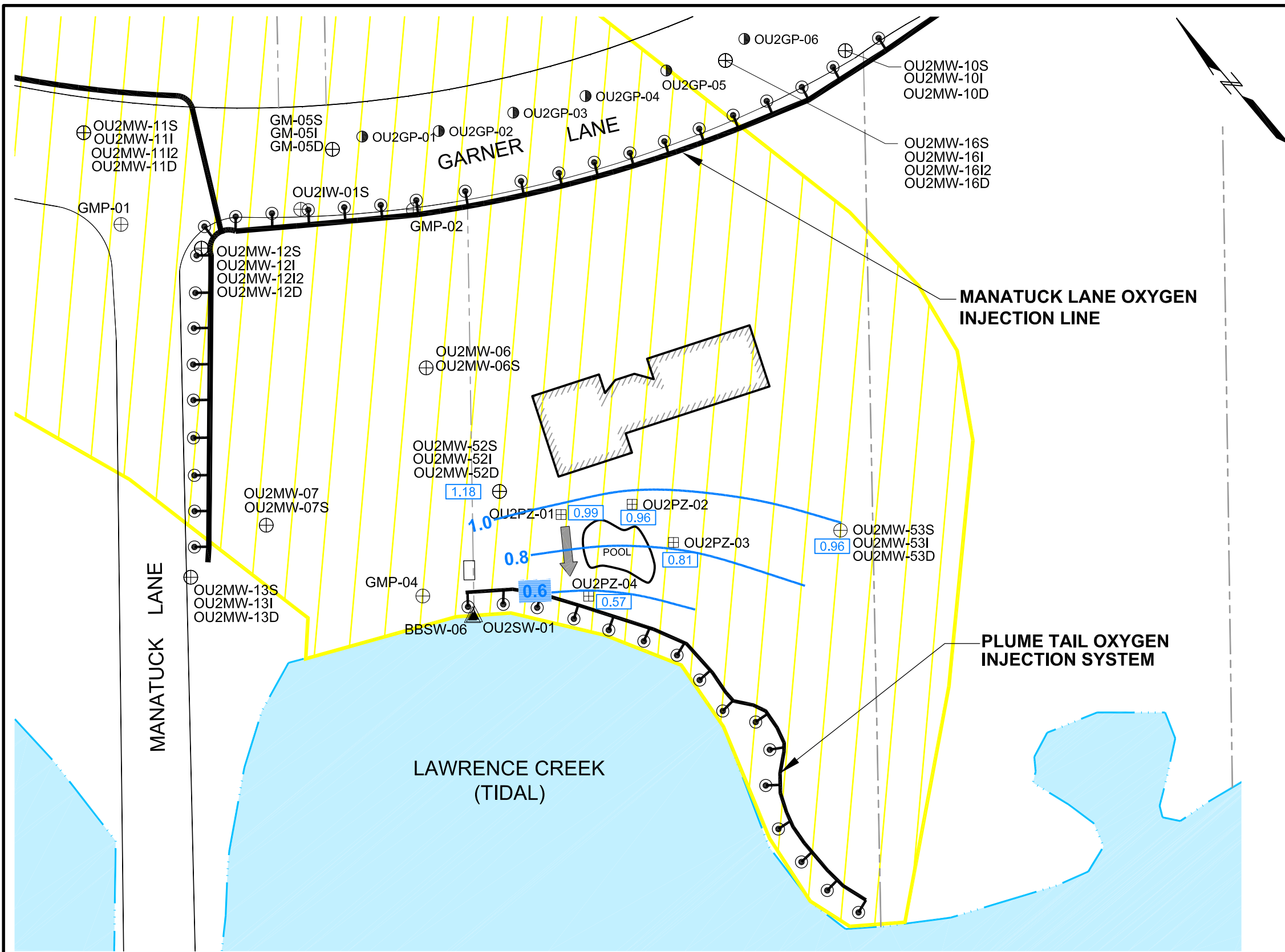
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Project 093180-2-1208

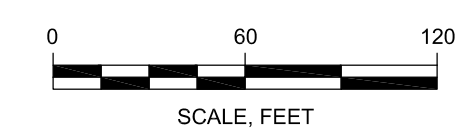


**9 N. CLINTON AVENUE
OXYGEN INJECTION LINE
ANALYTICAL GROUNDWATER DATA**

December 2010 Figure 5



LEGEND	
---	PROPERTY LINE
⊕	EXISTING MONITORING WELL CLUSTER LOCATION
S	SHALLOW
I	INTERMEDIATE
I2	INTERMEDIATE TWO
D	DEEP
⊞	PIEZOMETER LOCATION
1.0	GROUNDWATER LEVEL CONTOUR (FT)
→	GROUNDWATER FLOW DIRECTION
0.96	WATER TABLE ELEVATION (FT MSL)
MSL	MEAN SEA LEVEL
▨	PLUME EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER



- SOURCES:**
1. PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 2. WELL SURVEY CONDUCTED IN NOVEMBER 2007 BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
 3. OXYGEN INJECTION SYSTEM AND SOME MONITORING WELL AND SOIL VAPOR POINTS LOCATED BY NEW YORK STATE LICENSED SURVEYOR NUMBER 050146 IN 2009.
 4. PROPERTY BOUNDARY LOCATION IS APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

OU-2 OXYGEN INJECTION SYSTEMS
 COMPLETION REPORT
 BAY SHORE/BRIGHTWATERS FORMER MGP SITE
 BAY SHORE, NEW YORK

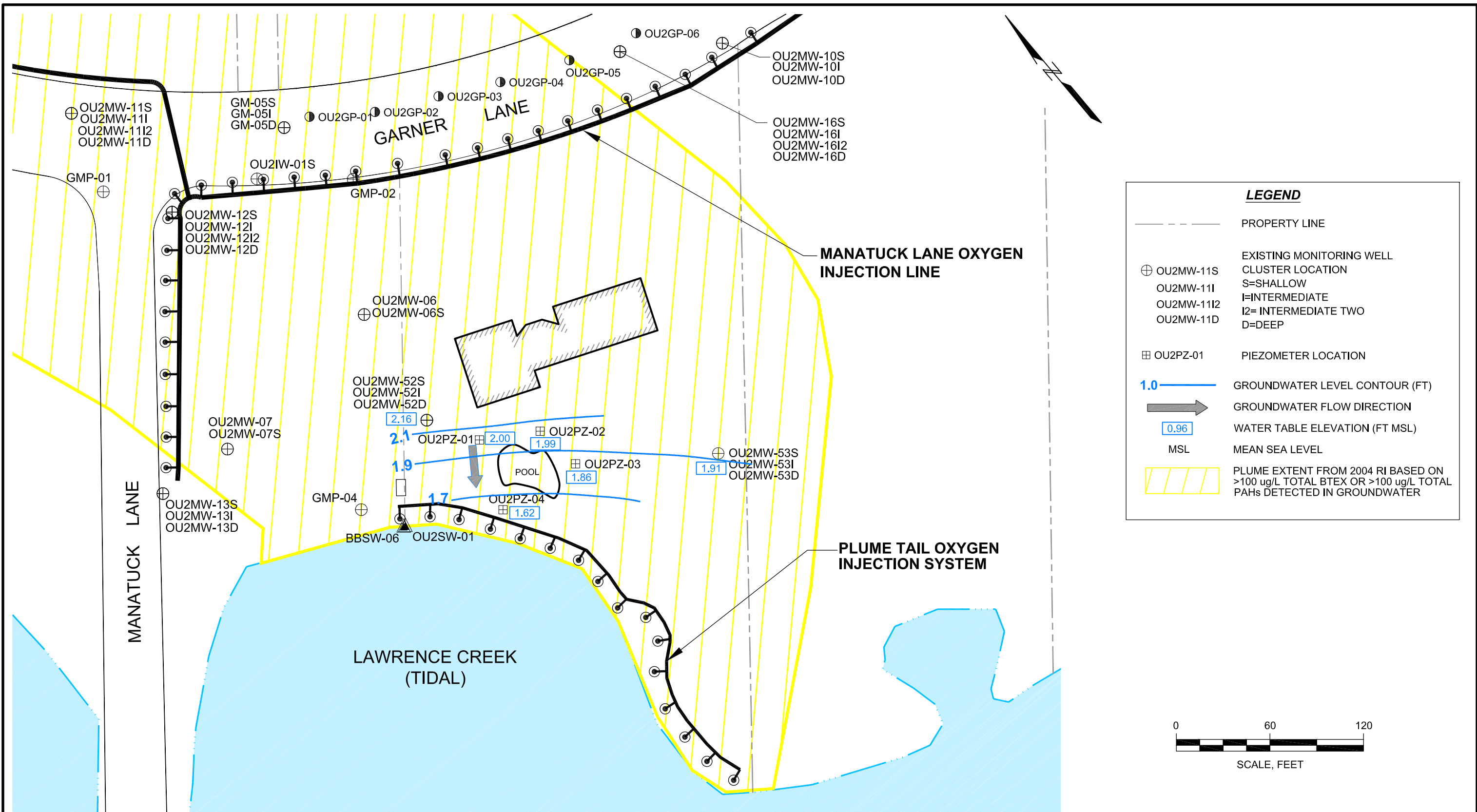
nationalgrid



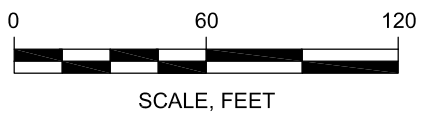
**PLUME TAIL SYSTEM
 GROUNDWATER CONTOUR MAP
 LOW TIDE - 8/17/09**

December 2010

Figure 6



LEGEND	
---	PROPERTY LINE
⊕	EXISTING MONITORING WELL CLUSTER LOCATION
S	SHALLOW
I	INTERMEDIATE
I2	INTERMEDIATE TWO
D	DEEP
⊞	PIEZOMETER LOCATION
1.0	GROUNDWATER LEVEL CONTOUR (FT)
→	GROUNDWATER FLOW DIRECTION
0.96	WATER TABLE ELEVATION (FT MSL)
MSL	MEAN SEA LEVEL
Yellow hatched box	PLUME EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER



- SOURCES:**
1. PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 2. WELL SURVEY CONDUCTED IN NOVEMBER 2007 BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
 3. OXYGEN INJECTION SYSTEM AND SOME MONITORING WELL AND SOIL VAPOR POINTS LOCATED BY NEW YORK STATE LICENSED SURVEYOR NUMBER 050146 IN 2009.
 4. PROPERTY BOUNDARY LOCATION IS APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid



**PLUME TAIL SYSTEM
GROUNDWATER CONTOUR MAP
HIGH TIDE - 7/27/09**

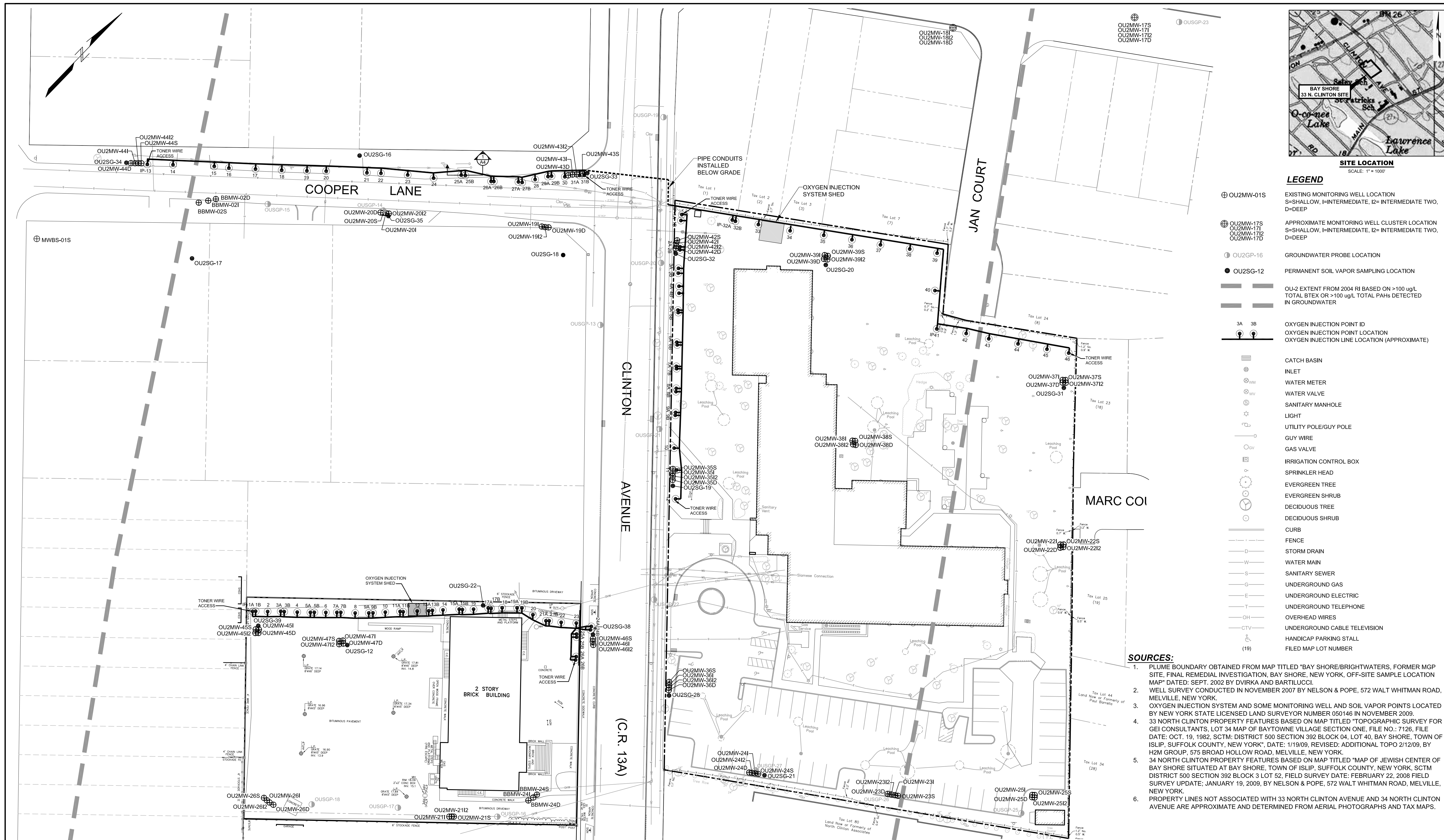
Project 093180-2-1208 December 2010 Figure 7

Appendices (electronic only)

- A 33 North Clinton System Installation Drawings, Property Survey, and Photo Log
- B 34 North Clinton System Installation Drawings, Record Drawings and Photo Log
- C 9 North Clinton Avenue System Installation Drawings, Record Drawings and Photo Log
- D Plume Tail System Installation Drawings, Record Drawing, and Photo Log
- E Approved Permits
- F Monitoring Well Installation Analytical Soil Data
- G Monitoring Well Boring Logs
- H Monitoring Well Decommissioning Logs
- I Soil Density Testing Data and Waste Manifests
- J Operation, Maintenance, and Monitoring Data
- K Analytical Groundwater Data
- L Soil Vapor Data

Appendix A

33 North Clinton System Installation Drawings, Property Survey, and Photo Log

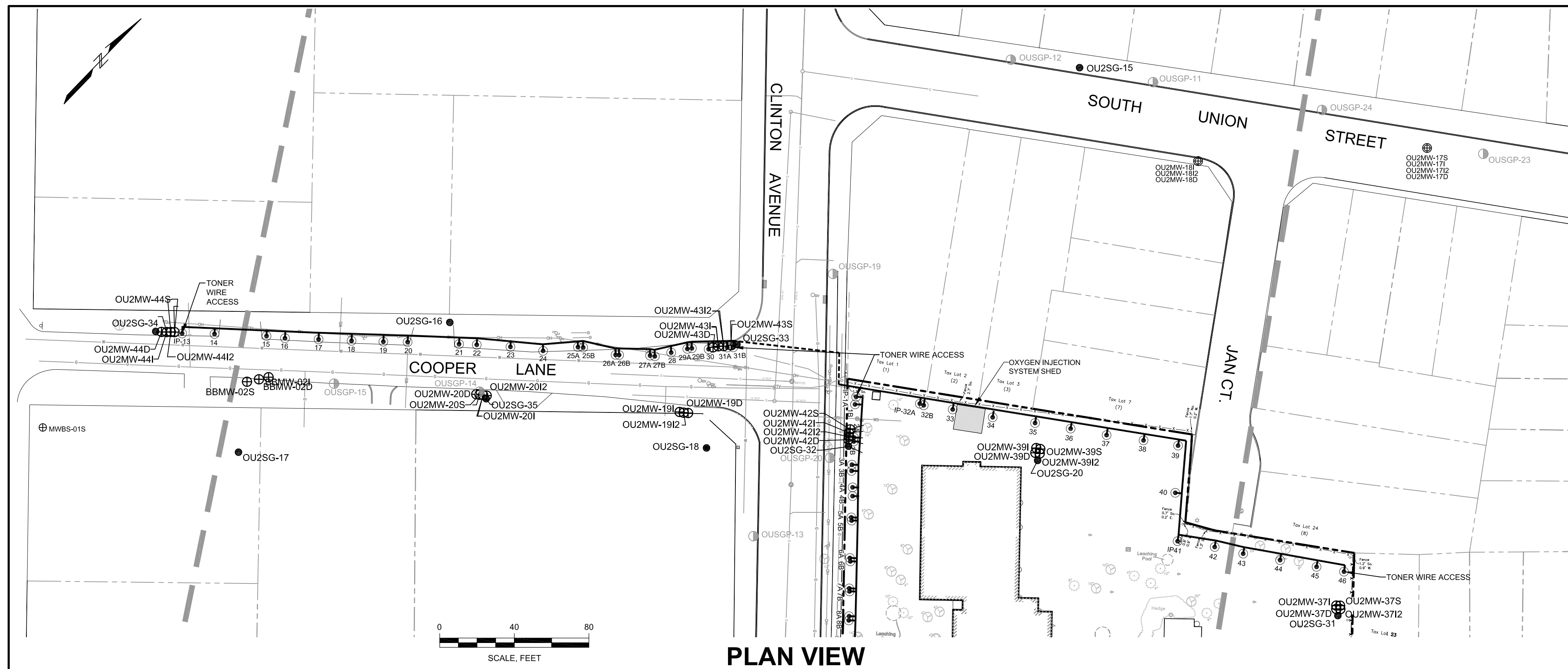


- LEGEND**
- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
 - ⊕ OU2MW-17S, OU2MW-17I, OU2MW-17I2, OU2MW-17D APPROXIMATE MONITORING WELL CLUSTER LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
 - ⊙ OU2GP-16 GROUNDWATER PROBE LOCATION
 - OU2SG-12 PERMANENT SOIL VAPOR SAMPLING LOCATION
 - OU-2 EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
 - 3A 3B OXYGEN INJECTION POINT ID
⊕ OXYGEN INJECTION POINT LOCATION
— OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
 - ▭ CATCH BASIN
 - ⊕ INLET
 - ⊕ WM WATER METER
 - ⊕ WV WATER VALVE
 - ⊕ SM SANITARY MANHOLE
 - ⊕ LIGHT
 - ⊕ UP UTILITY POLE/GUY POLE
 - ⊕ GW GUY WIRE
 - ⊕ GV GAS VALVE
 - ⊕ ICB IRRIGATION CONTROL BOX
 - ⊕ SH SPRINKLER HEAD
 - ⊕ ET EVERGREEN TREE
 - ⊕ ES EVERGREEN SHRUB
 - ⊕ DT DECIDUOUS TREE
 - ⊕ DS DECIDUOUS SHRUB
 - CURB
 - FENCE
 - SD STORM DRAIN
 - WM WATER MAIN
 - SS SANITARY SEWER
 - UG UNDERGROUND GAS
 - UE UNDERGROUND ELECTRIC
 - UT UNDERGROUND TELEPHONE
 - OW OVERHEAD WIRES
 - CTV UNDERGROUND CABLE TELEVISION
 - HS HANDICAP PARKING STALL
 - (19) FILED MAP LOT NUMBER

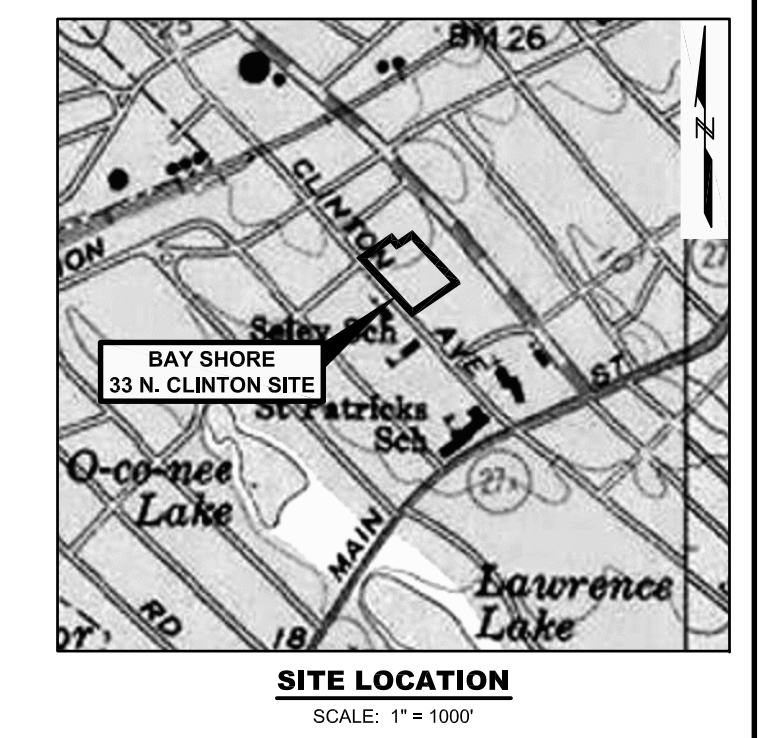
- SOURCES:**
- PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 - WELL SURVEY CONDUCTED IN NOVEMBER 2007 BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
 - OXYGEN INJECTION SYSTEM AND SOME MONITORING WELL AND SOIL VAPOR POINTS LOCATED BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146 IN NOVEMBER 2009.
 - 33 NORTH CLINTON PROPERTY FEATURES BASED ON MAP TITLED "TOPOGRAPHIC SURVEY FOR GEI CONSULTANTS, LOT 34 MAP OF BAYTOWNE VILLAGE SECTION ONE, FILE NO.: 7126, FILE DATE: OCT. 19, 1982, SCTM; DISTRICT 500 SECTION 392 BLOCK 04, LOT 40, BAY SHORE, TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK," DATE: 1/19/09, REVISED: ADDITIONAL TOPO 2/12/09, BY H2M GROUP, 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK.
 - 34 NORTH CLINTON PROPERTY FEATURES BASED ON MAP TITLED "MAP OF JEWISH CENTER OF BAY SHORE SITUATED AT BAY SHORE, TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK, SCTM DISTRICT 500 SECTION 392 BLOCK 3 LOT 52, FIELD SURVEY DATE: FEBRUARY 22, 2008 FIELD SURVEY UPDATE: JANUARY 19, 2009, BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
 - PROPERTY LINES NOT ASSOCIATED WITH 33 NORTH CLINTON AVENUE AND 34 NORTH CLINTON AVENUE ARE APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

- NOTES:**
- UNDERGROUND, OVERHEAD AND GROUND LEVEL UTILITIES ARE NOT GUARANTEED AS TO ACCURACY, EXISTENCE, EXACT LOCATION, TYPE OR USE, ACTIVE OR INACTIVE. VERIFICATION IS MANDATORY WITH MUNICIPAL AGENCIES AND/OR PUBLIC OR PRIVATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
 - RECORDED EASEMENTS OR RIGHTS-OF-WAY, IF ANY, NOT SHOWN ARE NOT CERTIFIED.
 - APPROXIMATE LOCATIONS OF INJECTION POINTS 21, 28, AND 33 AND SOIL VAPOR POINTS OU2SG-19, OU2SG-20, OU2SG-21, OU2SG-28, OU2SG-31, AND OU2SG-32 ARE SHOWN.

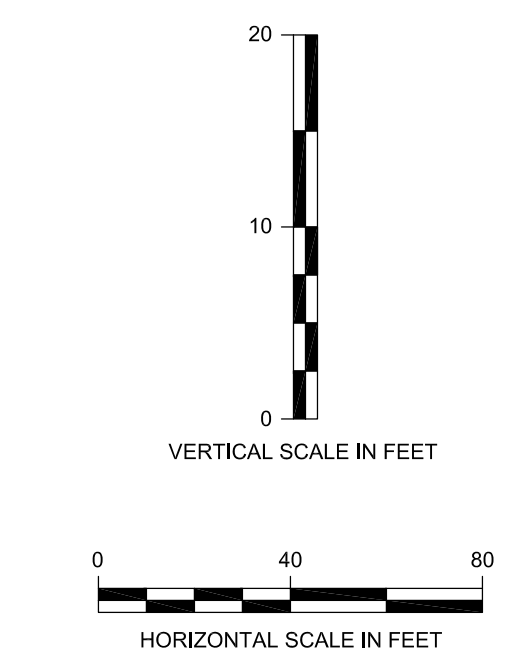
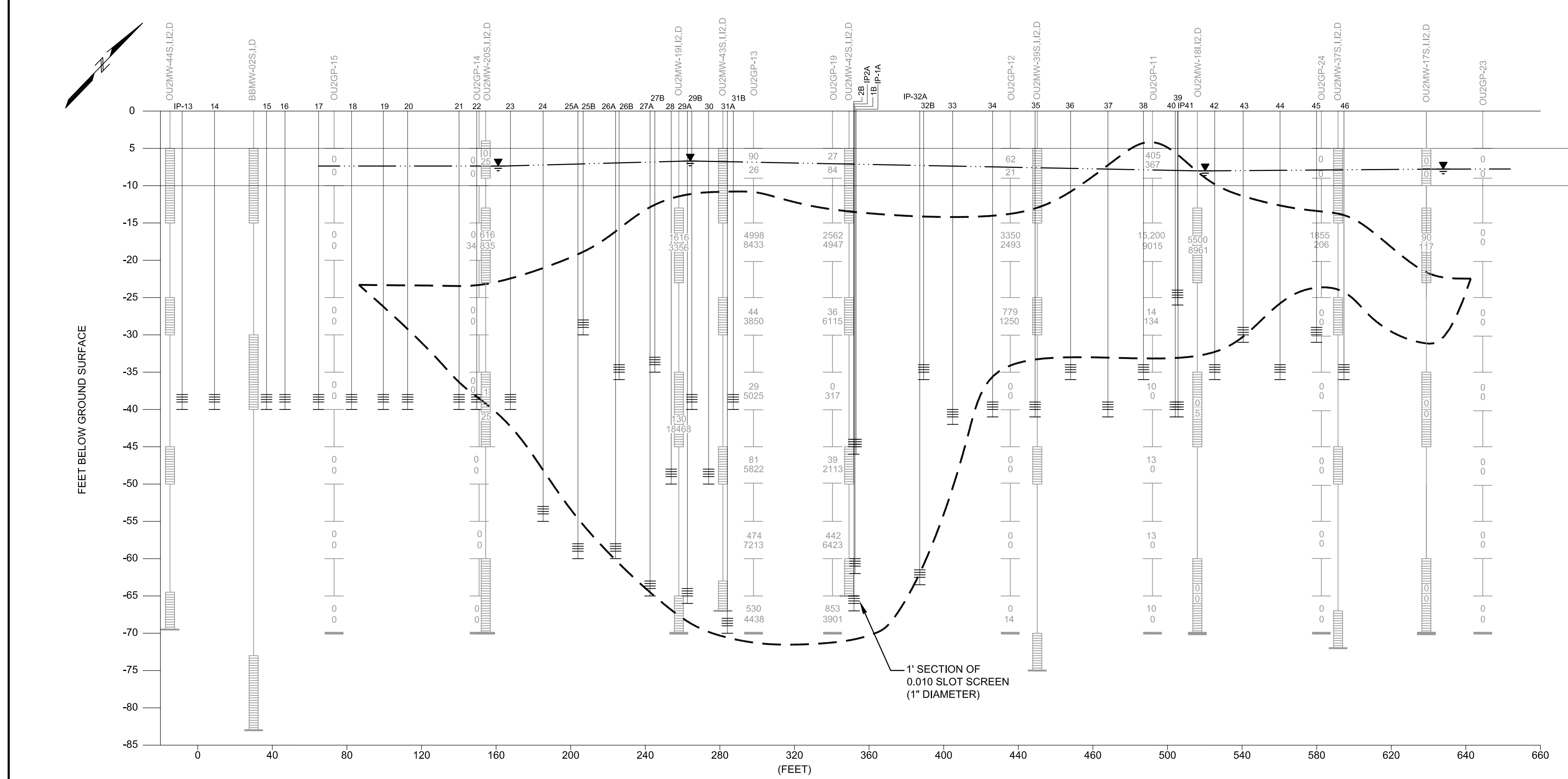
OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK		 GEI Consultants 110 WALT WHITMAN ROAD SUITE 204 HUNTINGTON STATION, NY 11746	33 N. CLINTON OXYGEN INJECTION SYSTEM LOCATION
 Project 093180-2-1208			December 2010 Figure A1



INJECTION POINT	ASSOCIATED SYSTEM	SCREENED INTERVAL (feet bgs)	FILTER PACK (feet bgs)	BENTONITE SEAL (feet bgs)	TOTAL DEPTH (feet bgs)
IP-13	Cooper Lane Ext	38-39	36-40	34-36	40
IP-14	Cooper Lane Ext	38-39	36-40	34-36	40
IP-15	Cooper Lane Ext	38-39	36-40	34-36	40
IP-16	Cooper Lane Ext	38-39	36-40	34-36	40
IP-17	Cooper Lane Ext	38-39	36-40	34-36	40
IP-18	Cooper Lane Ext	38-39	36-40	34-36	40
IP-19	Cooper Lane Ext	38-39	36-40	34-36	40
IP-20	Cooper Lane Ext	38-39	36-40	34-36	40
IP-21	Cooper Lane Ext	38-39	36-40	34-36	40
IP-22	Cooper Lane Ext	38-39	36-40	34-36	40
IP-23	Cooper Lane Ext	38-39	36-40	34-36	40
IP-24	Cooper Lane Ext	53-54	51-55	49-51	55
IP-25A	Cooper Lane Ext	58-59	56-60	54-56	60
IP-25B	Cooper Lane Ext	28-29	26-30	24-26	30
IP-26A	Cooper Lane Ext	58-59	56-60	54-56	60
IP-26B	Cooper Lane Ext	34-35	32-36	30-32	36
IP-27A	Cooper Lane Ext	63-64	61-65	59-61	65
IP-27B	Cooper Lane Ext	33-34	31-35	29-31	35
IP-28	Cooper Lane Ext	48-49	46-50	44-46	50
IP-29A	Cooper Lane Ext	64-65	62-66	60-62	66
IP-29B	Cooper Lane Ext	38-39	36-40	34-36	40
IP-30	33 N Clinton	48-49	46-50	44-46	50
IP-31A	33 N Clinton	68-69	66-70	64-66	70
IP-31B	33 N Clinton	38-39	36-40	34-36	40
IP-32A	33 N Clinton	61.5-62.5	59.5-63.5	57.5-59.5	63.5
IP-32B	33 N Clinton	34-35	32-36	30-32	36
IP-33	33 N Clinton	40-41	38-42	36-38	42
IP-34	33 N Clinton	39-40	37-41	35-37	41
IP-35	33 N Clinton	39-40	37-41	35-37	41
IP-36	33 N Clinton	34-35	32-36	30-32	36
IP-37	33 N Clinton	39-40	37-41	35-37	41
IP-38	33 N Clinton	34-35	32-36	30-32	36
IP-39	33 N Clinton	24-25	22-26	20-22	26
IP-40	33 N Clinton	39-40	37-41	35-37	41
IP-41	33 N Clinton	39-40	37-41	35-37	41
IP-42	33 N Clinton	34-35	32-36	30-32	36
IP-43	33 N Clinton	29-30	27-31	25-27	31
IP-44	33 N Clinton	34-35	32-36	30-32	36
IP-45	33 N Clinton	29-30	27-31	25-27	31
IP-46	33 N Clinton	34-35	32-36	30-32	36



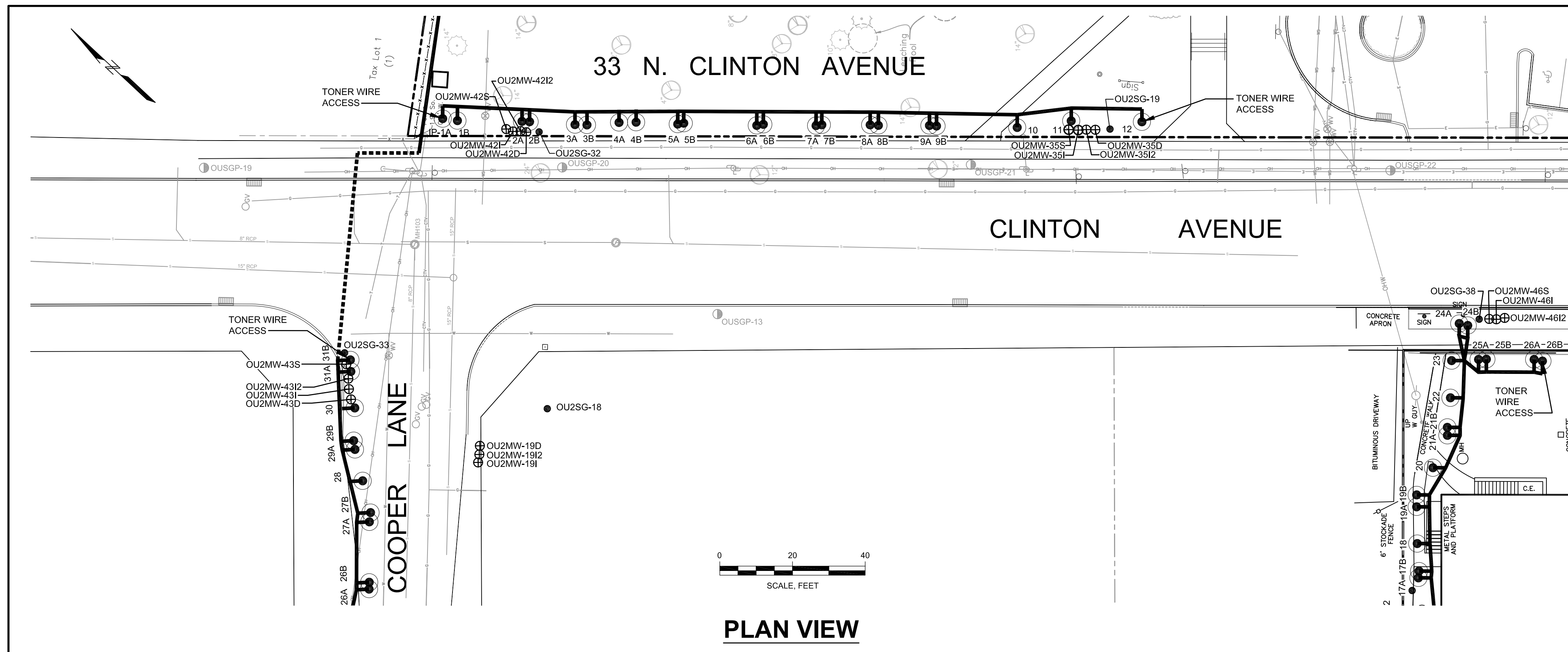
- LEGEND**
- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
 - ⊕ OU2MW-17S, OU2MW-17I, OU2MW-17I2, OU2MW-17D APPROXIMATE MONITORING WELL CLUSTER LOCATION
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 - OU2SG-12 PERMANENT SOIL VAPOR SAMPLING LOCATION
 - ☐ CATCH BASIN
 - ⊙ INLET
 - ⊙ WM WATER METER
 - ⊙ WV WATER VALVE
 - ⊙ SMH SANITARY MANHOLE
 - ⊙ LIGHT
 - ⊙ UPG UTILITY POLE/GUY POLE
 - ⊙ GW GUY WIRE
 - ⊙ GV GAS VALVE
 - ⊙ SPRINKLER HEAD
 - ⊙ EVERGREEN TREE
 - ⊙ EVERGREEN SHRUB
 - ⊙ DECIDUOUS TREE
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 - FENCE
 - D STORM DRAIN
 - W WATER MAIN
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 - G UNDERGROUND GAS
 - E UNDERGROUND ELECTRIC
 - T UNDERGROUND TELEPHONE
 - OH OVERHEAD WIRES
 - CTV UNDERGROUND CABLE TELEVISION



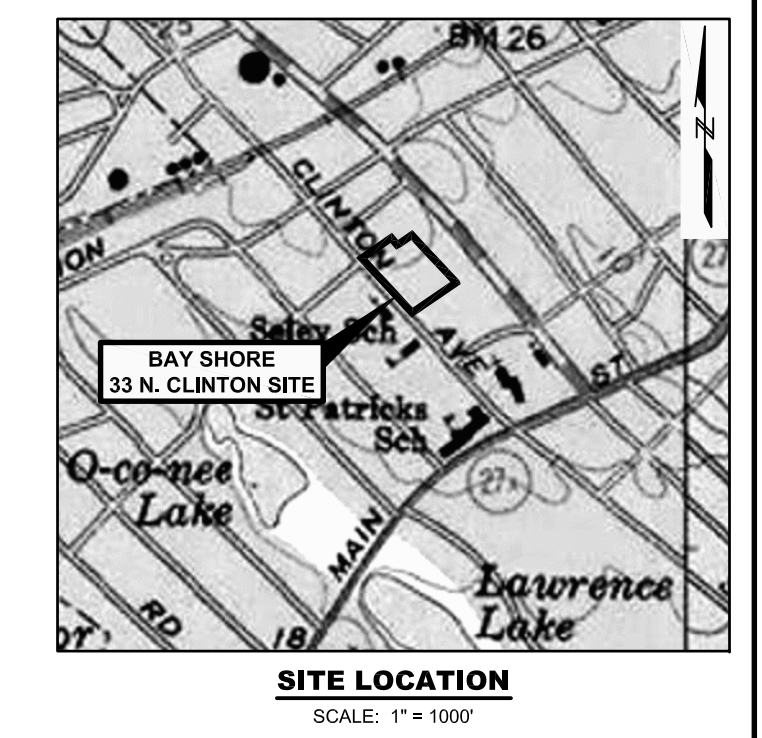
- SECTION VIEW LEGEND**
- ⊕ EXISTING MONITORING WELL OR MONITORING POINT ID
 - ⊙ EXISTING MONITORING WELL OR MONITORING POINT LOCATION
 - TOTAL BTEX ug/L
 - TOTAL PAH ug/L
 - WATER LEVEL
 - MONITORING WELL SAMPLE INTERVAL
 - END OF BORING/WELL
 - TOTAL BTEX AND PAHS ≥ 100 ug/L
 - BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
 - PAHs POLYCYCLIC AROMATIC HYDROCARBONS
 - ug/L MICROGRAMS PER LITER
 - IP-1A OXYGEN INJECTION POINT ID
 - ⊙ OXYGEN INJECTION POINT LOCATION
 - ⊙ 0.010 SLOT SCREEN (1" DIAMETER)

NOTE:
 1. GROUNDWATER DATA SHOWN REFLECTS THE DESIGN DATA SET AND INCLUDES:
 • GROUNDWATER PROBE DATA COLLECTED QUARTER 4, 2007 AND QUARTER 1, 2008 BY GEI CONSULTANTS, INC.
 • MONITORING WELL DATA COLLECTED QUARTER 2, 2008 BY GEI CONSULTANTS, INC.

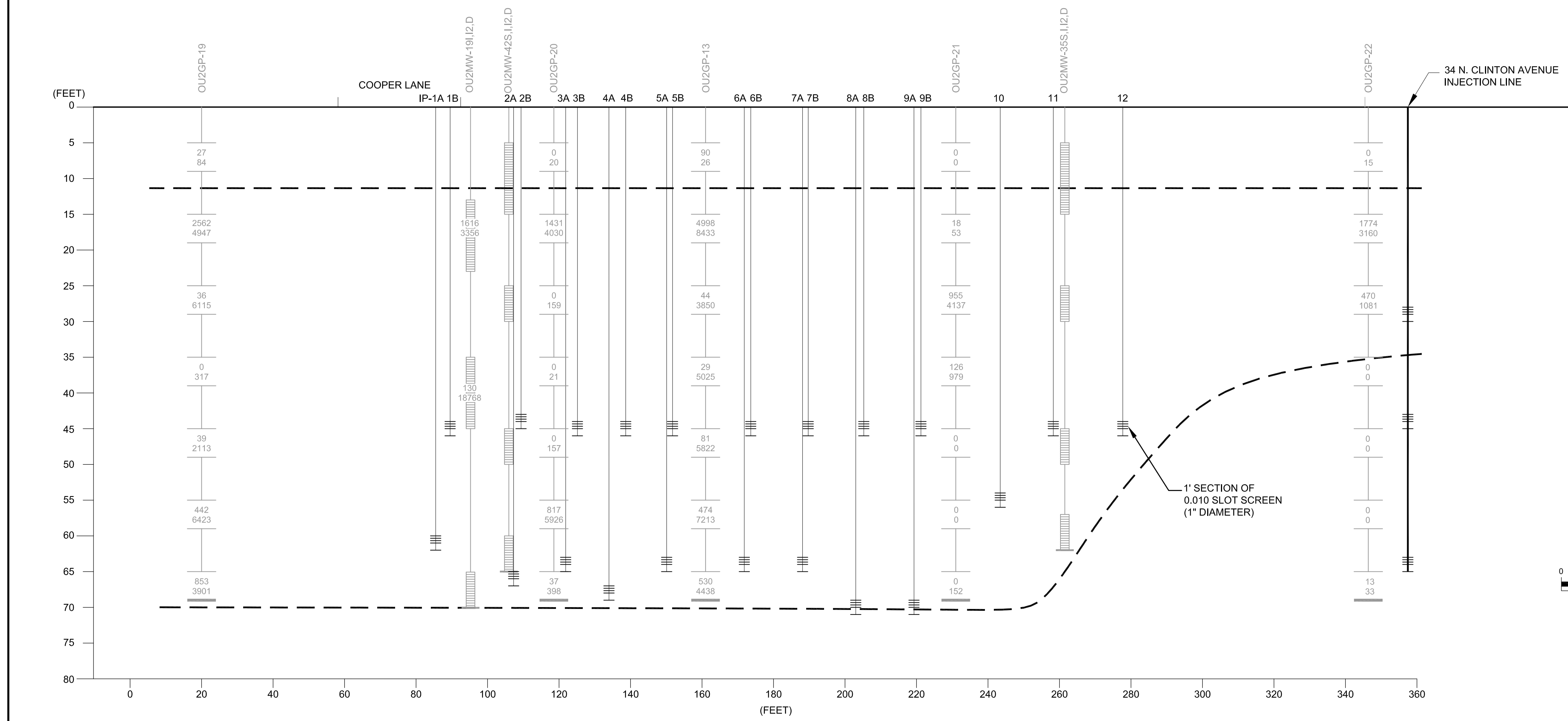
OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK		 110 WALT WHITMAN ROAD SUITE 204 HUNTINGTON STATION, NY 11746	33 N. CLINTON OXYGEN INJECTION SYSTEM PLAN AND PROFILE	
 Project 093180-2-1208			December 2010	Figure A2



INJECTION POINT	ASSOCIATED SYSTEM	SCREENED INTERVAL (feet bgs)	FILTER PACK (feet bgs)	BENTONITE SEAL (feet bgs)	TOTAL DEPTH (feet bgs)
IP-1A	33 N Clinton	60-61	58-62	56-58	62
IP-1B	33 N Clinton	44-45	42-46	40-42	46
IP-2A	33 N Clinton	65-66	63-67	61-63	67
IP-2B	33 N Clinton	44-45	42-46	40-42	46
IP-3A	33 N Clinton	63-64	61-65	59-61	65
IP-3B	33 N Clinton	44-45	42-46	40-42	46
IP-4A	33 N Clinton	67-68	65-69	63-65	69
IP-4B	33 N Clinton	44-45	42-46	40-42	46
IP-5A	33 N Clinton	63-64	61-65	59-61	65
IP-5B	33 N Clinton	44-45	42-46	40-42	46
IP-6A	33 N Clinton	63-64	61-65	59-61	65
IP-6B	33 N Clinton	44-45	42-46	40-42	46
IP-7A	33 N Clinton	63-64	61-65	59-61	65
IP-7B	33 N Clinton	44-45	42-46	40-42	46
IP-8A	33 N Clinton	69-70	67-71	65-67	71
IP-8B	33 N Clinton	44-45	42-46	40-42	46
IP-9A	33 N Clinton	69-70	67-71	65-67	71
IP-9B	33 N Clinton	44-45	42-46	40-42	46
IP-10	33 N Clinton	54-55	52-56	50-52	56
IP-11	33 N Clinton	44-45	42-46	40-42	46
IP-12	33 N Clinton	44-45	42-46	40-42	46



- LEGEND**
- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
 - OU2GP-16 GROUNDWATER PROBE LOCATION
 - OU2SG-12 PERMANENT SOIL VAPOR SAMPLING LOCATION
 - ▭ CATCH BASIN
 - ⊕ INLET
 - ⊕_{WM} WATER METER
 - ⊕_{WV} WATER VALVE
 - ⊕_{SM} SANITARY MANHOLE
 - ⊕ LIGHT
 - ⊕_{UP} UTILITY POLE/GUY POLE
 - GUY WIRE
 - ⊕_{GV} GAS VALVE
 - ⊕ SPRINKLER HEAD
 - ⊕ EVERGREEN TREE
 - ⊕ EVERGREEN SHRUB
 - ⊕ DECIDUOUS TREE
 - CURB
 - FENCE
 - D STORM DRAIN
 - W WATER MAIN
 - S SANITARY SEWER
 - G UNDERGROUND GAS
 - E UNDERGROUND ELECTRIC
 - T UNDERGROUND TELEPHONE
 - OH OVERHEAD WIRES
 - CTV UNDERGROUND CABLE TELEVISION



- SECTION VIEW LEGEND**
- ⊕ EXISTING MONITORING WELL OR MONITORING POINT ID
 - EXISTING MONITORING WELL OR MONITORING POINT LOCATION
 - TOTAL BTEX ug/L
 - TOTAL PAH ug/L
 - WATER LEVEL
 - MONITORING WELL SAMPLE INTERVAL
 - END OF BORING/WELL
 - TOTAL BTEX AND PAHs ≥ 100 ug/L
 - BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
 - PAHs POLYCYCLIC AROMATIC HYDROCARBONS
 - ug/L MICROGRAMS PER LITER
 - IP-1A OXYGEN INJECTION POINT ID
 - OXYGEN INJECTION POINT LOCATION
 - 0.010 SLOT SCREEN (1" DIAMETER)

NOTE:
 1. GROUNDWATER DATA SHOWN REFLECTS THE DESIGN DATA SET AND INCLUDES:
 • GROUNDWATER PROBE DATA COLLECTED QUARTER 4, 2007 AND QUARTER 1, 2008 BY GEI CONSULTANTS, INC.
 • MONITORING WELL DATA COLLECTED QUARTER 2, 2008 BY GEI CONSULTANTS, INC.

OU-2 OXYGEN INJECTION SYSTEMS
 COMPLETION REPORT
 BAY SHORE/BRIGHTWATERS FORMER MGP SITE
 BAY SHORE, NEW YORK

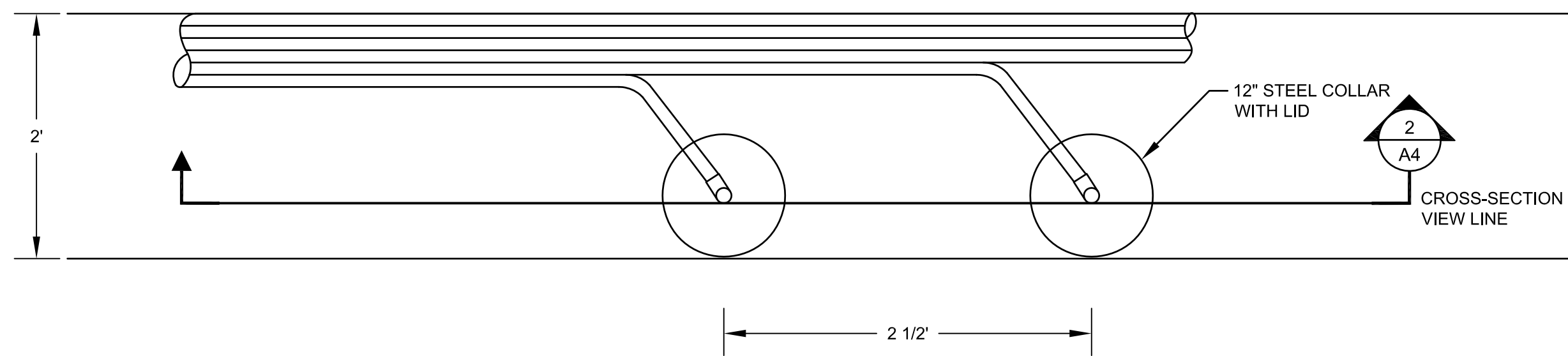
nationalgrid

Project 093180-2-1208

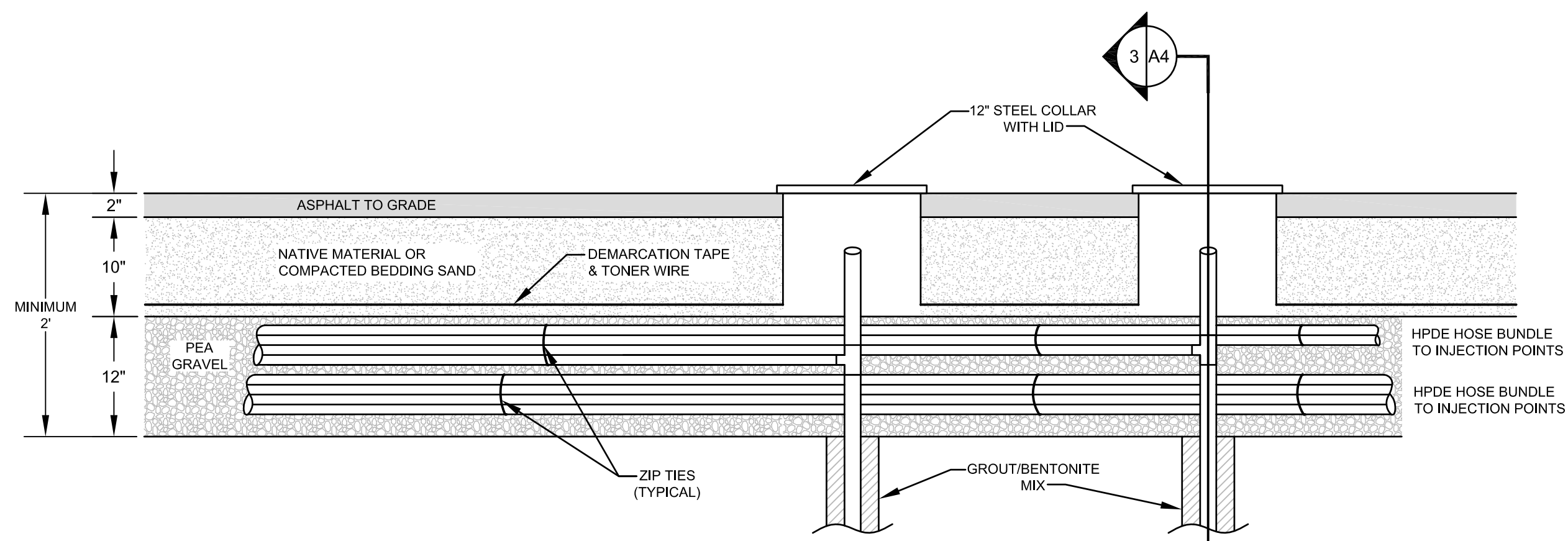
GEI Consultants
 110 WALT WHITMAN ROAD
 SUITE 204
 HUNTINGTON STATION, NY 11746

**33 N. CLINTON
 OXYGEN INJECTION SYSTEM
 CLINTON LINE PLAN AND PROFILE**

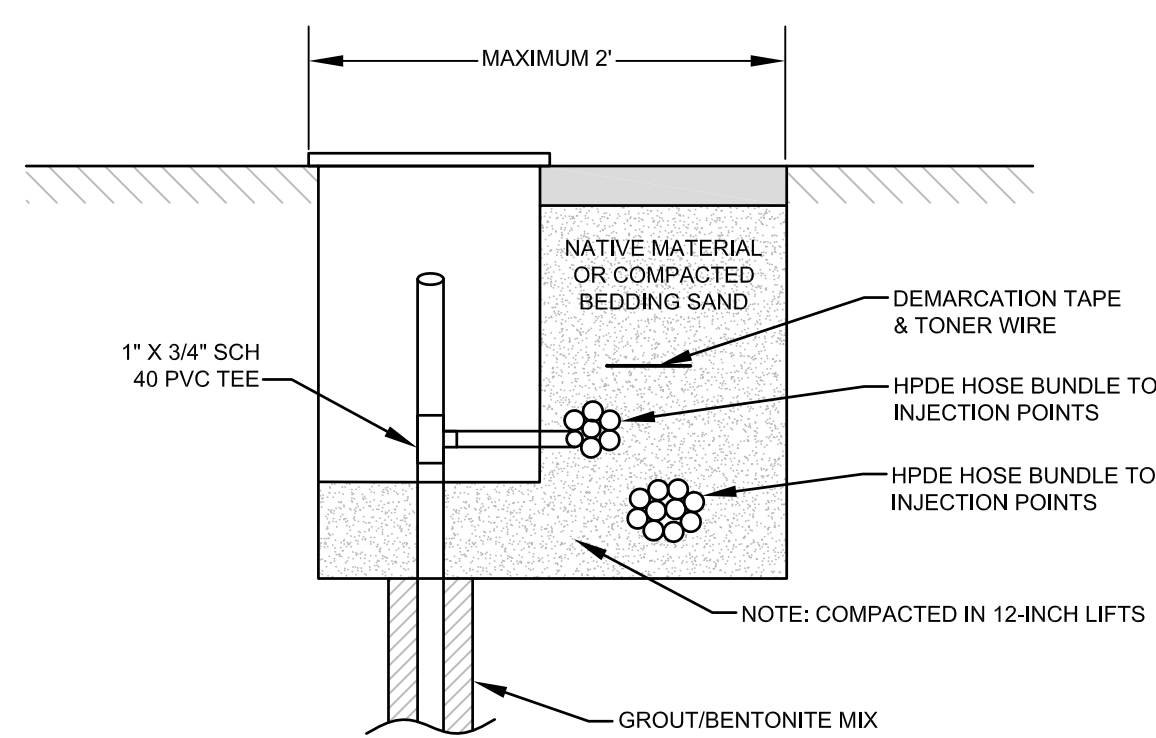
December 2010 Figure A3



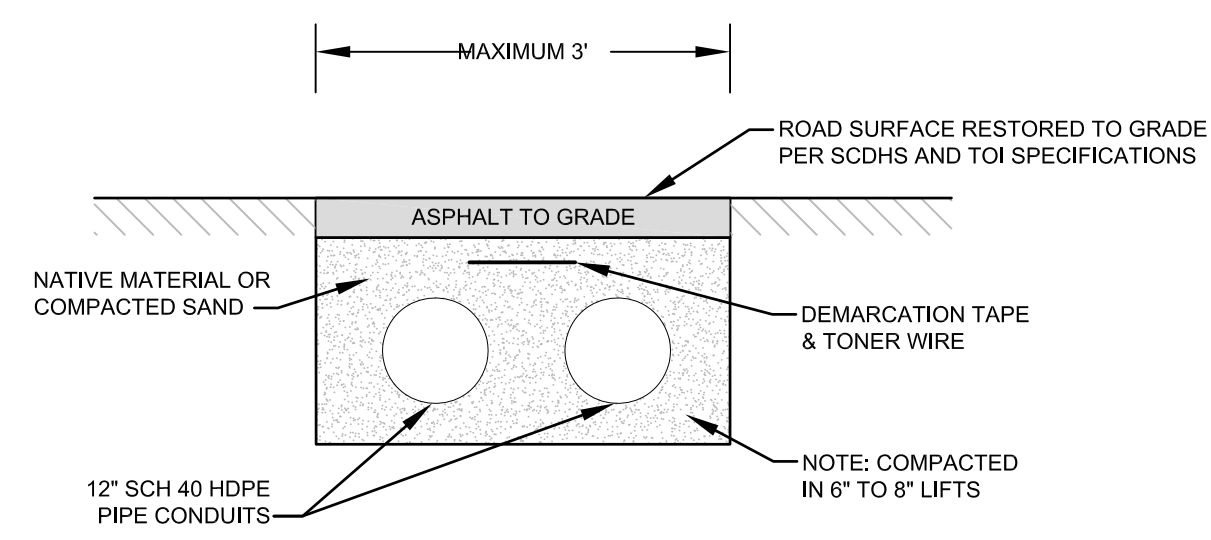
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A4
TYPICAL TRENCH PLAN VIEW



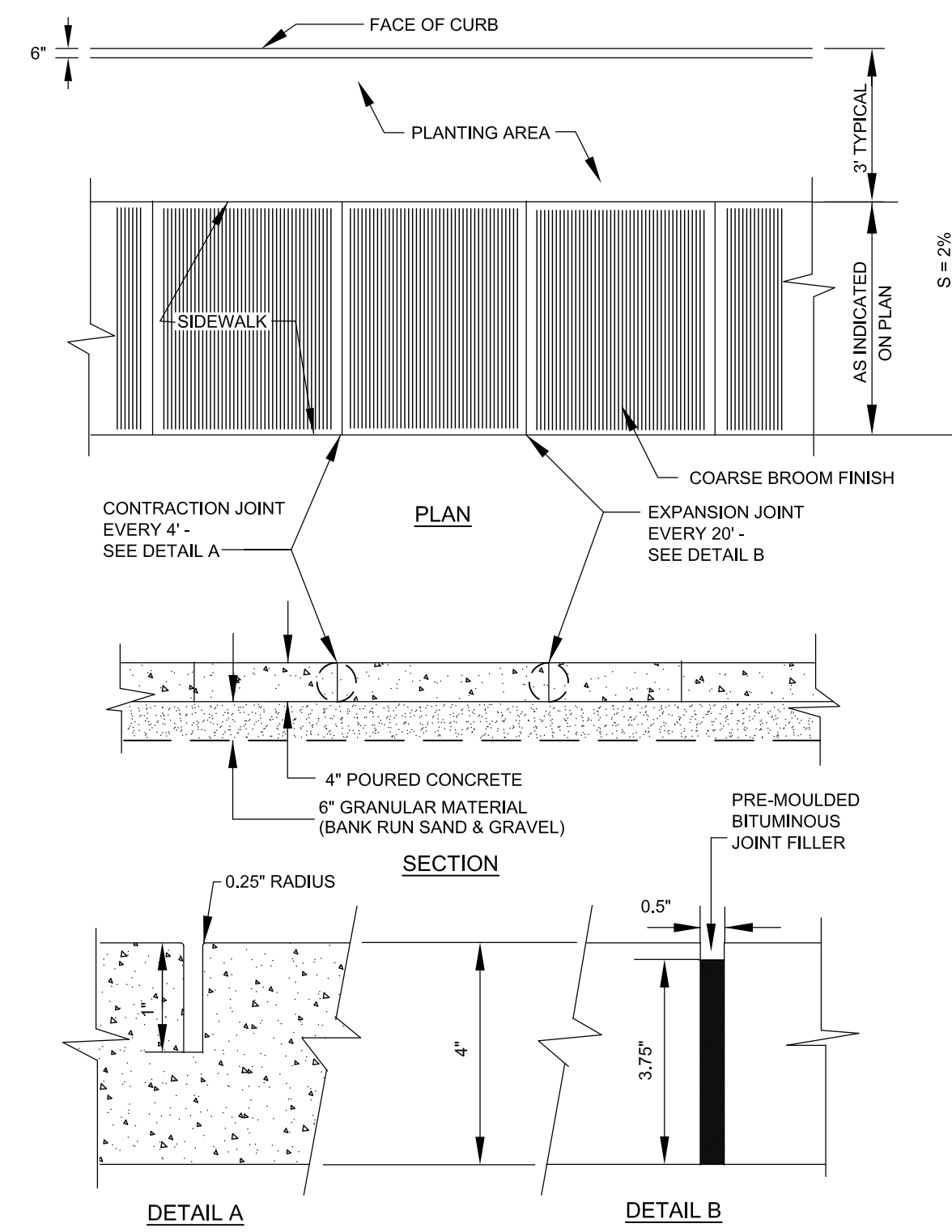
2
A4
TYPICAL TRENCH CROSS SECTION (NE TO SW)



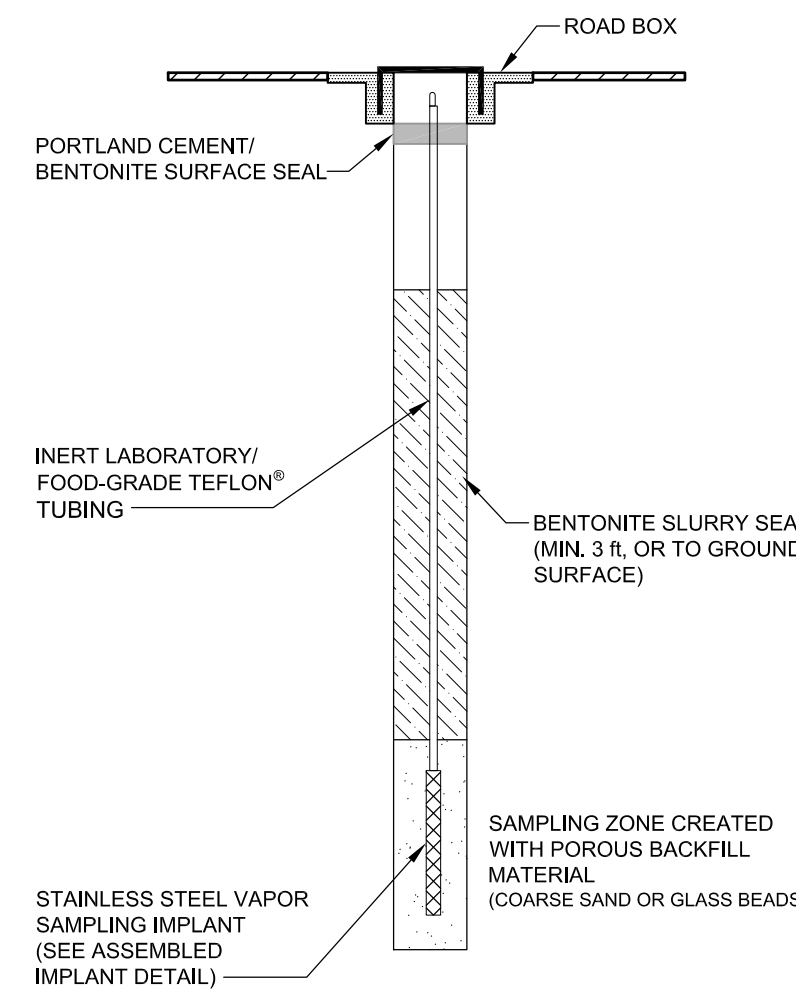
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A4
TYPICAL TRENCH DETAIL



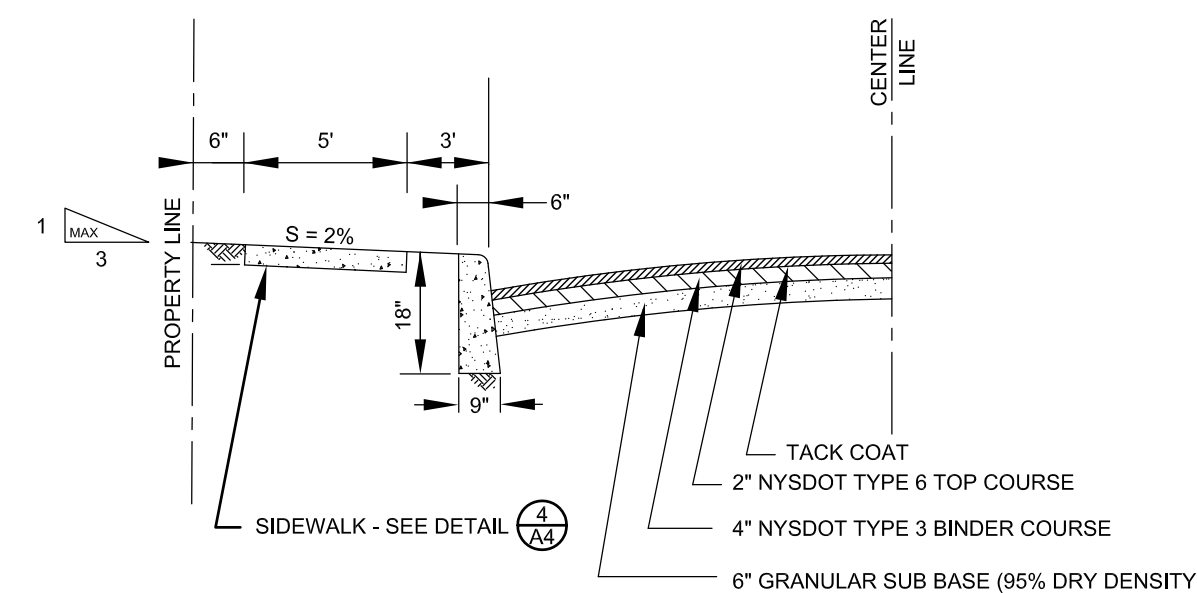
**TYPICAL N. CLINTON AVENUE
PIPE CONDUIT TRENCH CROSS SECTION**



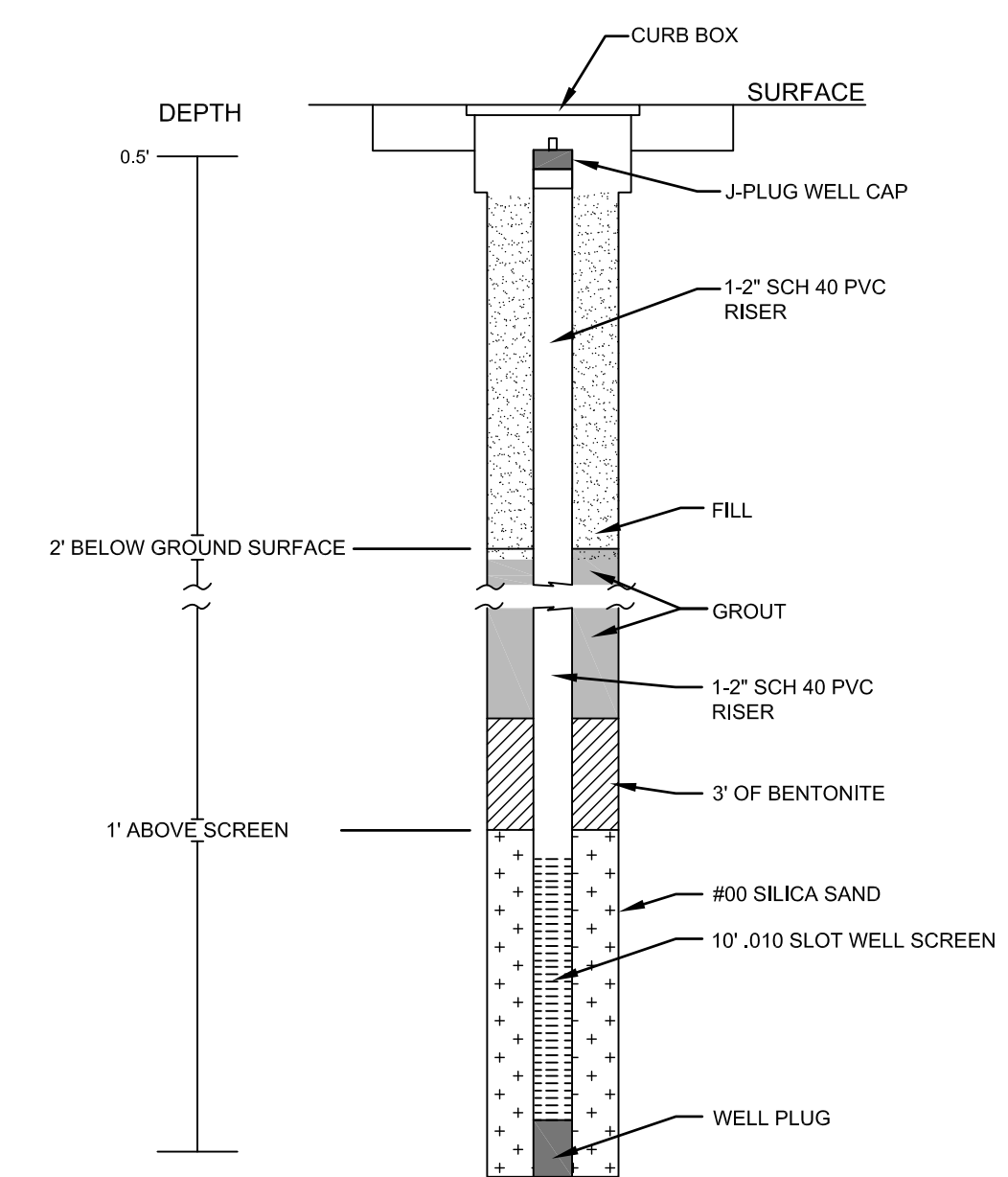
4
A4
CONCRETE SIDEWALK DETAIL
SOURCE: TOWN OF ISLIP DEPARTMENT OF PLANNING AND DEVELOPMENT
ITEM 105



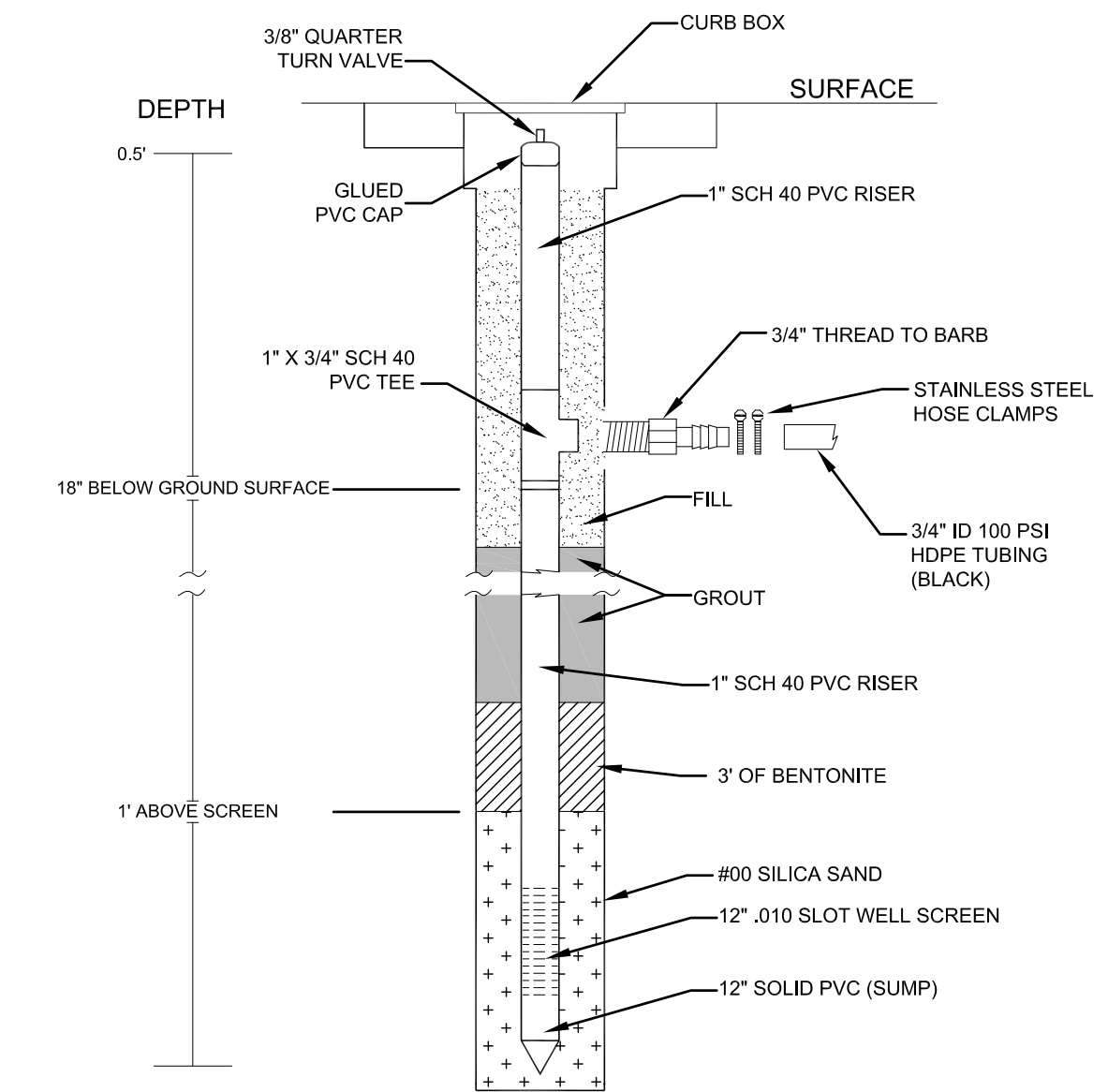
PERMANENT SOIL VAPOR POINT DETAIL



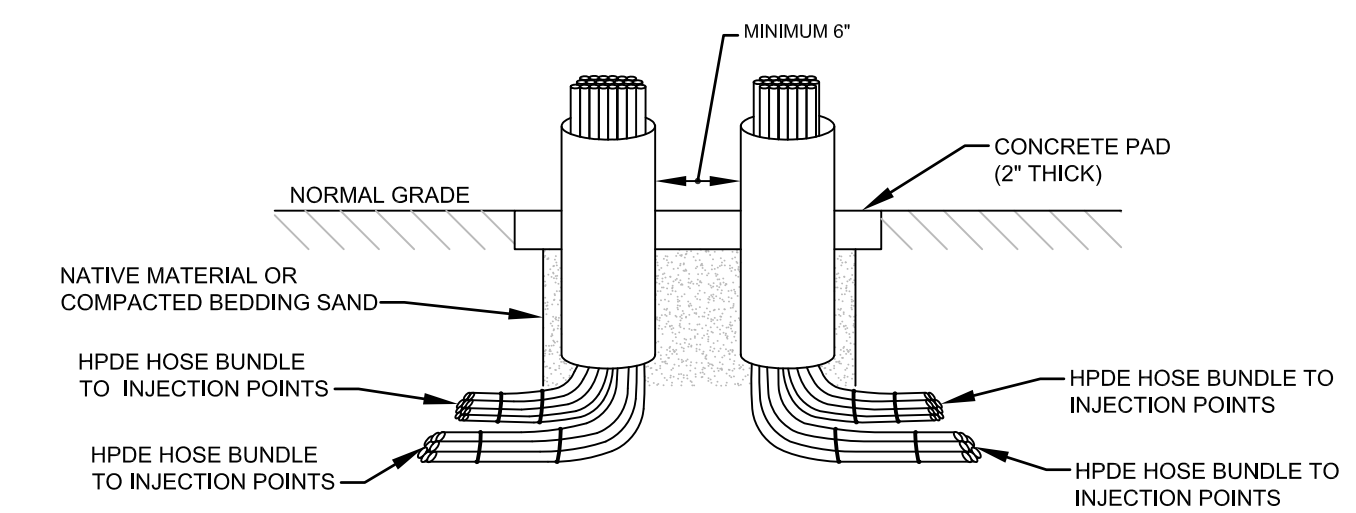
ROADWAY DETAIL
SOURCE: TOWN OF ISLIP DEPARTMENT OF PLANNING AND DEVELOPMENT



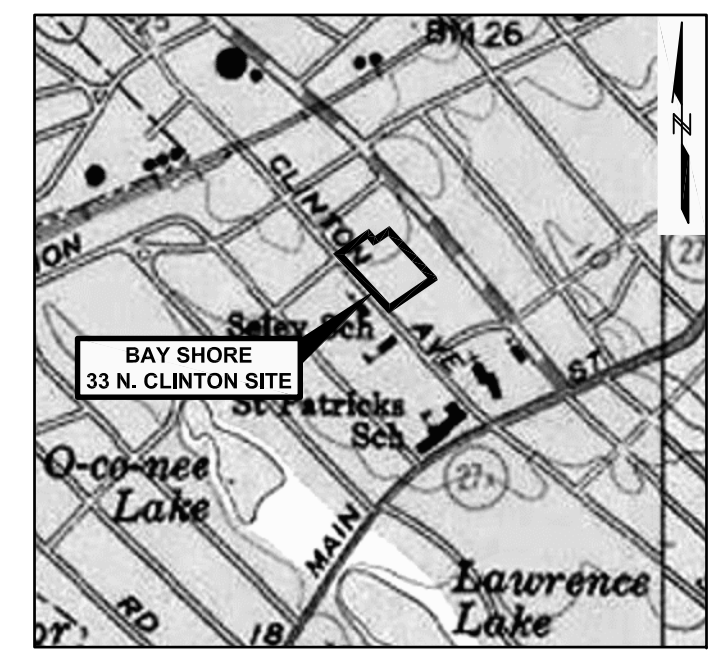
TYPICAL MONITORING WELL DETAIL



TYPICAL INJECTION WELL DETAIL



STUB-UP DETAIL

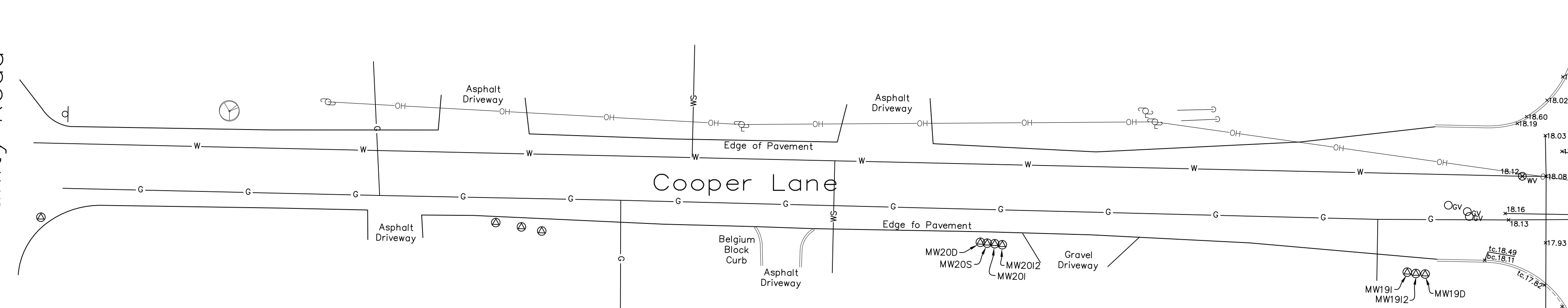


SITE LOCATION
SCALE: 1" = 100'

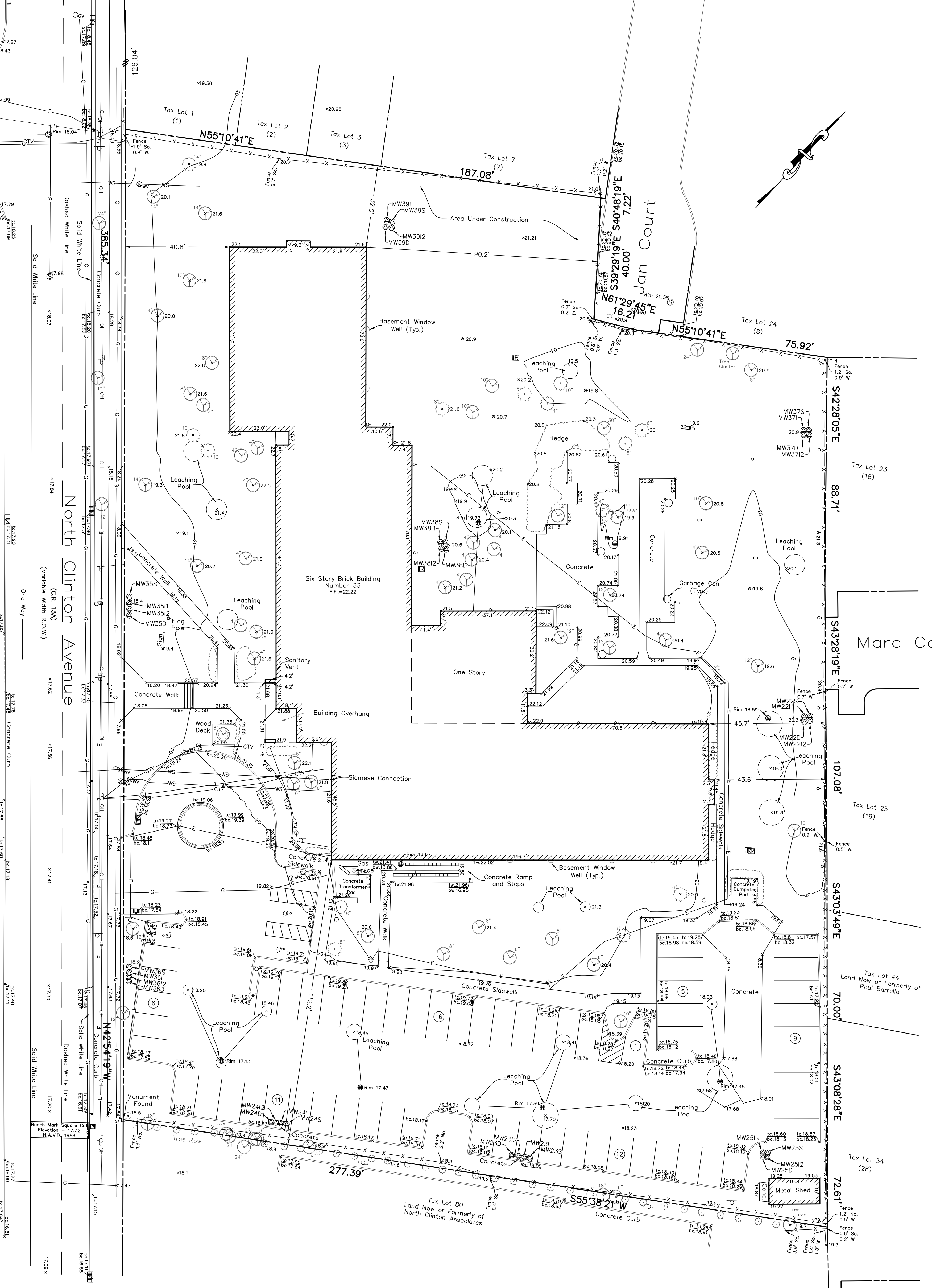
OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK		 GEI Consultants 110 WALT WHITMAN ROAD SUITE 204 HUNTINGTON STATION, NY 11746	33 N. CLINTON SYSTEM INSTALLATION DETAILS
 Project 093180-2-1208			

NOTE: NOT TO SCALE

Community Road

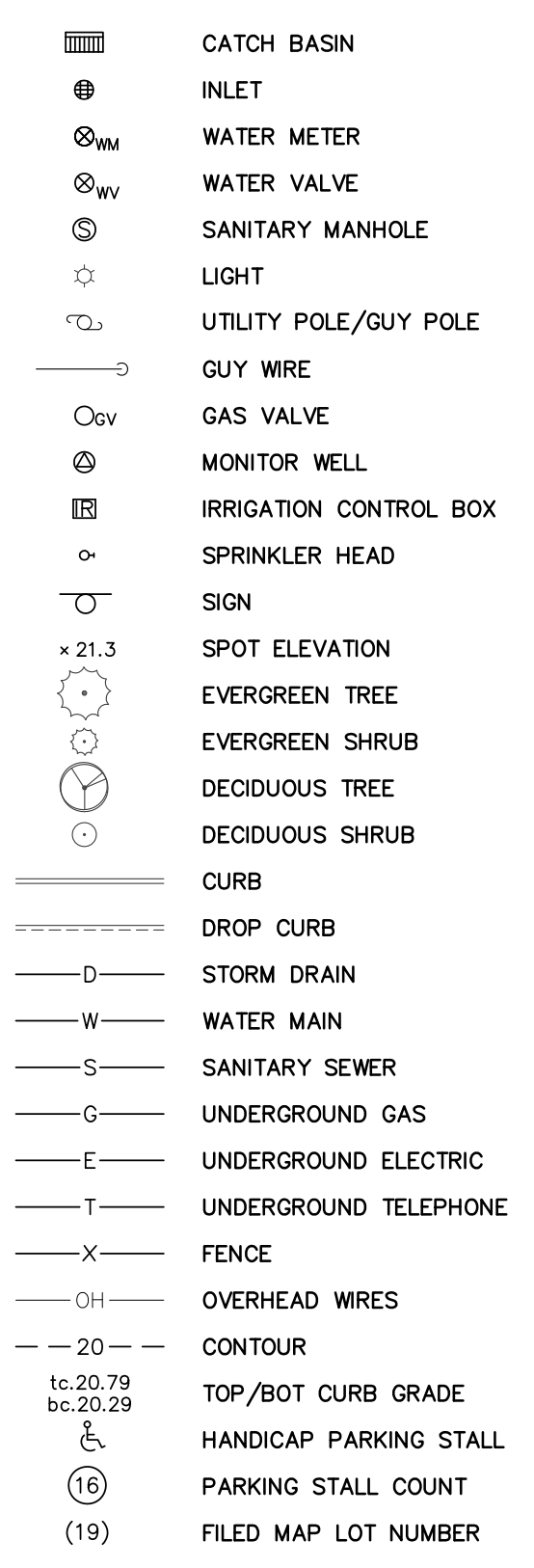


South Union Street



MONITORING WELL SCHEDULE			
STRUCTURE NAME	CASE RIM ELEVATION	PIPE RIM ELEVATION	ADJACENT SPOT GRADE ELEVATION
MW19S	18.88	17.82	18.85
MW19I	18.96	17.97	18.68
MW19Z	18.89	18.40	18.81
MW20S	18.7	18.39	18.70
MW20I	18.71	18.18	18.79
MW20Z	18.69	18.29	18.79
MW20D	18.69	18.22	18.70
MW22S	20.83	20.52	20.61
MW22I	20.65	20.27	20.34
MW22Z	20.86	20.41	20.72
MW22D	20.66	20.24	20.61
MW23S	18.07	17.83	18.07
MW23I	18.05	17.65	18.06
MW23Z	18.07	17.66	18.09
MW23D	18.10	17.61	18.09
MW24S	18.23	17.71	18.23
MW24I	18.24	17.72	18.22
MW24Z	18.24	17.72	18.22
MW24D	18.24	17.72	18.22
MW25S	18.81	18.41	18.70
MW25I	18.80	18.40	18.75
MW25Z	18.90	18.44	18.76
MW25D	18.84	18.43	18.70
MW34S	17.91	17.66	17.90
MW34I	17.90	17.64	17.94
MW34D	17.95	17.71	17.94
MW35S	18.42	18.07	18.38
MW35I	18.47	18.09	18.19
MW35Z	18.52	17.94	18.19
MW35D	18.39	17.98	18.42
MW36S	18.26	17.97	18.28
MW36I	18.26	17.88	18.28
MW36Z	18.22	17.91	18.10
MW36D	18.29	17.92	18.31
MW37S	21.26	20.90	21.05
MW37I	21.13	20.74	20.94
MW37Z	21.25	20.95	21.27
MW37D	21.14	20.76	20.94
MW38S	20.75	20.31	20.54
MW38I	20.92	20.43	20.91
MW38Z	20.89	20.57	20.75
MW38D	20.70	20.39	20.54
MW39S	21.65	21.22	21.63
MW39I	21.65	21.32	21.67
MW39Z	21.64	21.14	21.69
MW39D	21.69	21.18	21.63

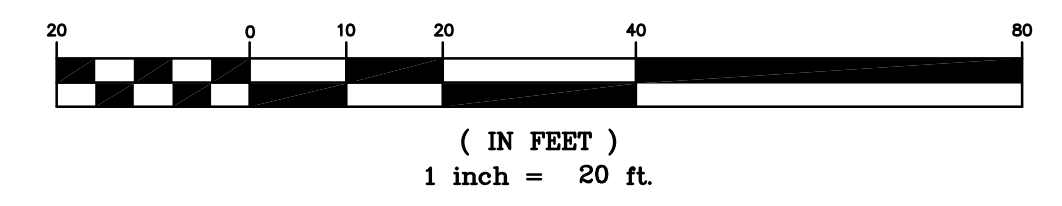
LEGEND



NOTE

- ELEVATIONS REFER TO N.A.V.D. 1988
- THE OFFSETS AND DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE AND ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES WALLS POOLS PATIOS ADDITIONS TO BUILDINGS AND ANY OTHER CONSTRUCTION
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON IS BASED ON ABOVE GROUND STRUCTURES AND MARKOUT PROVIDED BY OTHERS. LOCATIONS OF UNDERGROUND UTILITIES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES MAY BE ENCOUNTERED.
- THERE IS ONGOING CONSTRUCTION AT THE SITE. IF APPEARS MONITOR WELLS ARE STILL BEING INSTALLED.
- THERE ARE 63 MARKED PARKING STALLS 4 ARE HANDICAP ACCESSIBLE.
- SYMBOLS MAY HAVE BEEN REDUCED, ENLARGED OR ADJUSTED FOR CLARITY.

MW34S, 34I, and 34D APPEAR ALONG MECHANICVILLE ROAD AND ARE NOT PLOTTED.



SURVEYORS CERTIFICATION

WE HEREBY CERTIFY TO OUR CONSULTANTS THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS

H2M GROUP ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS
 HELLMUTHER, MCELHON & MURRELL, P.C.
 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747
 www.h2m.com

MELVILLE, N.Y. ■ PARSEPPANY, N.J. ■
 (831)-706-8000 (862)-207-5900

SURVEYED BY: JMG/AM	DRAWN BY: JSG	DESIGNED BY: GDC-0802	PROJECT NO: 17-20 FEET	DATE: 1/13/09
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REVISED: ADDITIONAL TOPO 2/12/09
 UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7005 OF THE NEW YORK STATE EDUCATION LAW

COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS' MARKS OR SIGNATURES SHALL BE CONSIDERED TO BE A COPY OF THIS SURVEY MAP. THE ORIGINAL SURVEY MAP SHALL BE KEPT IN THE OFFICE OF THE SURVEYOR. THE SURVEYOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE SURVEY MAP. THE SURVEYOR'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE SURVEYOR. THE SURVEYOR'S LIABILITY IS NOT TRANSFERABLE TO ANY OTHER PARTY.

JOHN SCHNURR, P.L.S. U.C. No. 49517

TOPOGRAPHIC SURVEY FOR GEI CONSULTANTS

BAY SHORE TOWN OF ISLIP SUFFOLK COUNTY NEW YORK

LOT 34
MAP OF BAYTOWNE VILLAGE
SECTION ONE

FILE NO: 7126 1982 FILE DATE: OCT. 19
 SCTM: DISTRICT 500, SECTION 392, BLOCK 04, LOT 40

X:\CADD (GEI Consultants)\6825\COMRESPONDENCE\08-0311_Plan\Map 3/11/2009 8:31:57 AM EDT

Area = 101,313 Sq. Ft. or 2.33 Acres



Hand clearing locations for injection points



Chain link fencing to secure work zone



Installation of injection points



Trenching in NE corner
of 33 N. Clinton Ave
Property



Trench soil debris removal



RCA Road for construction vehicles



SVE line placed in trench in case needed in future

HDPE injection lines in NE portion of trench



Conduit for Cooper Lane Extension injection lines



Conduit for HDPE injection lines for Cooper Lane



Injection point with fitting connected to HDPE line



Concrete slab for the injection system shed
33 North Clinton Ave. Photo Log Appendix A



Oxygen injection system shed

Saw cutting pavement of left hand lane of N. Clinton Ave.



N. Clinton Ave. Lane Closure

Trenching across left hand lane of N. Clinton Ave.



Placing conduit in trench
of right lane of N. Clinton
Ave.



Cooper Lane before restoration



30 day
temporary
patching
of N.
Clinton
Ave.



Installation of injection points



Saw cutting pavement for trench



Placing conduit in portion of trench at the end of a private driveway

Compacting trench



Backfilling trench with clean bedding sand



HDPE injection lines feed through conduit that runs under N. Clinton Ave. to the oxygen injection system shed located at 33 N. Clinton Ave.





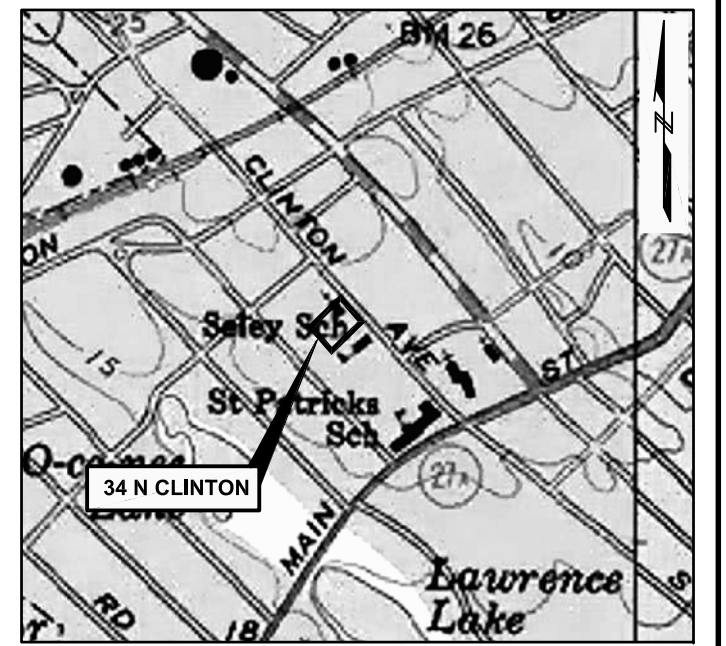
Trench backfilled up to grade



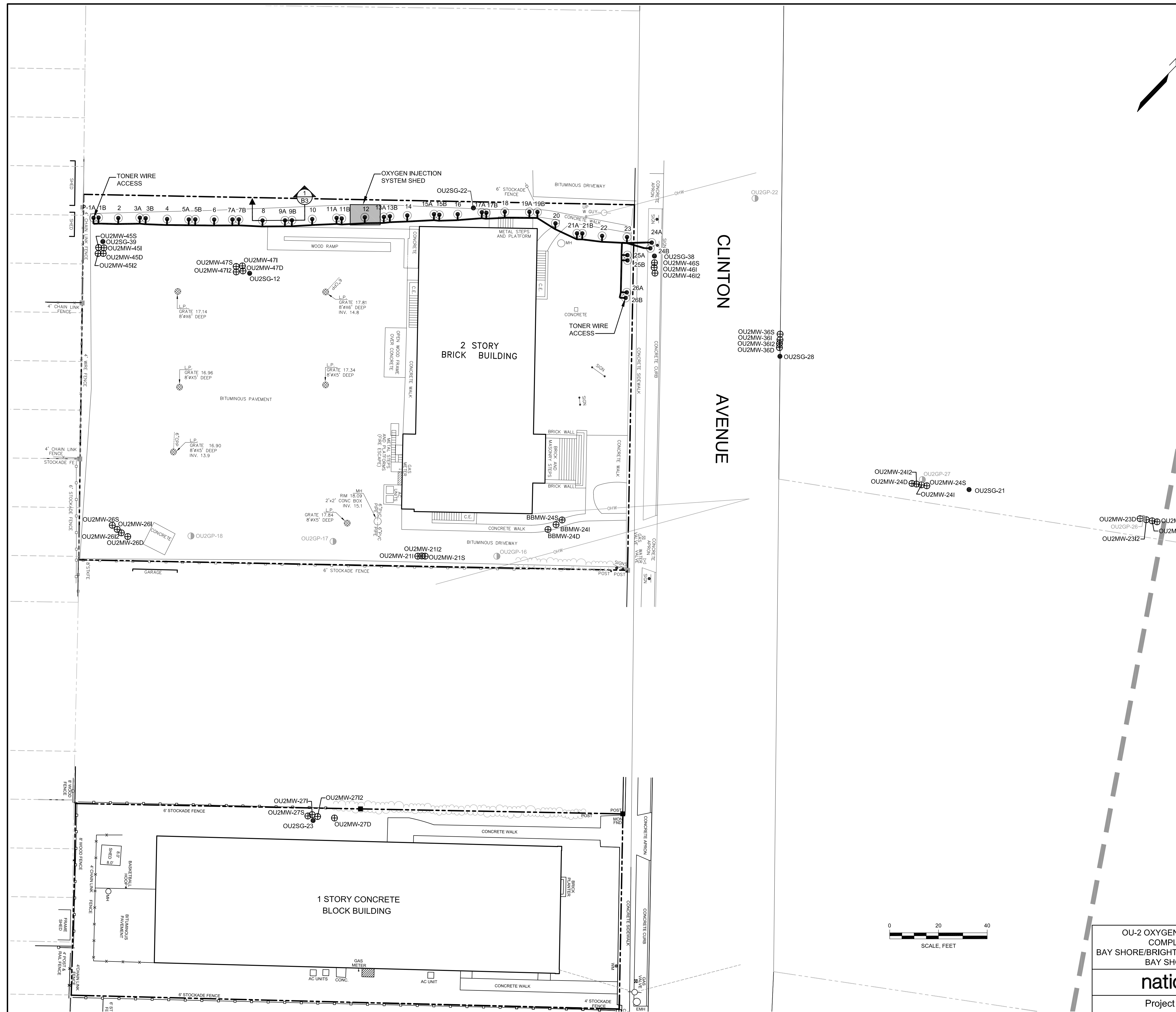
Cooper lane and N. Clinton crossing restoration

Appendix B

34 North Clinton System Installation Drawings, Record Drawings, and Photo Log



SITE LOCATION
SCALE: 1" = 100'



LEGEND

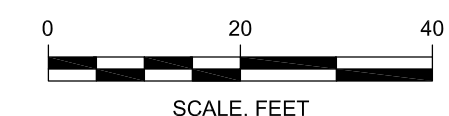
⊕ OU2MW-01S	EXISTING MONITORING WELL LOCATION S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
⊙ OU2GP-16	GROUNDWATER PROBE LOCATION
● OU2SG-12	PERMANENT SOIL VAPOR SAMPLING LOCATION
—	OU-2 EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
3A 3B	OXYGEN INJECTION POINT ID
⊕	OXYGEN INJECTION POINT LOCATION
—	OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
⊕	CATCH BASIN
⊕	INLET
⊕	WATER METER
⊕	WATER VALVE
⊕	SANITARY MANHOLE
⊕	LIGHT
⊕	UTILITY POLE/GUY POLE
⊕	DECIDUOUS SHRUB
—	CURB
—	FENCE
—	OVERHEAD WIRES

SOURCES:

1. PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. OFF SITE MONITORING WELL AND SOIL VAPOR POINT LOCATIONS OBTAINED FROM SURVEY PERFORMED BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK ON FEBRUARY 22, 2008 AND JANUARY 19, 2009 AND H2M GROUP, 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK IN 2008.
3. 33 NORTH CLINTON PROPERTY FEATURES BASED ON MAP TITLED "TOPOGRAPHIC SURVEY FOR GEI CONSULTANTS, LOT 34 MAP OF BAYTOWNE VILLAGE SECTION ONE, FILE NO.: 7126, FILE DATE: OCT. 19, 1982, SCTM: DISTRICT 500 SECTION 392 BLOCK 04, LOT 40, BAY SHORE, TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK", DATE: 1/19/09, REVISED: ADDITIONAL TOPO 2/12/09, BY H2M GROUP, 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK.
4. PROPERTY LINES NOT ASSOCIATED WITH 33 NORTH CLINTON AVENUE AND 34 NORTH CLINTON AVENUE ARE APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

NOTES:

1. UNDERGROUND, OVERHEAD AND GROUND LEVEL UTILITIES ARE NOT GUARANTEED AS TO ACCURACY, EXISTENCE, EXACT LOCATION, TYPE OR USE, ACTIVE OR INACTIVE. VERIFICATION IS MANDATORY WITH MUNICIPAL AGENCIES AND/OR PUBLIC OR PRIVATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
2. RECORDED EASEMENTS OR RIGHTS-OF-WAY, IF ANY, NOT SHOWN ARE NOT CERTIFIED.
3. SOIL VAPOR POINTS OU2SG-21, OU2SG-23, AND OU2SG-28 HAVE NOT BEEN SURVEYED AND ARE APPROXIMATE LOCATIONS.



OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

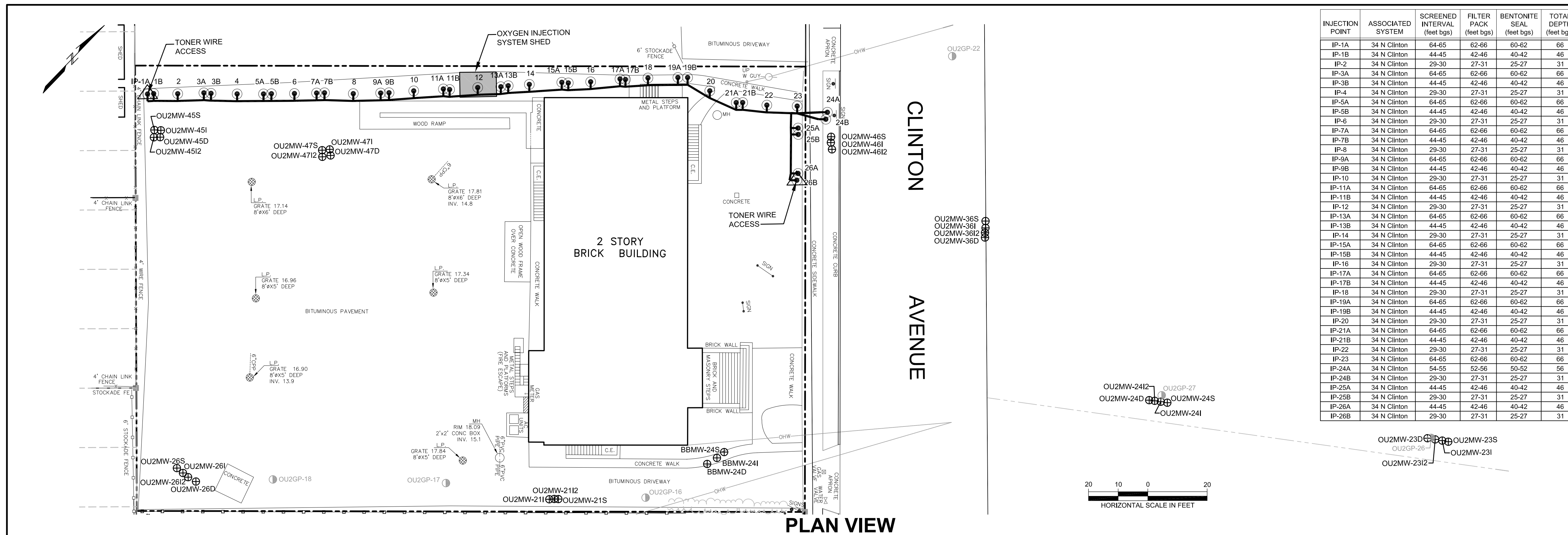
nationalgrid

Project 093180-2-1208

GEI Consultants
110 WALT WHITMAN ROAD
SUITE 204
HUNTINGTON STATION, NY 11746

**34 N. CLINTON OXYGEN
INJECTION SYSTEM PLAN**

December 2010 Figure B1

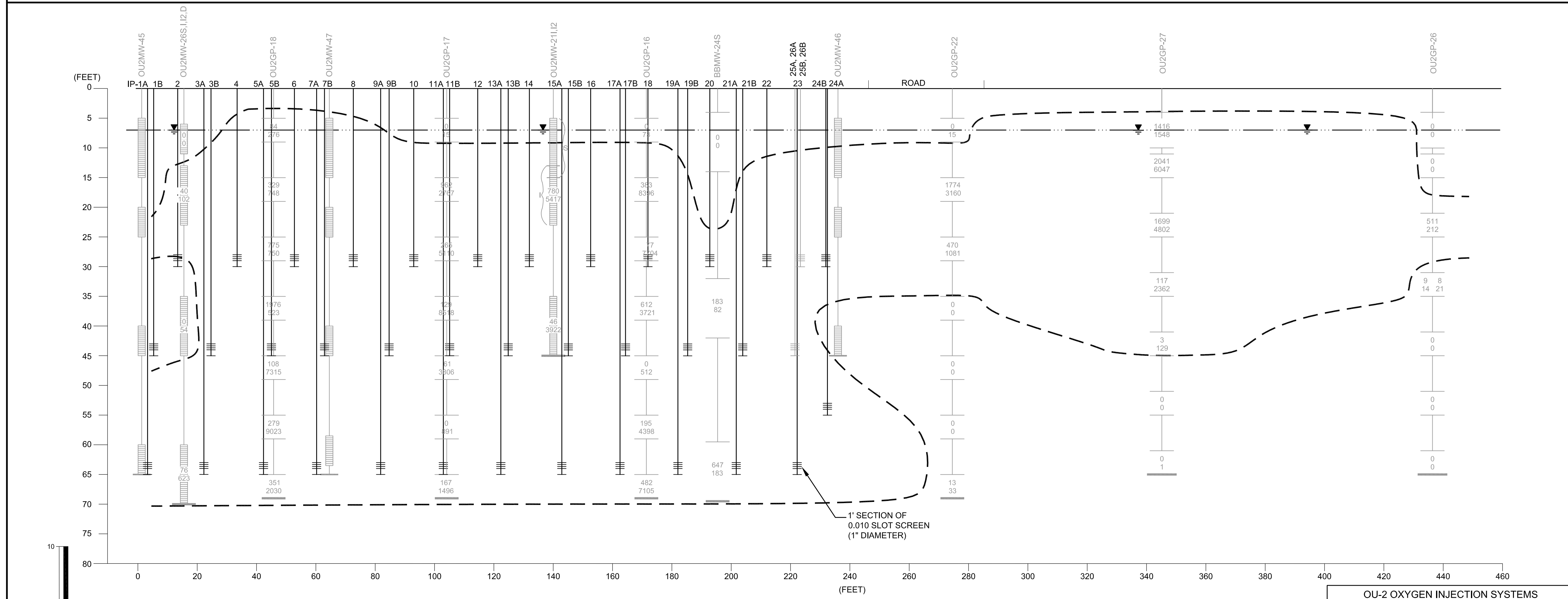


PLAN VIEW

INJECTION POINT	ASSOCIATED SYSTEM	SCREENED INTERVAL (feet bgs)	FILTER PACK (feet bgs)	BENTONITE SEAL (feet bgs)	TOTAL DEPTH (feet bgs)
IP-1A	34 N Clinton	64-65	62-66	60-62	66
IP-1B	34 N Clinton	44-45	42-46	40-42	46
IP-2	34 N Clinton	29-30	27-31	25-27	31
IP-3A	34 N Clinton	64-65	62-66	60-62	66
IP-3B	34 N Clinton	44-45	42-46	40-42	46
IP-4	34 N Clinton	29-30	27-31	25-27	31
IP-5A	34 N Clinton	64-65	62-66	60-62	66
IP-5B	34 N Clinton	44-45	42-46	40-42	46
IP-6	34 N Clinton	29-30	27-31	25-27	31
IP-7A	34 N Clinton	64-65	62-66	60-62	66
IP-7B	34 N Clinton	44-45	42-46	40-42	46
IP-8	34 N Clinton	29-30	27-31	25-27	31
IP-9A	34 N Clinton	64-65	62-66	60-62	66
IP-9B	34 N Clinton	44-45	42-46	40-42	46
IP-10	34 N Clinton	29-30	27-31	25-27	31
IP-11A	34 N Clinton	64-65	62-66	60-62	66
IP-11B	34 N Clinton	44-45	42-46	40-42	46
IP-12	34 N Clinton	29-30	27-31	25-27	31
IP-13A	34 N Clinton	64-65	62-66	60-62	66
IP-13B	34 N Clinton	44-45	42-46	40-42	46
IP-14	34 N Clinton	29-30	27-31	25-27	31
IP-15A	34 N Clinton	64-65	62-66	60-62	66
IP-15B	34 N Clinton	44-45	42-46	40-42	46
IP-16	34 N Clinton	29-30	27-31	25-27	31
IP-17A	34 N Clinton	64-65	62-66	60-62	66
IP-17B	34 N Clinton	44-45	42-46	40-42	46
IP-18	34 N Clinton	29-30	27-31	25-27	31
IP-19A	34 N Clinton	64-65	62-66	60-62	66
IP-19B	34 N Clinton	44-45	42-46	40-42	46
IP-20	34 N Clinton	29-30	27-31	25-27	31
IP-21A	34 N Clinton	64-65	62-66	60-62	66
IP-21B	34 N Clinton	44-45	42-46	40-42	46
IP-22	34 N Clinton	29-30	27-31	25-27	31
IP-23	34 N Clinton	64-65	62-66	60-62	66
IP-24A	34 N Clinton	54-55	52-56	50-52	56
IP-24B	34 N Clinton	29-30	27-31	25-27	31
IP-25A	34 N Clinton	44-45	42-46	40-42	46
IP-25B	34 N Clinton	29-30	27-31	25-27	31
IP-26A	34 N Clinton	44-45	42-46	40-42	46
IP-26B	34 N Clinton	29-30	27-31	25-27	31



- LEGEND**
- OU2GP-16 GROUNDWATER PROBE LOCATION
 - ⊕ OU2MW-01S EXISTING MONITORING WELL CLUSTER LOCATION
 - S=SHALLOW
 - I=INTERMEDIATE
 - I2= INTERMEDIATE TWO
 - D=DEEP
 - 3A 3B OXYGEN INJECTION POINT ID
 - OXYGEN INJECTION POINT LOCATION
 - OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
 - ▭ CATCH BASIN
 - INLET
 - WATER METER
 - WATER VALVE
 - SANITARY MANHOLE
 - LIGHT
 - UTILITY POLE/GUY POLE
 - DECIDUOUS SHRUB
 - CURB
 - FENCE
 - OH— OVERHEAD WIRES
- SECTION VIEW LEGEND**
- EXISTING MONITORING WELL OR MONITORING POINT ID
 - EXISTING MONITORING WELL OR MONITORING POINT LOCATION
 - TOTAL BTEX ug/L
 - TOTAL PAH ug/L
 - APPROXIMATE WATER LEVEL
 - MONITORING WELL SAMPLE INTERVAL
 - END OF BORING/WELL
 - TOTAL BTEX AND PAHs ≥ 100 ug/L
 - BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
 - PAHs POLYCYCLIC AROMATIC HYDROCARBONS
 - ug/L MICROGRAMS PER LITER
 - IP-1A OXYGEN INJECTION POINT ID
 - OXYGEN INJECTION POINT LOCATION
 - 0.010 SLOT SCREEN (1" DIAMETER)



CROSS-SECTION VIEW

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

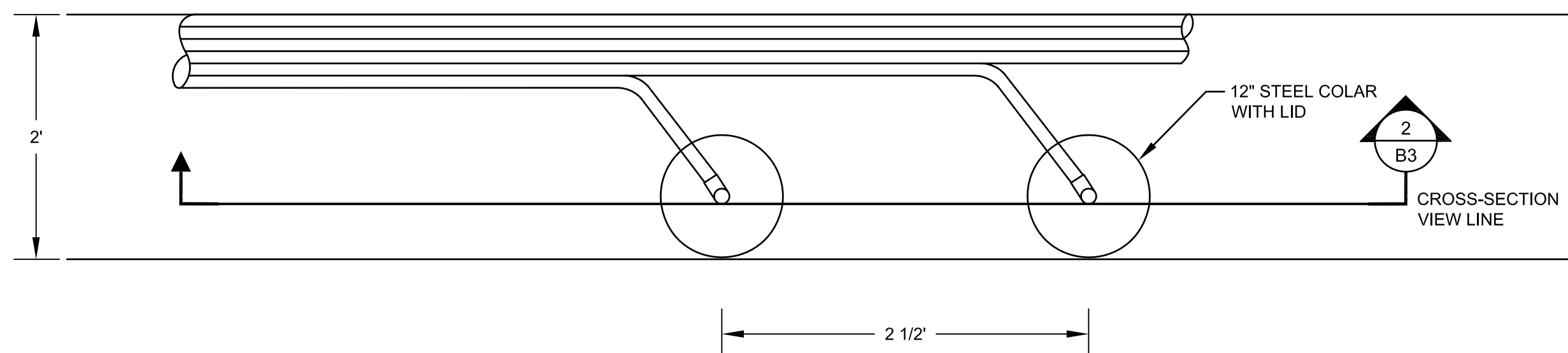
nationalgrid

Project 093180-2-1208

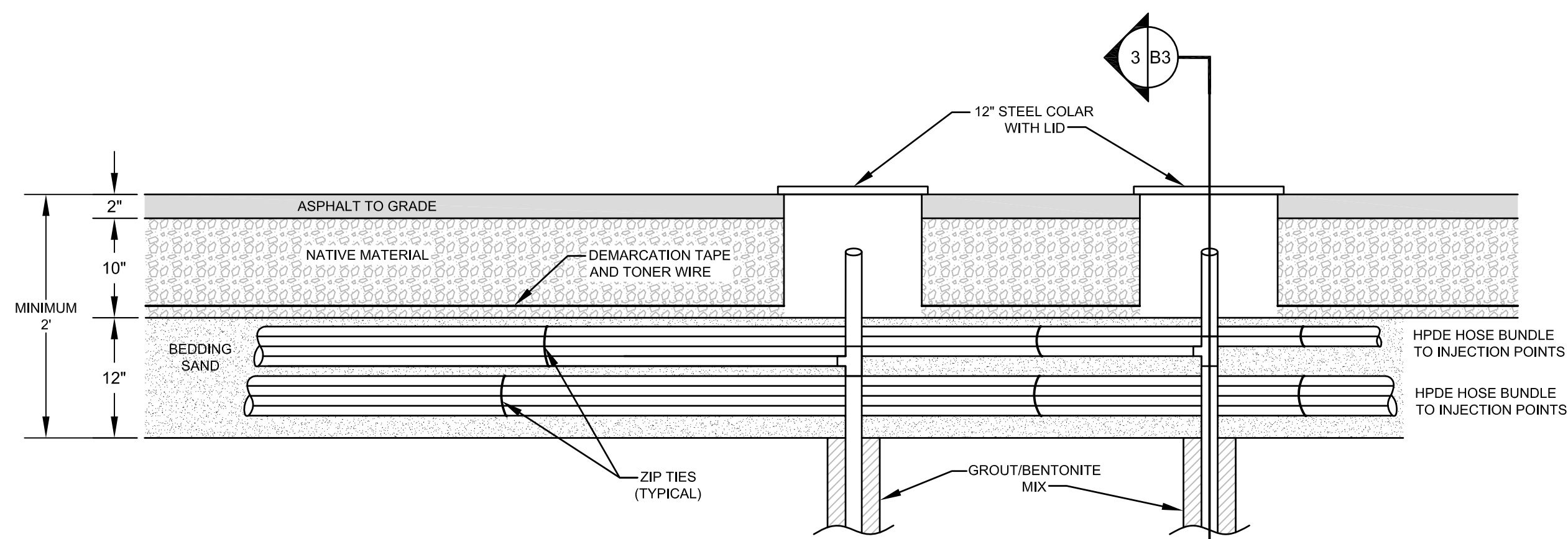


34 N. CLINTON OXYGEN INJECTION SYSTEM PLAN AND PROFILE

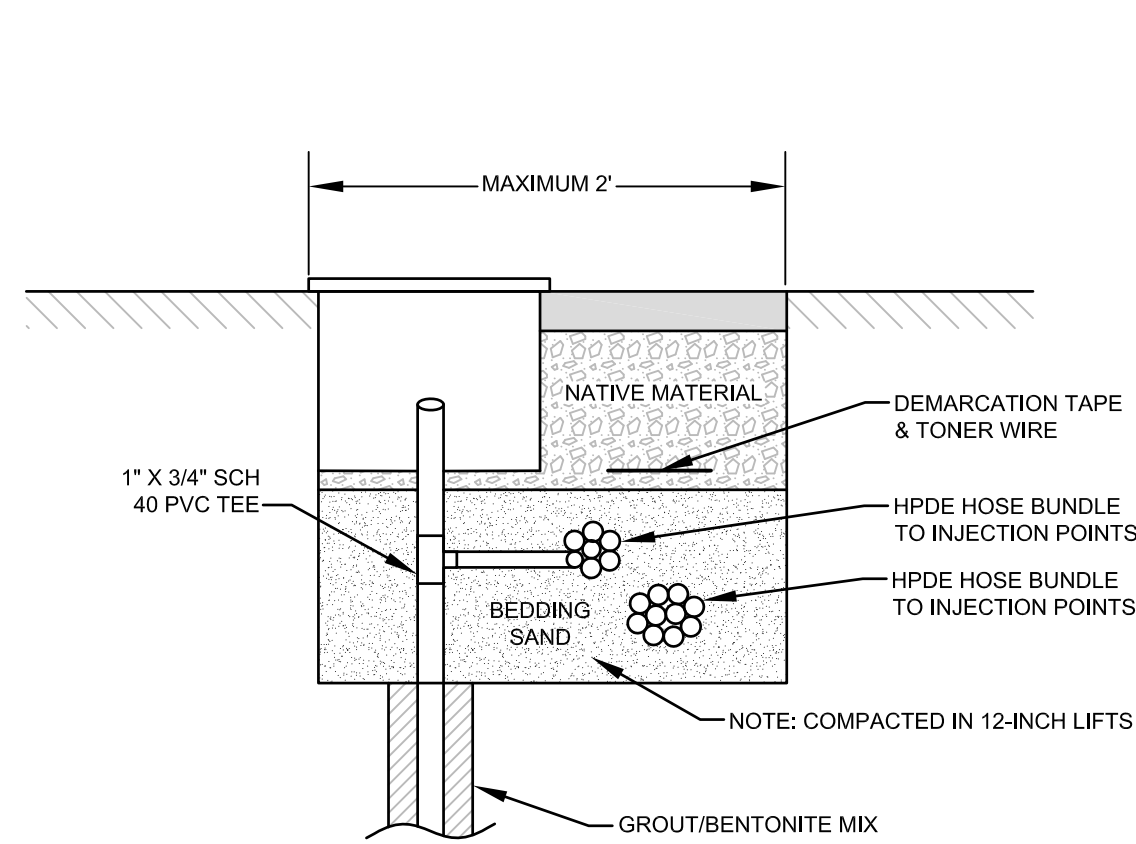
December 2010 Figure B2



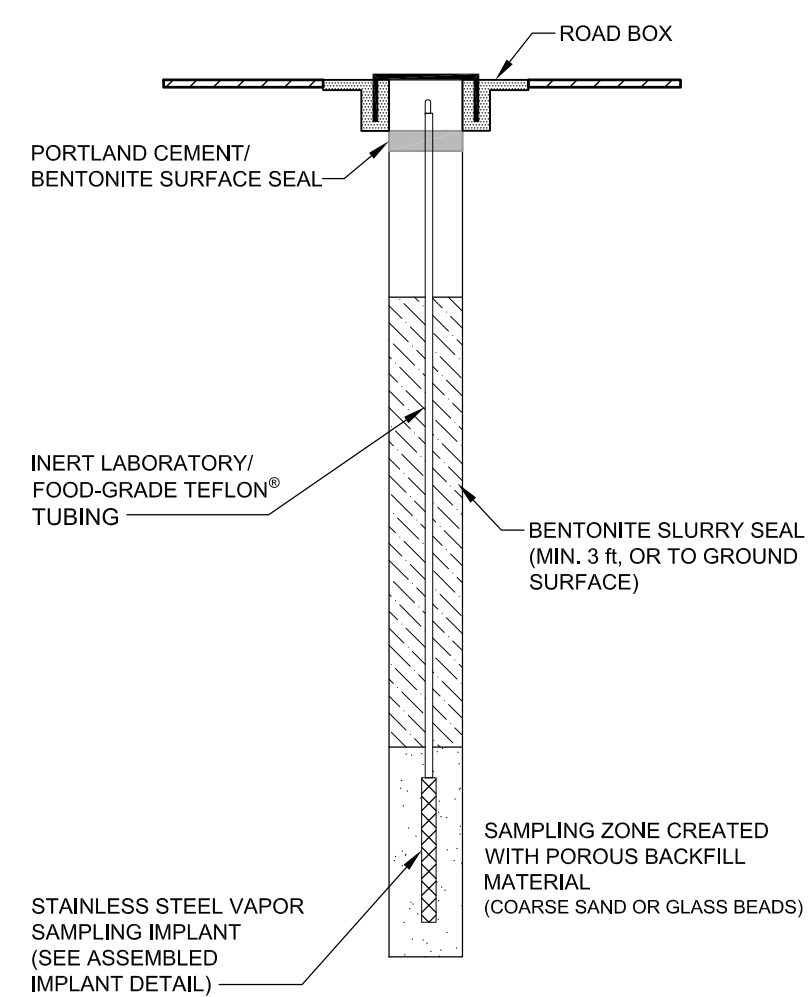
1 TYPICAL TRENCH PLAN VIEW



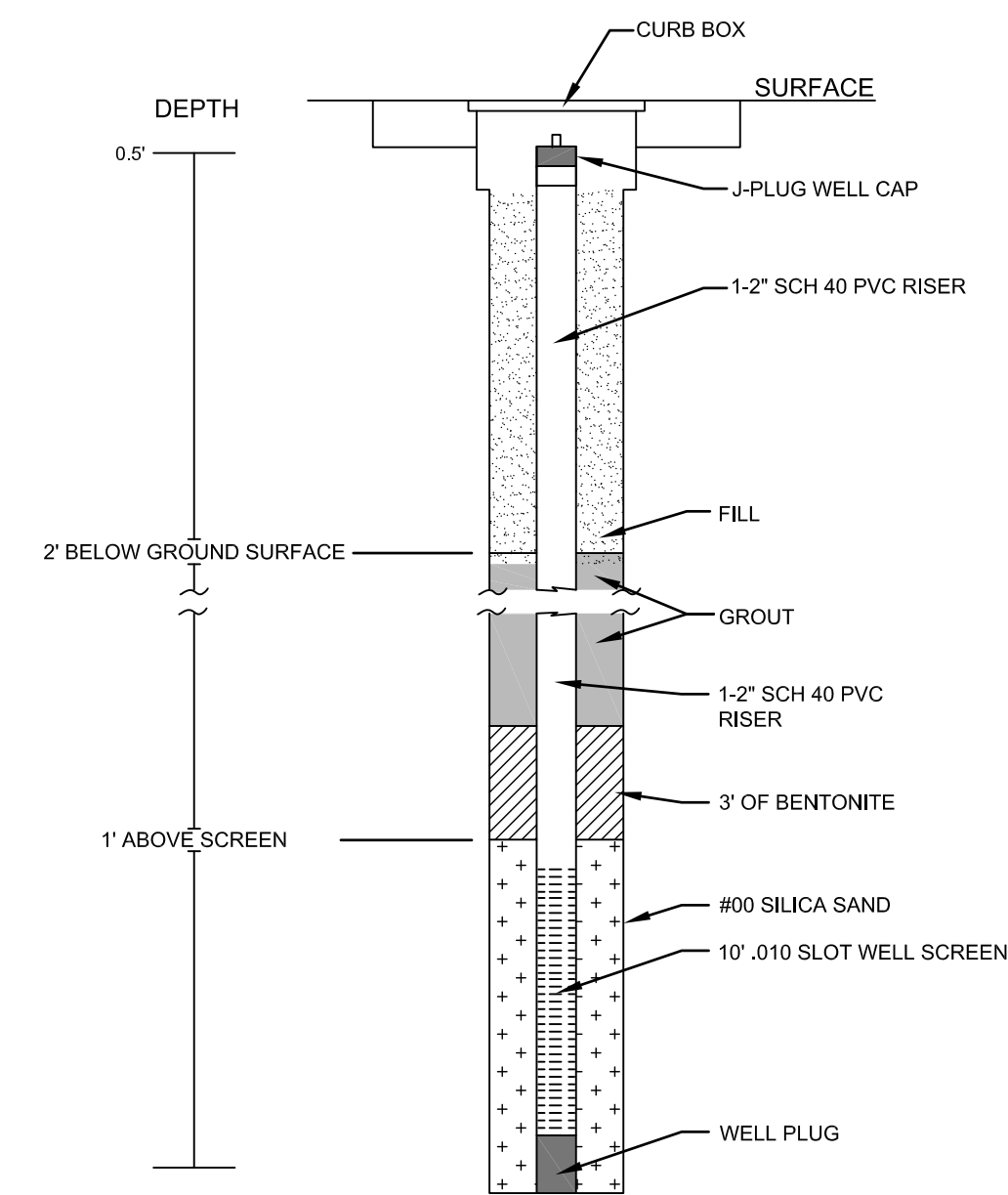
2 TYPICAL TRENCH CROSS SECTION (NE TO SW)



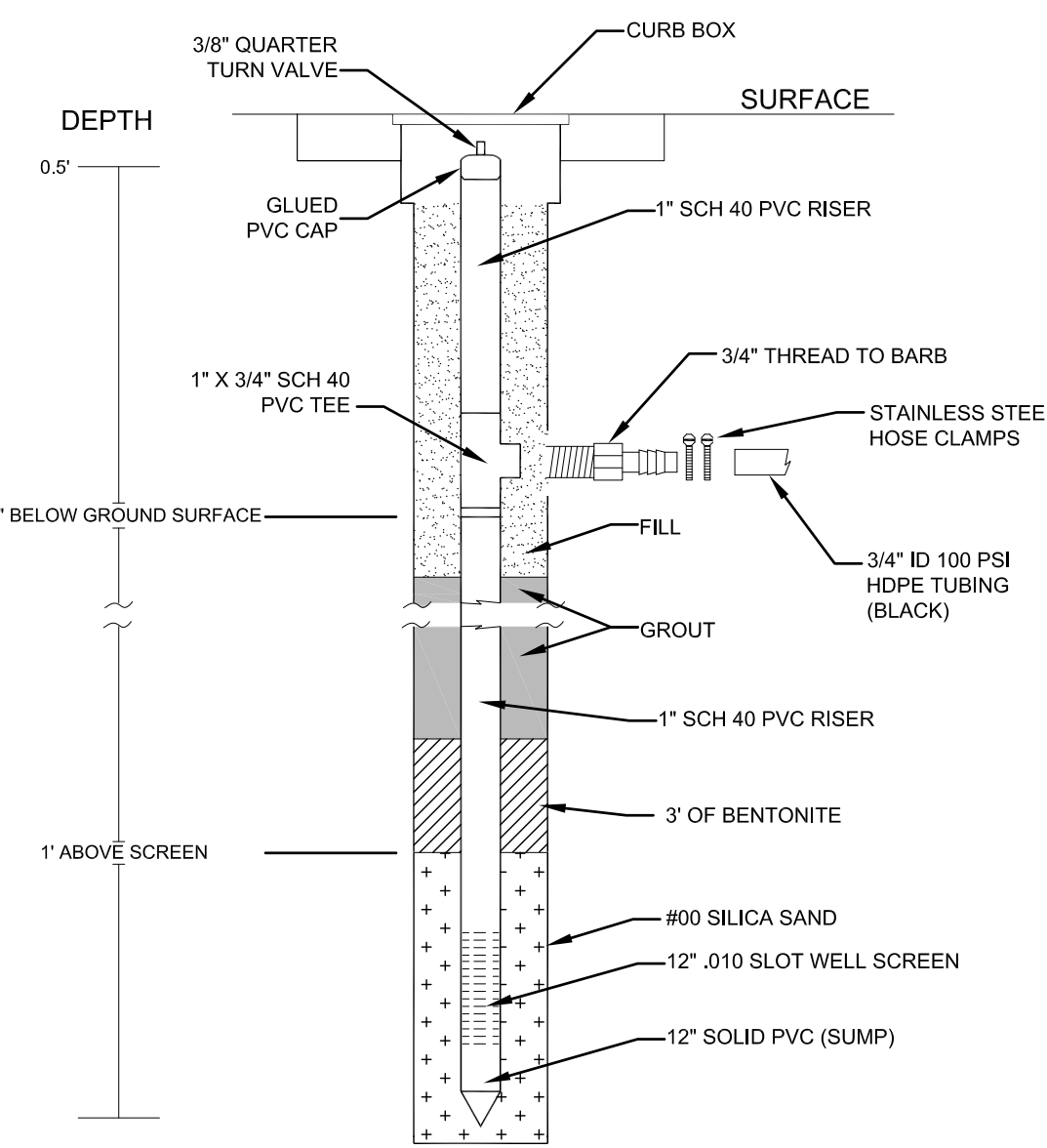
3 TYPICAL TRENCH DETAIL



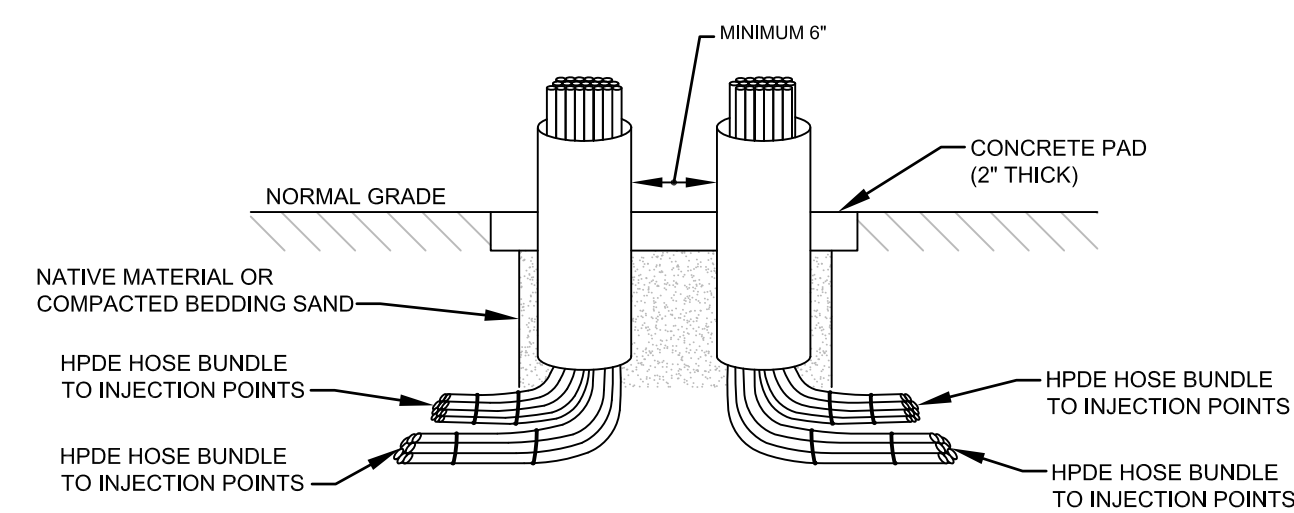
PERMANENT SOIL VAPOR POINT DETAIL



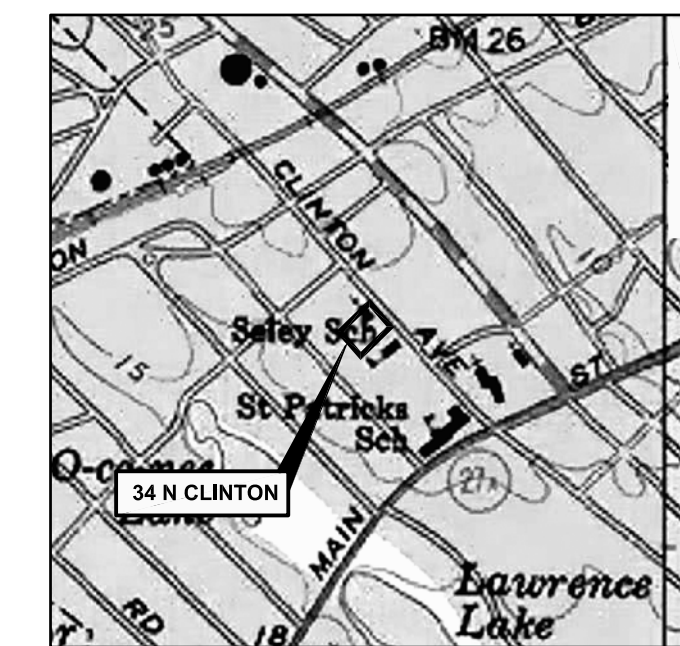
TYPICAL MONITORING WELL DETAIL



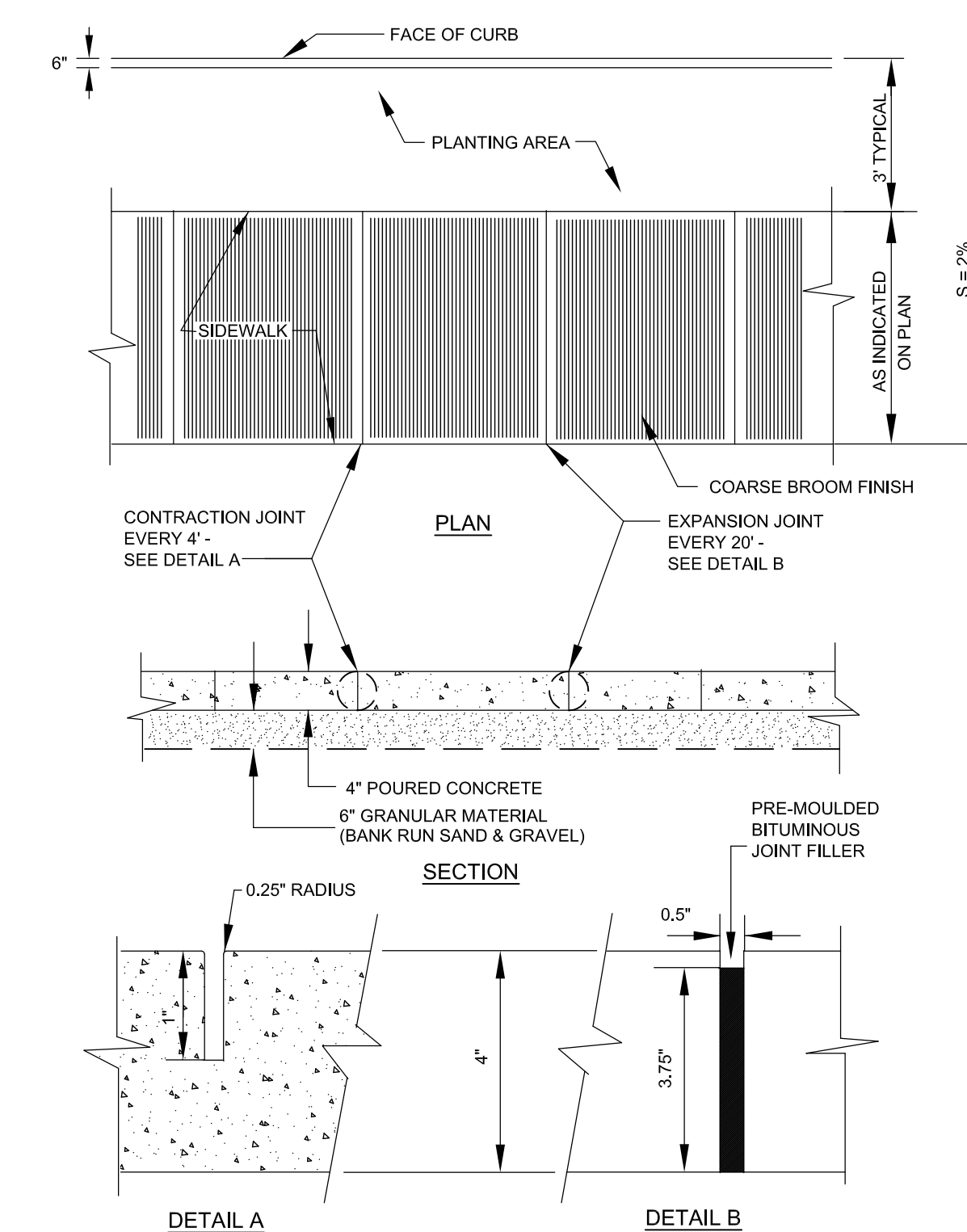
TYPICAL INJECTION WELL DETAIL



STUB-UP DETAIL



SITE LOCATION
SCALE: 1" = 100'



CONCRETE SIDEWALK DETAIL

SOURCE: TOWN OF ISLIP
DEPARTMENT OF PLANNING AND DEVELOPMENT
ITEM 105

NOTES:

1. NOT TO SCALE
2. AN 8" PVC CONDUIT WAS INSTALLED FROM THE SHED TO THE WESTERN PROPERTY LINE TO ACCOMMODATE FUTURE SYSTEM EXPANSION

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

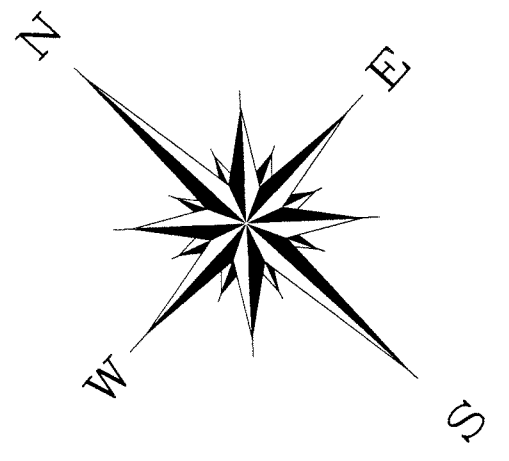
Project 093180-2-1208

GEI Consultants
110 WALT WHITMAN ROAD
SUITE 204
HUNTINGTON STATION, NY 11746

34 N. CLINTON SYSTEM
INSTALLATION DETAILS

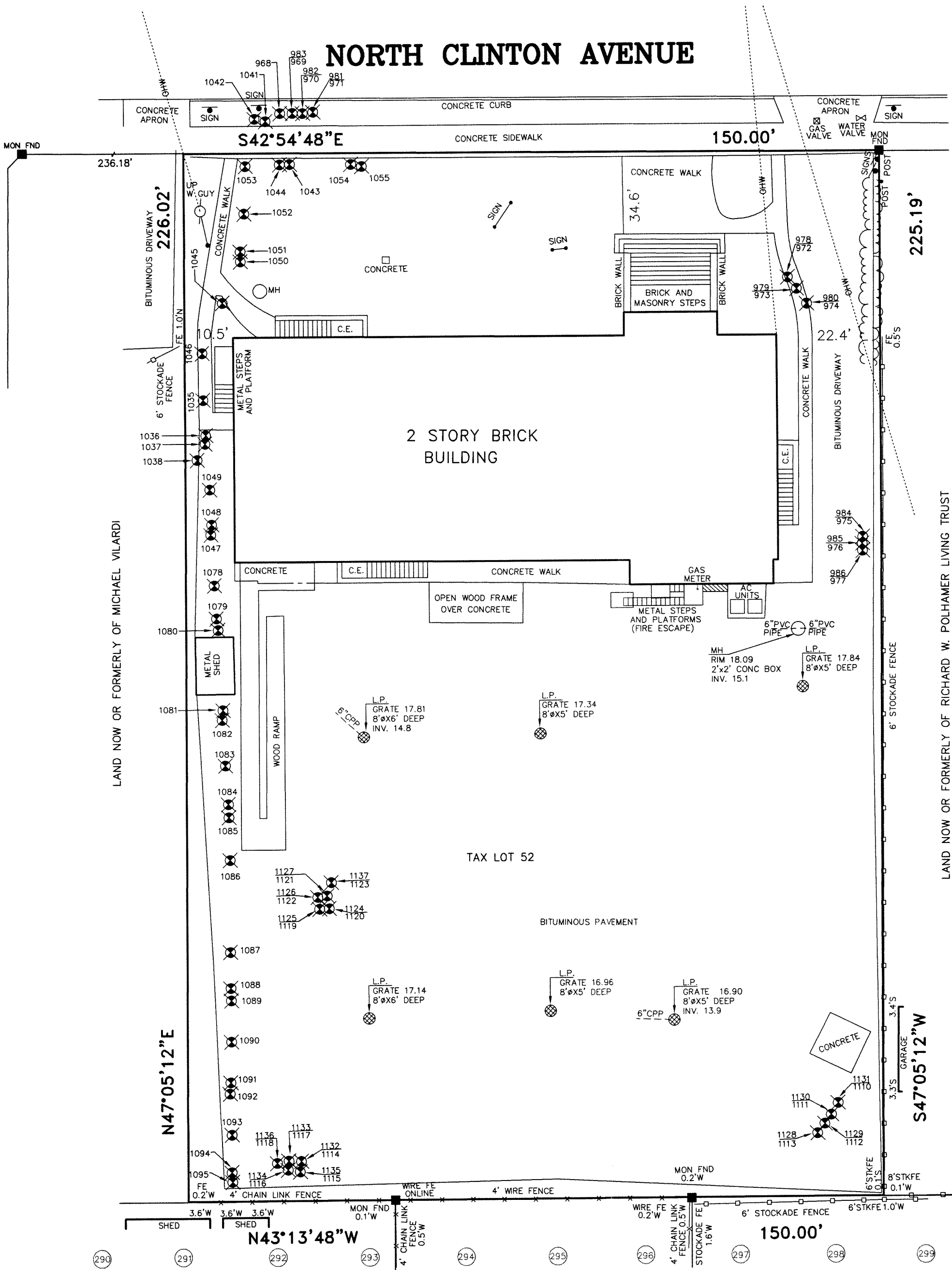
December 2010

Figure B3



NORTH CLINTON AVENUE

COOPER LANE



TABLE

Number	Northing	Easting	Elevation	Description
968	202742.9250	1190727.1740	18.15	MW/DUESG38
969	202740.9920	1190729.0020	18.09	MW MW
970	202739.3610	1190730.4630	18.13	MW MW
971	202737.8990	1190732.1970	18.09	MW MW
972	202638.6500	1190775.2600	18.27	MW MW
973	202635.5490	1190774.7730	18.29	MW MW
974	202631.7700	1190773.9010	18.32	MW MW
975	202588.8910	1190745.2170	18.25	MW MW
976	202587.9630	1190744.0590	18.37	MW MW
977	202586.8590	1190742.9610	18.37	MW MW
978	202638.7040	1190775.1570	18.03	TP/BBMW24X
979	202635.5890	1190774.7280	18.07	TP/BBMW24I
980	202631.8640	1190773.7100	17.92	TP/BBMW24D
981	202738.0270	1190732.1870	17.45	TP/DUEM4612
982	202739.4560	1190730.3750	17.75	TP/DUEM461
983	202740.9600	1190729.1070	17.87	TP/DUEM46F
984	202589.0000	1190745.0760	18.18	TP/DUEM21S
985	202588.0900	1190744.0360	17.98	TP/DUEM2112
986	202586.3740	1190742.8900	18.04	TP/DUEM211
1035	202713.3240	1190670.4370	19.50	MW/IP
1036	202707.7960	1190665.2430	19.61	MW/IP
1037	202706.6530	1190663.7690	19.61	MW/IP
1038	202705.5430	1190660.0360	19.61	MW/DUESG22
1041	202744.0520	1190723.7640	18.19	MW/IP
1042	202746.1290	1190722.5590	18.16	MW/IP
1043	202739.3690	1190720.4750	19.55	MW/IP
1044	202735.5040	1190718.9610	18.35	MW/IP
1045	202724.3780	1190688.6350	19.41	MW/IP
1046	202720.3180	1190677.7170	19.46	MW/IP
1047	202692.4490	1190650.1930	19.55	MW/IP
1048	202693.8000	1190651.9380	19.54	MW/IP
1049	202699.2130	1190657.1890	19.61	MW/IP
1050	202727.5500	1190697.8560	19.15	MW/IP
1051	202729.0510	1190698.4440	19.15	MW/IP
1052	202733.9710	1190705.9820	19.28	MW/IP
1053	202740.7050	1190713.6810	18.38	MW/IP
1054	202724.3260	1190729.3810	18.53	MW/IP
1055	202722.3520	1190730.6250	18.34	MW/IP
1078	202684.4770	1190642.6740	19.32	MW/IP
1079	202679.2920	1190637.7700	19.21	MW/IP
1080	202677.3530	1190636.1800	19.16	MW/IP
1081	202664.8860	1190624.1980	18.62	MW/IP
1082	202663.5870	1190622.5180	18.64	MW/IP
1083	202656.2880	1190615.6740	18.53	MW/IP
1084	202650.1640	1190610.0010	18.34	MW/IP
1085	202648.1670	1190607.9980	18.41	MW/IP
1086	202641.7250	1190601.3990	18.12	MW/IP
1087	202628.2310	1190586.8330	17.87	MW/IP
1088	202622.8880	1190581.2260	17.72	MW/IP
1089	202621.0190	1190579.3280	17.71	MW/IP
1090	202614.9550	1190572.8130	17.67	MW/IP
1091	202609.0930	1190566.2560	17.67	MW/IP
1092	202607.5740	1190564.3750	17.65	MW/IP
1093	202601.3420	1190558.1280	17.50	MW/IP
1094	202595.8440	1190552.1720	17.47	MW/IP
1095	202594.3360	1190550.7630	17.50	MW/IP
1110	202509.9470	1190651.8240	18.02	MW MW
1111	202509.3310	1190648.9690	18.05	MW MW
1112	202509.0510	1190646.6040	18.07	MW MW
1113	202508.8430	1190644.0210	18.03	MW MW
1114	202586.5140	1190564.0640	17.57	MW MW
1115	202585.1680	1190562.2440	17.54	MW MW
1116	202587.3180	1190560.7660	17.55	MW MW
1117	202588.5240	1190562.3120	17.58	MW MW
1118	202589.9130	1190560.2660	17.56	MW MW
1119	202620.4460	1190606.7240	18.09	MW MW
1120	202618.9960	1190608.2010	18.08	MW MW
1121	202621.2060	1190609.8970	18.09	MW MW
1122	202622.4650	1190608.3120	18.12	MW MW
1123	202622.4070	1190612.5040	18.18	MW MW
1124	202619.0480	1190608.2790	17.60	TP/DUEM4712
1125	202620.6370	1190606.7080	17.75	TP/DUEM47F
1126	202622.5760	1190608.3950	17.73	TP/DUEM47I
1127	202621.2840	1190609.9870	17.74	TP/DUEM47D
1128	202508.9380	1190643.9110	17.65	TP/DUEM26S
1129	202509.1310	1190646.5340	17.39	TP/DUEM26I
1130	202509.2900	1190648.7720	17.52	TP/DUEM2612
1131	202510.0120	1190651.6990	17.62	TP/DUEM26D
1132	202586.6030	1190563.7730	17.04	TP/DUEM45D
1133	202588.4670	1190562.3800	17.01	TP/DUEM45I
1134	202587.0480	1190560.6970	16.69	TP/DUEM45S
1135	202585.1220	1190562.2710	16.89	TP/DUEM4512
1136	202590.0040	1190560.2660	17.61	MW/DUESG39
1137	202622.4570	1190612.6390	18.20	MW/DUESG12

NOTE: DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND 3104, NAD 83/NAVD 88
 POINT DESCRIPTION:
 MW - ELEVATION TAKEN ON TOP OF COVER
 TP - ELEVATION TAKEN ON TOP OF 1" CASING
 MW/IP - ELEVATION TAKEN ON TOP OF COVER (INJECTION POINT)

LAND NOW OR FORMERLY OF THE EOD TRUST LAND NOW OR FORMERLY OF GEORGE AND FRANC DARINI LAND NOW OR FORMERLY OF DIANE J. ARBORE

"SECOND AMENDED MAP OF LAWRENCE FARM CORP. - SECTION 2"
 (FILED APRIL 10, 1925; FILE # 210)

FIELD SURVEY UPDATE: JANUARY 19, 2009
 FIELD SURVEY DATE: FEBRUARY 22, 2008
 LOT AREA: 33,841 SQFT / 0.78 ACRES

NOTES
 UNDERGROUND, OVERHEAD AND GROUND LEVEL UTILITIES ARE NOT GUARANTEED AS TO ACCURACY, EXISTENCE, EXACT LOCATION, TYPE OR USE, ACTIVE OR INACTIVE. VERIFICATION IS MANDATORY WITH MUNICIPAL AGENCIES AND/OR PUBLIC OR PRIVATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
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1.	1/19/09	UPDATE SURVEY	BY: PF
No.	DATE	REVISION	BY:
<p align="center">MAP OF JEWISH CENTER OF BAY SHORE SITUATED AT BAY SHORE TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK SCTM DISTRICT 500 SECTION 392 BLOCK 3 LOT 52</p>			DWN. BY: MAB
			DATE: 03-03-08
<p align="center">NELSON & POPE ENGINEERS • DESIGNERS • SURVEYORS 572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747-2188 (631) 427-5665 FAX (631) 427-5620</p>			CHK'D BY:
			DATE:
<p align="center">N&P</p>			JOB No.: 08038
			FILE: 500-392-4
<p align="center">N&P</p>			CADD: 08038S
			SCALE: 1"=20'
<p align="center">N&P</p>			SHEET: 1 OF 1



West and North property line brush removal and parking lot before restoration



Chain link fence to secure the work zone



Walkway to N. Clinton Ave. before restoration
34 North Clinton Ave. Photo Log Appendix



Trenching along northern property line



Injection points with fitting connections



Injection point installation

Backfilling the trench with clean material



Erosion control of stock piled soil



HDPE injection lines leading to shed location





Demarcation tape labeled "Caution Buried Gas Line Below"



Trench backfilled to grade



Installation of additional drainage in parking lot



Restoration of front yard



Restored walkway to N. Clinton Ave.



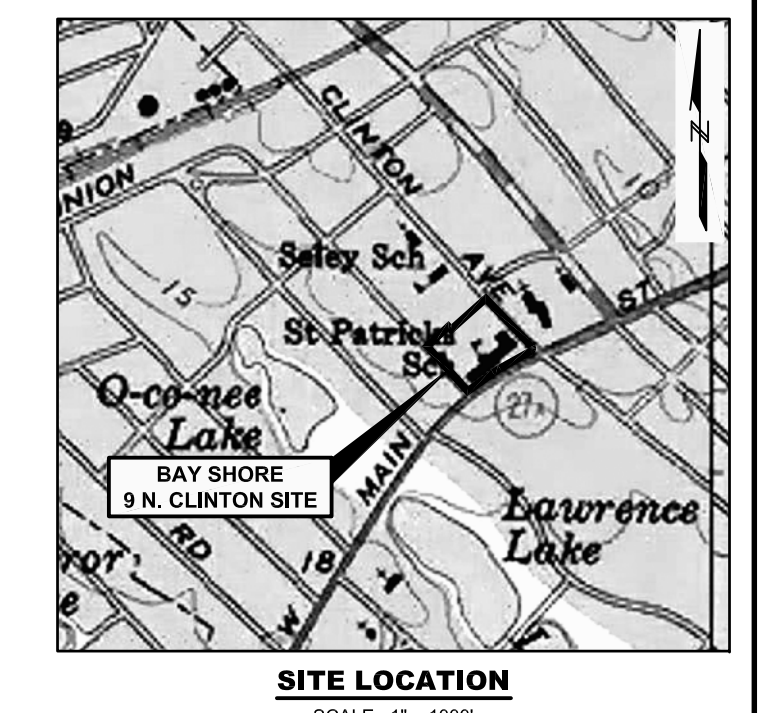
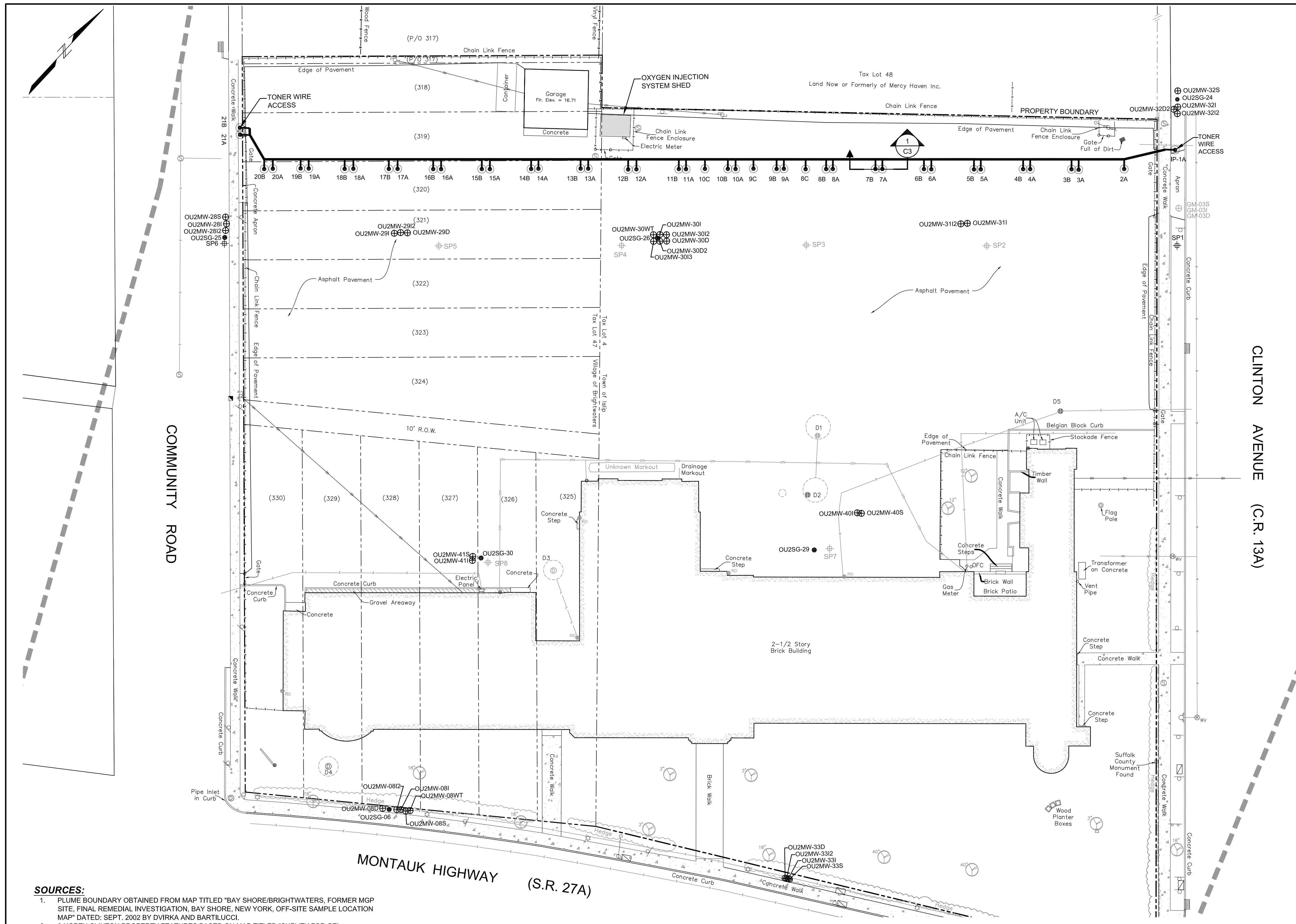
Restoration of parking lot



Oxygen Injection System Shed

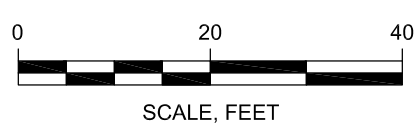
Appendix C

9 North Clinton System Installation Drawings, Record Drawings, and Photo Log



LEGEND

- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
- ⊕ SP1 SUFFOLK COUNTY GROUNDWATER SAMPLE LOCATION
PERMANENT SOIL VAPOR POINT LOCATION
- ⊕ GM-03S ABANDONED MONITORING WELL CLUSTER APPROXIMATE LOCATION
GM-03I S=SHALLOW
GM-03D I=INTERMEDIATE
D=DEEP
- ⊕ SP2 ABANDONED SUFFOLK COUNTY GROUNDWATER SAMPLE LOCATION
- OU-2 EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
- OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
--- OXYGEN INJECTION POINT LOCATION
4B 4A OXYGEN INJECTION POINT ID
- ⊕ CATCH BASIN
- ⊕ INLET
- ⊕ WV WATER VALVE
- ⊕ SM SANITARY MANHOLE
- ⊕ L LIGHT
- ⊕ UP UTILITY POLE/GUY POLE
- ⊕ GW GUY WIRE
- ⊕ GV GAS VALVE
- ⊕ RD ROOF DRAIN
- ⊕ DT DECIDUOUS TREE
- ⊕ C CURB
- ⊕ F FENCE
- ⊕ SD STORM DRAIN
- ⊕ WM WATER MAIN
- ⊕ SS SANITARY SEWER
- ⊕ UG UNDERGROUND GAS
- ⊕ UE UNDERGROUND ELECTRIC
- ⊕ RL ROOF LEADER
- ⊕ OH OVERHEAD WIRES
- ⊕ CTV UNDERGROUND CABLE TELEVISION
- (19) FILED MAP LOT NUMBER



- SOURCES:**
- PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 - 9 NORTH CLINTON PROPERTY FEATURES BASED ON MAP TITLED "SURVEY FOR GEI CONSULTANTS, INC., MONITORING WELLS, SOIL VAPOR POINTS AND SYSTEM INJECTION WELLS, SCTM: DISTRICT 500 SECTION 392 BLOCK 03, LOT 47, SCTM: DISTRICT 500 SECTION 419, BLOCK 01 LOT 04, BAY SHORE, TOWN OF ISLIP, SUFFOLK COUNTY, NEW YORK", DATE: 10/13/10, BY H2M GROUP, 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK.
 - MONITORING WELLS OU2MW-08S, OU2MW-08I, OU2MW-08D, AND SOIL VAPOR POINT OU2MW-06 SURVEYED BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK IN NOVEMBER 2007.
 - PROPERTY LINES NOT ASSOCIATED WITH 9 NORTH CLINTON AVENUE ARE APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

- NOTES:**
- UNDERGROUND, OVERHEAD AND GROUND LEVEL UTILITIES ARE NOT GUARANTEED AS TO ACCURACY, EXISTENCE, EXACT LOCATION, TYPE OR USE, ACTIVE OR INACTIVE. VERIFICATION IS MANDATORY WITH MUNICIPAL AGENCIES AND/OR PUBLIC OR PRIVATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
 - RECORDED EASEMENTS OR RIGHTS-OF-WAY, IF ANY, NOT SHOWN ARE NOT CERTIFIED.

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

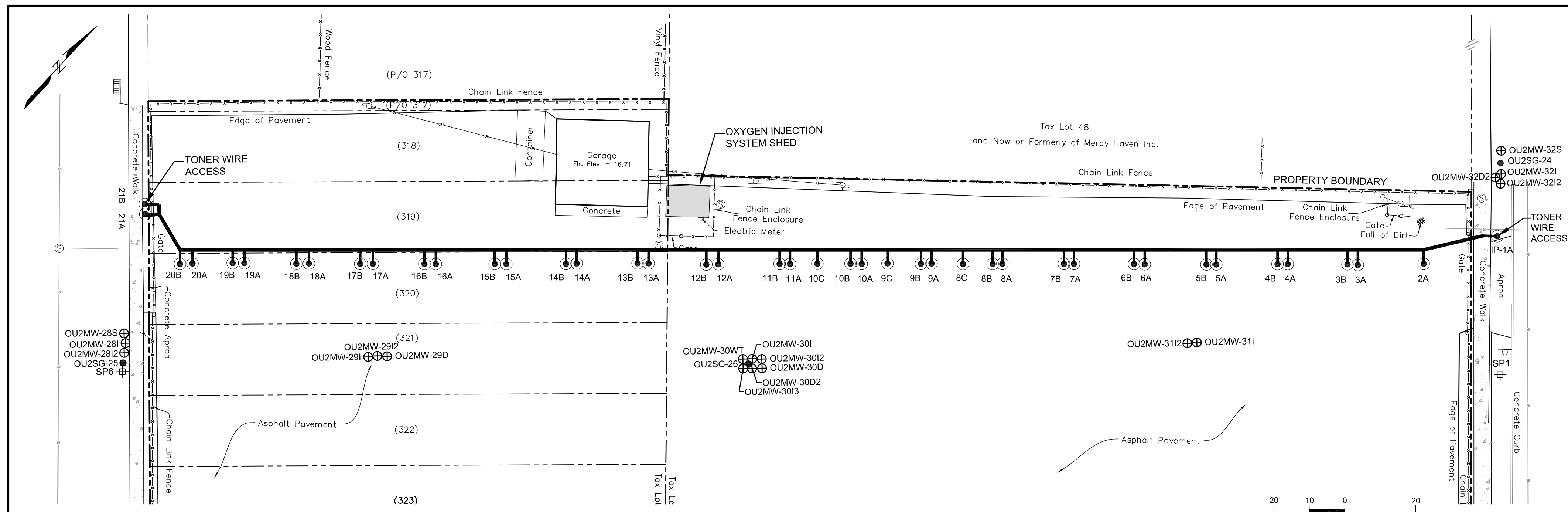
nationalgrid

Project 093180-2-1208

GEI Consultants
110 WALT WHITMAN ROAD
SUITE 204
HUNTINGTON STATION, NY 11746

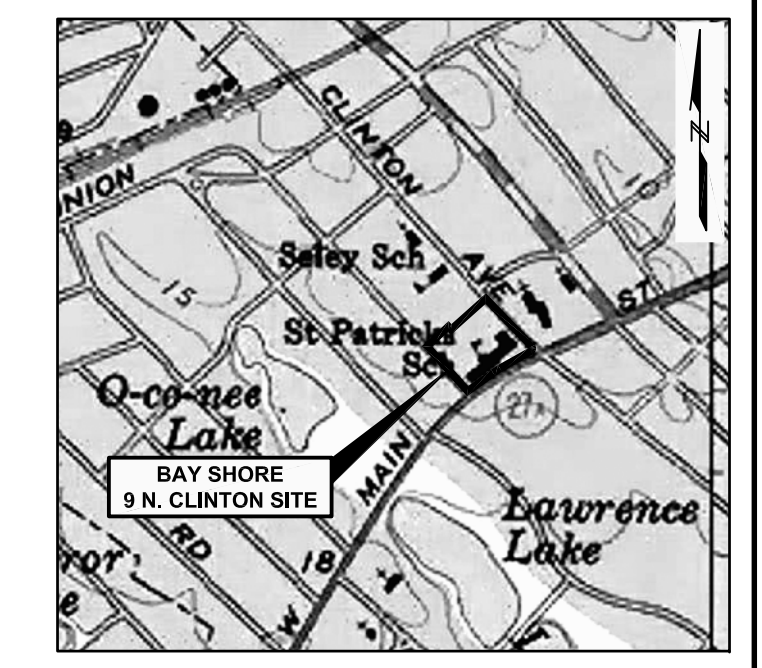
9 N. CLINTON OXYGEN INJECTION SYSTEM LOCATION

December 2010 Figure C1



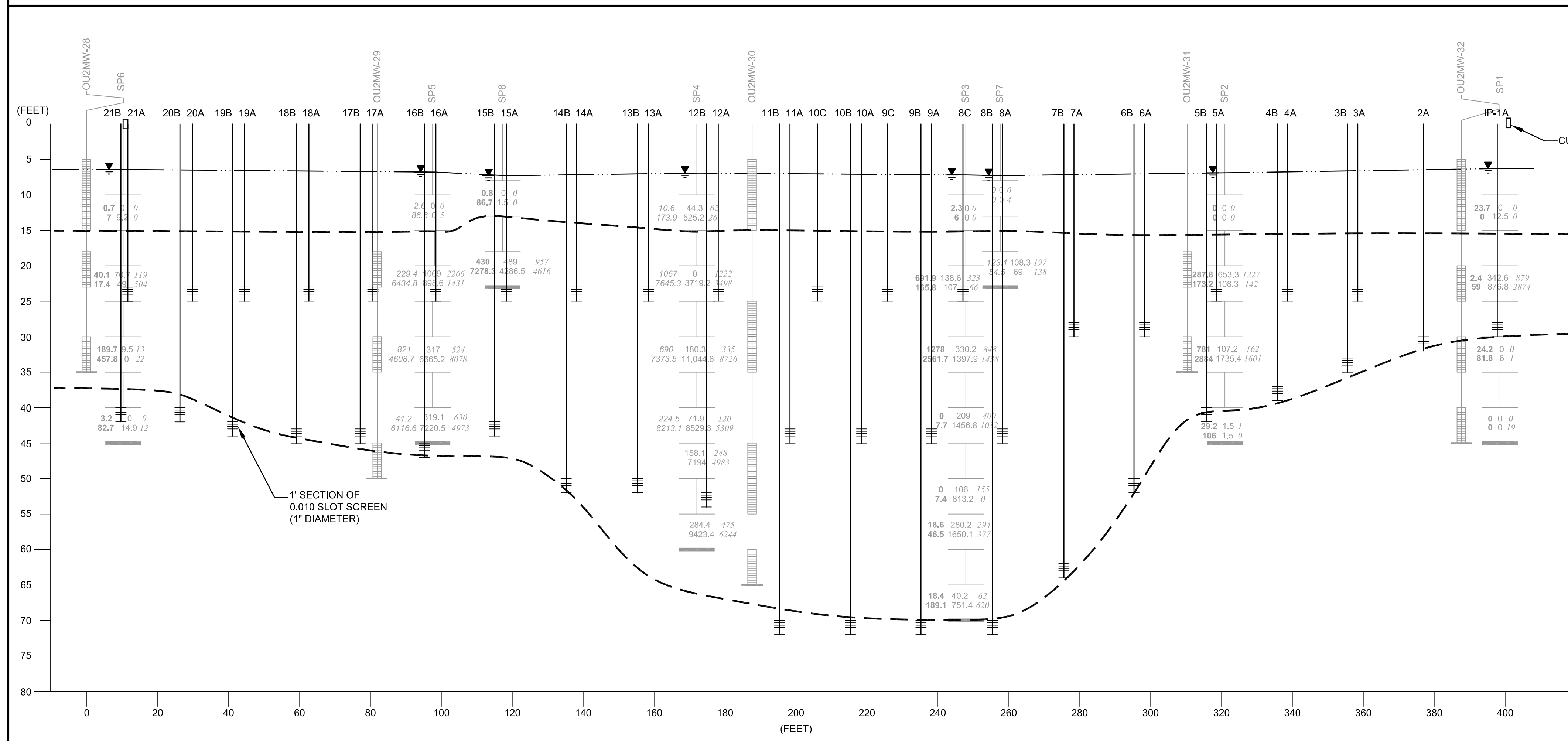
PLAN VIEW

INJECTION POINT	ASSOCIATED SYSTEM	SCREENED INTERVAL (feet bgs)	FILTER PACK (feet bgs)	BENTONITE SEAL (feet bgs)	TOTAL DEPTH (feet bgs)
IP-1A	9 N Clinton	29-30	27-31	25-27	31
IP-2A	9 N Clinton	31-32	29-33	27-29	33
IP-3A	9 N Clinton	24-25	22-26	20-22	26
IP-3B	9 N Clinton	34-36	32-38	30-32	36
IP-4A	9 N Clinton	24-25	22-26	20-22	26
IP-4B	9 N Clinton	38-39	36-40	34-36	40
IP-5A	9 N Clinton	24-25	22-26	20-22	26
IP-5B	9 N Clinton	41-42	39-43	37-39	43
IP-6A	9 N Clinton	29-30	27-31	25-27	31
IP-6B	9 N Clinton	51-52	49-53	47-49	53
IP-7A	9 N Clinton	29-30	27-31	25-27	31
IP-7B	9 N Clinton	63-64	61-65	59-61	65
IP-8A	9 N Clinton	44-45	42-46	40-42	46
IP-8B	9 N Clinton	70-71	68-72	66-68	72
IP-8C	9 N Clinton	24-25	22-26	20-22	26
IP-9A	9 N Clinton	44-45	42-46	40-42	46
IP-9B	9 N Clinton	70-71	68-72	66-68	72
IP-9C	9 N Clinton	24-25	22-26	20-22	26
IP-10A	9 N Clinton	44-45	42-46	40-42	46
IP-10B	9 N Clinton	70-71	68-72	66-68	72
IP-10C	9 N Clinton	24-25	22-26	20-22	26
IP-11A	9 N Clinton	44-45	42-46	40-42	46
IP-11B	9 N Clinton	70-71	68-72	66-68	72
IP-12A	9 N Clinton	24-25	22-26	20-22	26
IP-12B	9 N Clinton	64-65	62-66	60-62	66
IP-13A	9 N Clinton	24-25	22-26	20-22	26
IP-13B	9 N Clinton	57-58	55-59	53-55	59
IP-14A	9 N Clinton	24-25	22-26	20-22	26
IP-14B	9 N Clinton	51-52	49-53	47-49	53
IP-15A	9 N Clinton	24-25	22-26	20-22	26
IP-15B	9 N Clinton	43-44	41-45	39-41	45
IP-16A	9 N Clinton	24-25	22-26	20-22	26
IP-16B	9 N Clinton	46-47	44-48	42-44	48
IP-17A	9 N Clinton	24-25	22-26	20-22	26
IP-17B	9 N Clinton	44-45	42-46	40-42	46
IP-18A	9 N Clinton	24-25	22-26	20-22	26
IP-18B	9 N Clinton	44-45	42-46	40-42	46
IP-19A	9 N Clinton	24-25	22-26	20-22	26
IP-19B	9 N Clinton	43-44	41-45	39-40	45
IP-20A	9 N Clinton	24-25	22-26	20-22	26
IP-20B	9 N Clinton	41-42	39-43	37-39	43
IP-21A	9 N Clinton	24-25	22-26	20-22	26
IP-21B	9 N Clinton	41-42	39-43	37-39	43



SITE LOCATION
SCALE: 1" = 1000'

- LEGEND**
- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
 - ⊕ SP1 SUFFOLK COUNTY GROUNDWATER SAMPLE LOCATION
 - IP-1A PERMANENT SOIL VAPOR SAMPLING LOCATION
 - IP-1A OXYGEN INJECTION POINT ID
 - IP-1A OXYGEN INJECTION POINT LOCATION
 - IP-1A OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
 - ☐ CATCH BASIN
 - ⊙ SANITARY MANHOLE
 - ⊙ UTILITY POLE/GUY POLE
 - GUY WIRE
 - SIGN
 - SECTION VIEW LEGEND
 - FENCE
 - OH — OVERHEAD WIRES
 - (19) FILED MAP LOT NUMBER



CROSS-SECTION VIEW

- EXISTING MONITORING WELL OR MONITORING POINT ID
- EXISTING MONITORING WELL OR MONITORING POINT LOCATION
- TOTAL BTEX ug/L
- TOTAL PAH ug/L
- WATER LEVEL
- MONITORING WELL SAMPLE INTERVAL
- END OF BORING/WELL
- 1.5 SUFFOLK COUNTY QUARTER 2 2007 DATA (ug/L)
- 1.5 SUFFOLK COUNTY QUARTER 4 2007 DATA (ug/L)
- 1.5 SUFFOLK COUNTY QUARTER 1 2008 DATA (ug/L)
- 1.5 GEI CONSULTANTS, INC. QUARTER 1 2008 DATA (ug/L)
- TOTAL BTEX AND PAHs ≥ 100 ug/L
- BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- PAHs POLYCYCLIC AROMATIC HYDROCARBONS
- ug/L MICROGRAMS PER LITER
- IP-1A OXYGEN INJECTION POINT ID
- IP-1A OXYGEN INJECTION POINT LOCATION
- IP-1A 0.010 SLOT SCREEN (1" DIAMETER)

NOTE:
GROUNDWATER DATA SHOWN REFLECTS THE DESIGN DATA SET AND INCLUDES MONITORING WELL DATA COLLECTED QUARTER 1, AND 4, 2007 AND QUARTER 1, 2008 BY GEI CONSULTANTS, INC. AND SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES.

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

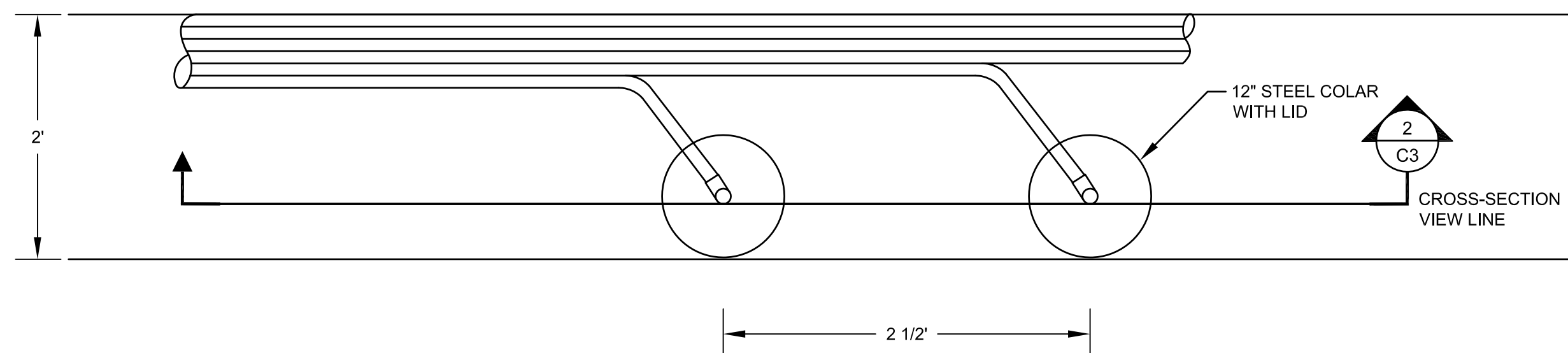
nationalgrid

Project 093180-2-1208

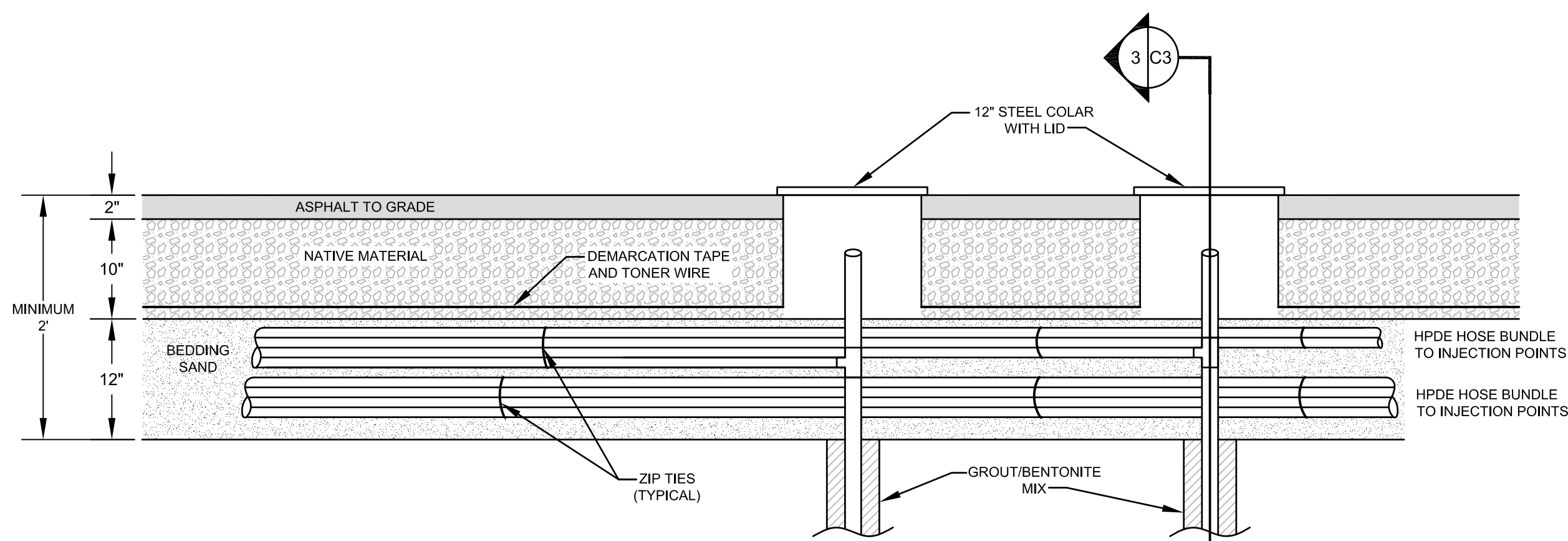
GEI Consultants
110 WALT WHITMAN ROAD
SUITE 204
HUNTINGTON STATION, NY 11746

9 N. CLINTON
OXYGEN INJECTION SYSTEM
PLAN AND PROFILE

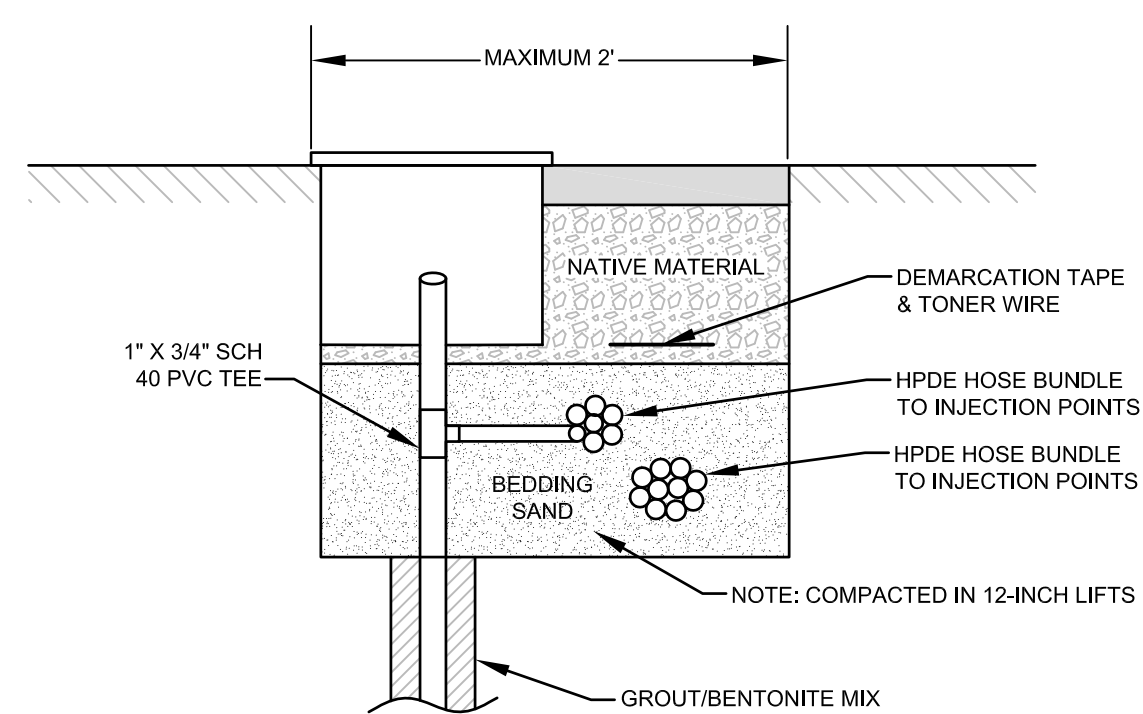
December 2010 Figure C2



1 TYPICAL TRENCH PLAN VIEW
C3

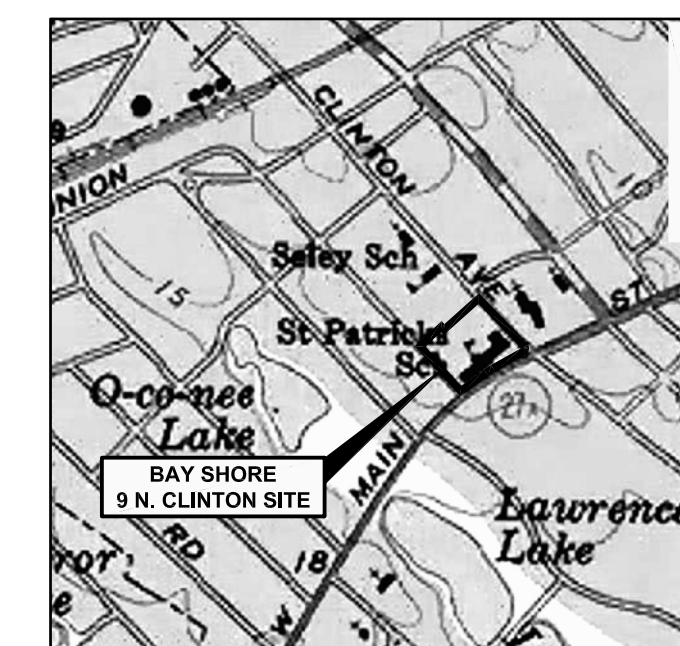


2 TYPICAL TRENCH CROSS SECTION (NE TO SW)
C3

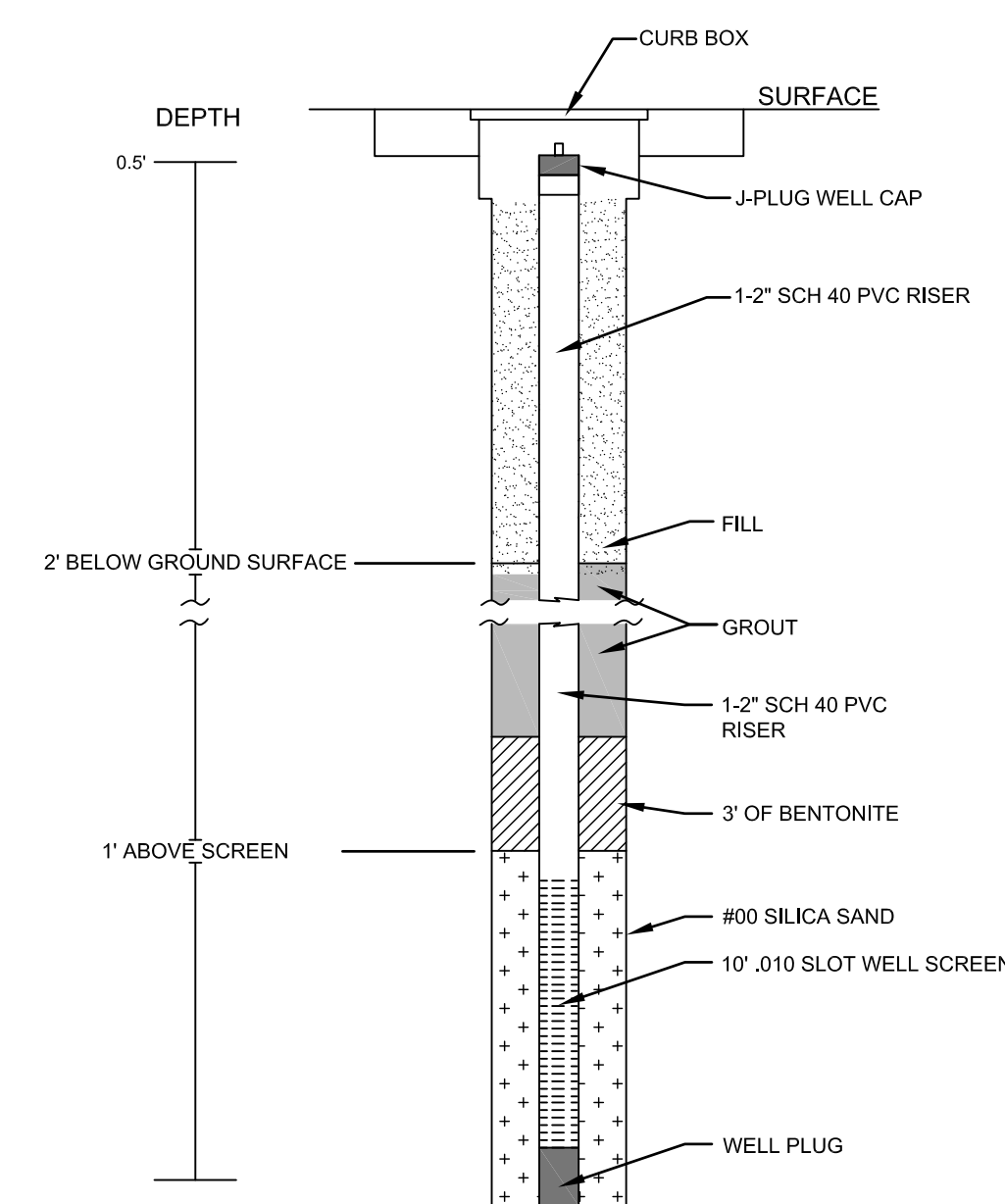


3 TYPICAL TRENCH DETAIL
C3

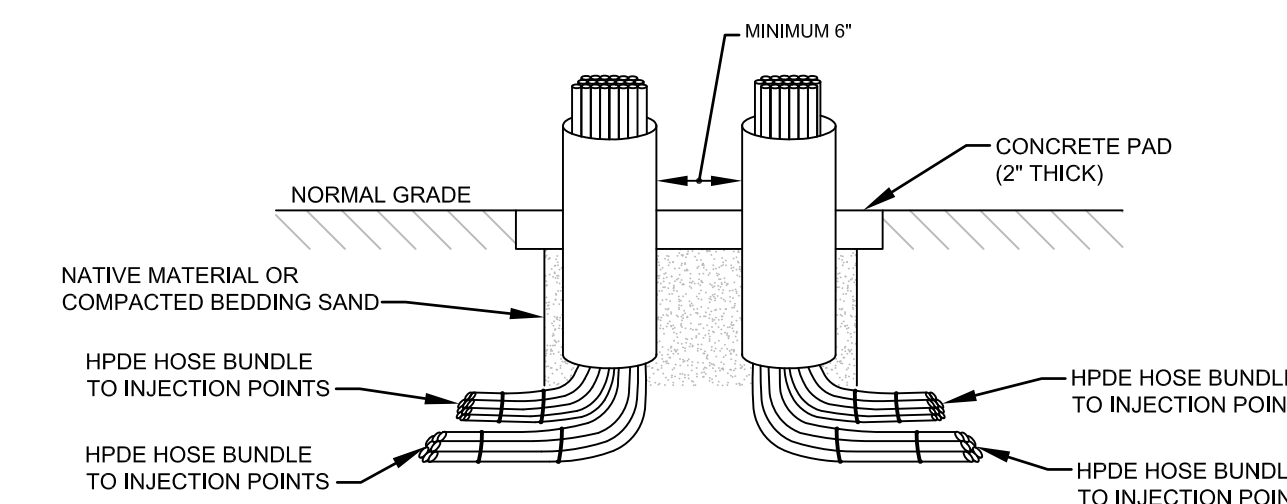
NOTE: NOT TO SCALE



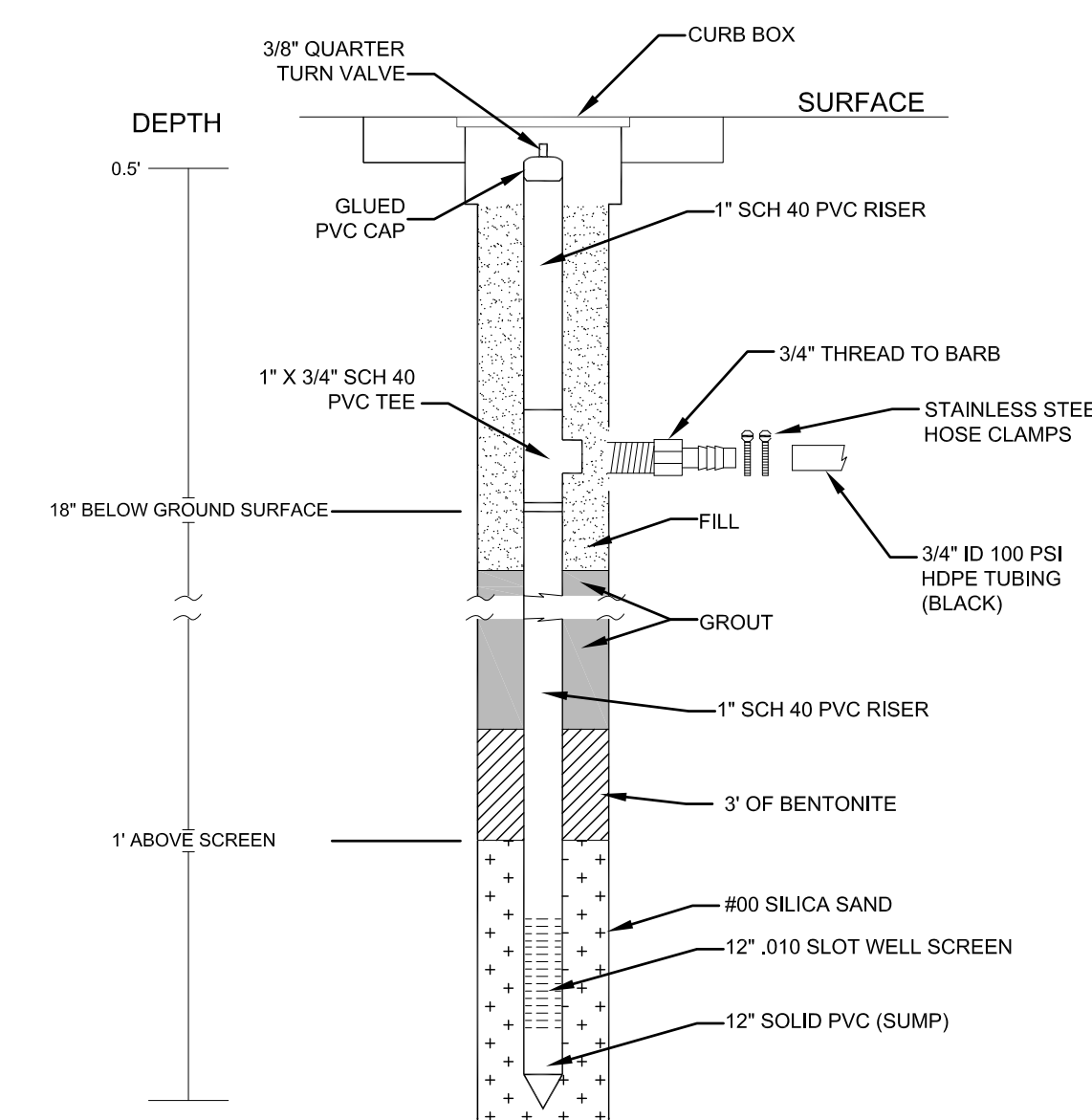
SITE LOCATION
SCALE: 1" = 100'



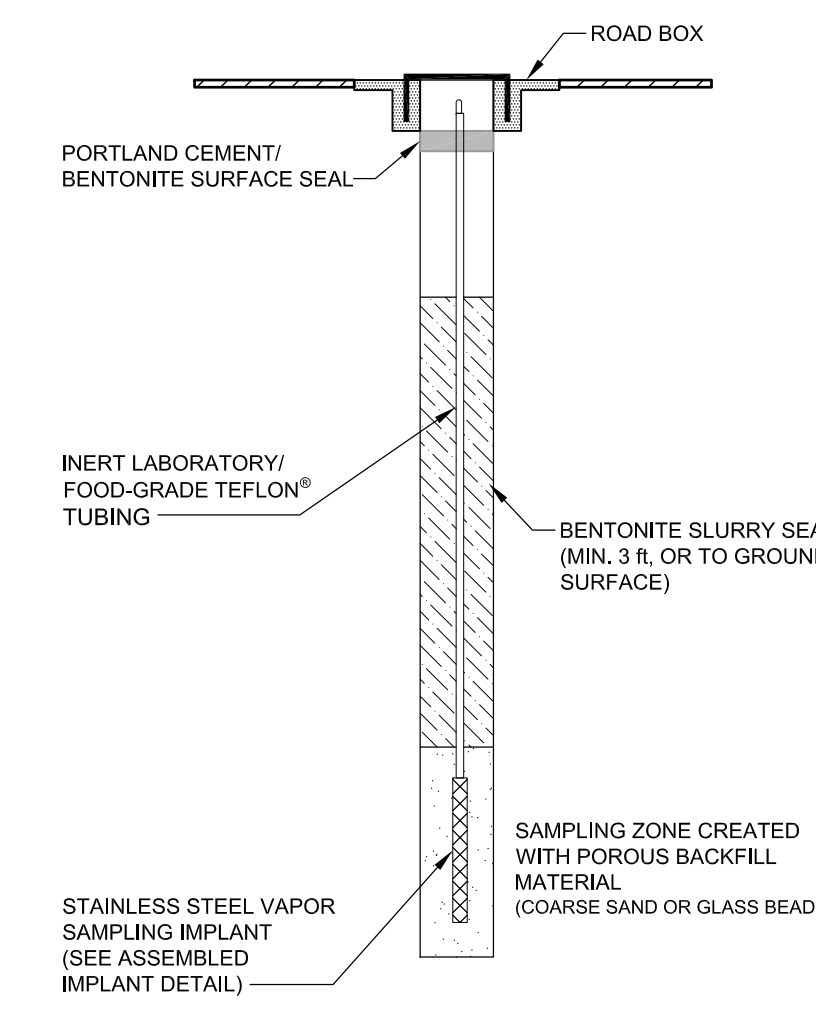
TYPICAL MONITORING WELL DETAIL



STUB-UP DETAIL

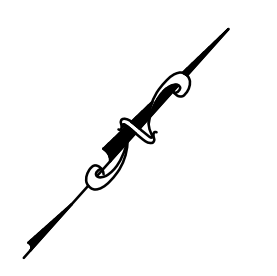


TYPICAL INJECTION WELL DETAIL



PERMANENT SOIL VAPOR POINT DETAIL

OU-2 OXYGEN INJECTION SYSTEMS COMPLETION REPORT BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK		 GEI Consultants 110 WALT WHITMAN ROAD SUITE 204 HUNTINGTON STATION, NY 11746	9 N. CLINTON SYSTEM INSTALLATION DETAILS
 Project 093180-2-1208			



MONITORING WELLS

Well	Elevations			
	NORTHING	EASTING	SG	TOP OF PIPE
OU2MW-28S	202060.588	1190831.888	16.23	16.23
OU2MW-28I	202058.854	1190834.069	16.22	16.27
OU2MW-28I2	202056.564	1190835.611	16.25	16.24
OU2MW-29I	202102.679	1190886.745	16.60	16.50
OU2MW-29I2	202104.643	1190888.427	16.52	16.52
OU2MW-29D	202106.462	1190890.538	16.57	16.56
OU2MW-30S	202174.314	1190964.434	17.54	17.65
OU2MW-30I	202176.170	1190966.312	17.58	17.62
OU2MW-30I2	202177.953	1190968.332	17.65	17.62
OU2MW-30I3	202172.968	1190966.316	17.56	17.68
OU2MW-30D	202176.107	1190970.167	17.66	17.66
OU2MW-30D2	202174.139	1190968.140	17.62	17.66
OU2MW-31I	202285.031	1191054.884	17.21	17.22
OU2MW-31I2	202283.049	1191053.084	17.25	17.22
OU2MW-32S	202363.071	1191080.784	16.22	16.29
OU2MW-32I	202358.266	1191085.266	16.20	16.21
OU2MW-32I2	202356.134	1191087.020	16.19	16.25
OU2MW-32D	202356.481	1191084.765	16.23	16.27
OU2MW-40S	202149.039	1191103.984	16.75	16.81
OU2MW-40I	202148.028	1191102.607	16.77	16.75
OU2MW-41S	202028.114	1191000.058	16.82	16.84
OU2MW-41I	202026.787	1191001.056	16.80	16.79
OU2MW-08S	201933.450	1191050.888	15.32	15.10
OU2MW-08I2	201931.468	1191047.941	15.32	14.50

LEGEND

- ⊕ DRAINAGE MANHOLE
- ▣ CATCH BASIN
- ⊖ INLET
- ⊙ ROOF DRAIN
- ⊕ HYDRANT
- ⊕ WATER VALVE
- ⊕ SANITARY MANHOLE
- ⊕ UNKNOWN MANHOLE
- ⊕ LIGHT
- ⊕ ELECTRIC SERVICE
- ⊕ PULL BOX
- ⊕ TRAFFIC SIGNAL POLE
- ⊕ UTILITY POLE/GUY POLE
- ⊕ GUY WIRE
- ⊕ MONITOR WELL
- ⊕ INJECTION WELL
- ⊕ SIGN
- ⊕ SPOT ELEVATION
- ⊕ DECIDUOUS TREE
- CURB
- DROP CURB
- ▣ MONUMENT
- ▣ BENCH MARK
- OVERHEAD WIRES
- FENCE
- CONTOUR
- TOP/BOT CURB GRADE
- TOP/BOT WALL GRADE
- ⊕ PARKING STALL COUNT
- (320) FILE MAP LOT NUMBER
- ROOF LEADER
- WATER MAIN
- UNDERGROUND GAS
- SANITARY SEWER
- UNDERGROUND ELECTRIC
- CTV UNDERGROUND CABLE

NOTE

- ELEVATIONS BASED ON N.A.V.D. 1988.
- PROPERTY REFERENCES NEW YORK STATE PLANE COORDINATE SYSTEM N.A.D. 1983.
- THE OFFSETS AND DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE AND ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES WALLS POOLS PATIOS ADDITIONS TO BUILDINGS AND ANY OTHER CONSTRUCTION.

ABBREVIATIONS

- CONC. = CONCRETE
- No. = NORTH
- So. = SOUTH
- E. = EAST
- W. = WEST
- ELEV. = ELEVATION
- GAR. = GARAGE
- INV. = INVERT
- TOP = TOP OF PIPE
- SG = SPOT GRADE

JOHN SCHNURR, P.L.S. LIC. No. 49517

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 ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS
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 MELVILLE, N.Y. • PARSIPPANY, N.J. • www.h2m.com
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SURVEYED BY: JSG/AAM	DRAWN BY: JSG	CHECKED BY:	PROJECT NO.: GEIC-0801	SCALE: 1"=20 FEET	DATE: 10/13/08
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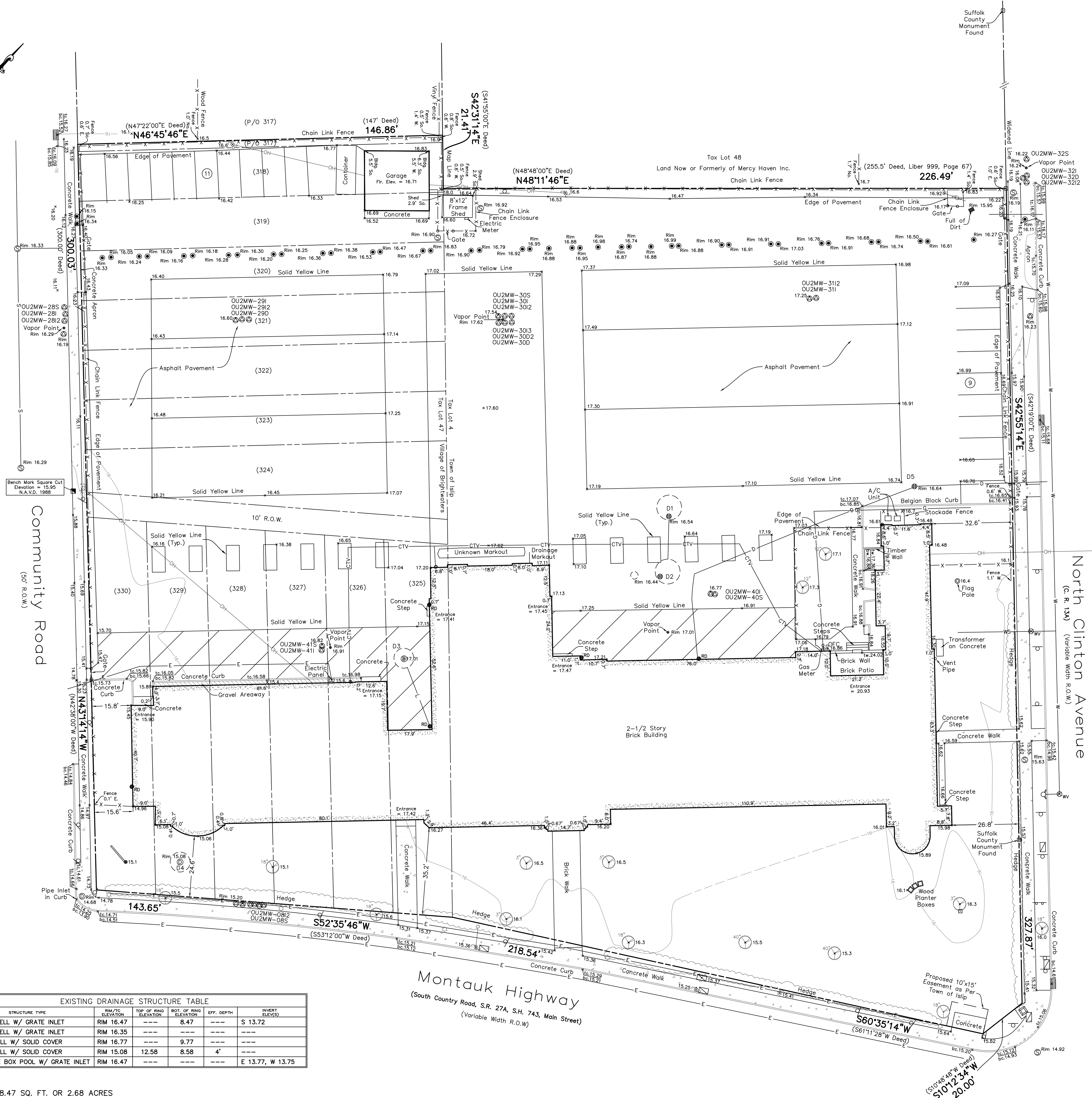
REVISOR:
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SURVEY FOR
GEI CONSULTANTS, INC.
 MONITORING WELLS, SOIL VAPOR POINTS AND SYSTEM INJECTION WELLS
 SCTM: DISTRICT 500, SECTION 392, BLOCK 03, LOT 47
 SCTM: DISTRICT 500, SECTION 419, BLOCK 01, LOT 04
 BAYSHORE TOWN OF ISLIP SUFFOLK COUNTY NEW YORK

LOTS 318-330 INCL., P/O LOT 317 AND A PLOT MARKED 10' RIGHT OF WAY
 SECOND AMENDED MAP OF
LAWRANCE FARM CORPORATION
 SECTION TWO
 FILED: APR. 10, 1925, FILE No.: 210
 AND DESCRIBED PROPERTY

STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEVATION	TOP OF RING ELEVATION	BOIT OF RING ELEVATION	EFF. DEPTH	INVERT ELEV(S)
D1	10" DRYWELL W/ GRATE INLET	16.47	---	8.47	---	S 13.72
D2	10" DRYWELL W/ GRATE INLET	16.35	---	---	---	---
D3	8" DRYWELL W/ SOLID COVER	16.77	---	9.77	---	---
D4	8" DRYWELL W/ SOLID COVER	15.08	12.58	8.58	4'	---
D5	4' SQUARE BOX POOL W/ GRATE INLET	16.47	---	---	---	E 13.77, W 13.75

AREA: 116,888.47 SQ. FT. OR 2.68 ACRES



Montauk Highway
 (South Country Road, S.R. 27A, S.H. 743, Main Street)
 (Variable Width R.O.W.)

North Clinton Avenue
 (C. R. 13A) (Variable Width R.O.W.)

Community Road
 (50' R.O.W.)



Parking lot before restoration



Breaking through asphalt to pre clear for injection point locations



Preparing to install an injection point

9 North Clinton Ave. Photo Log Appendix C



Installed injection points in NE corner of property



Saw cutting asphalt for trench location



Chain link fence
for containing
the work zone



Trenching for HDPE injection lines



Compacting base of trench



Backfilling above
SVE lines



Demarcation tape labeled "Caution Buried Gas Line Below"



HDPE injection lines connected to injection point fittings



Backfilling the trench with clean bedding sand



Trench backfilled to grade



Installation of monitoring well cluster



Abandoning county monitoring wells



Pulverizing parking lot



Paving parking lot

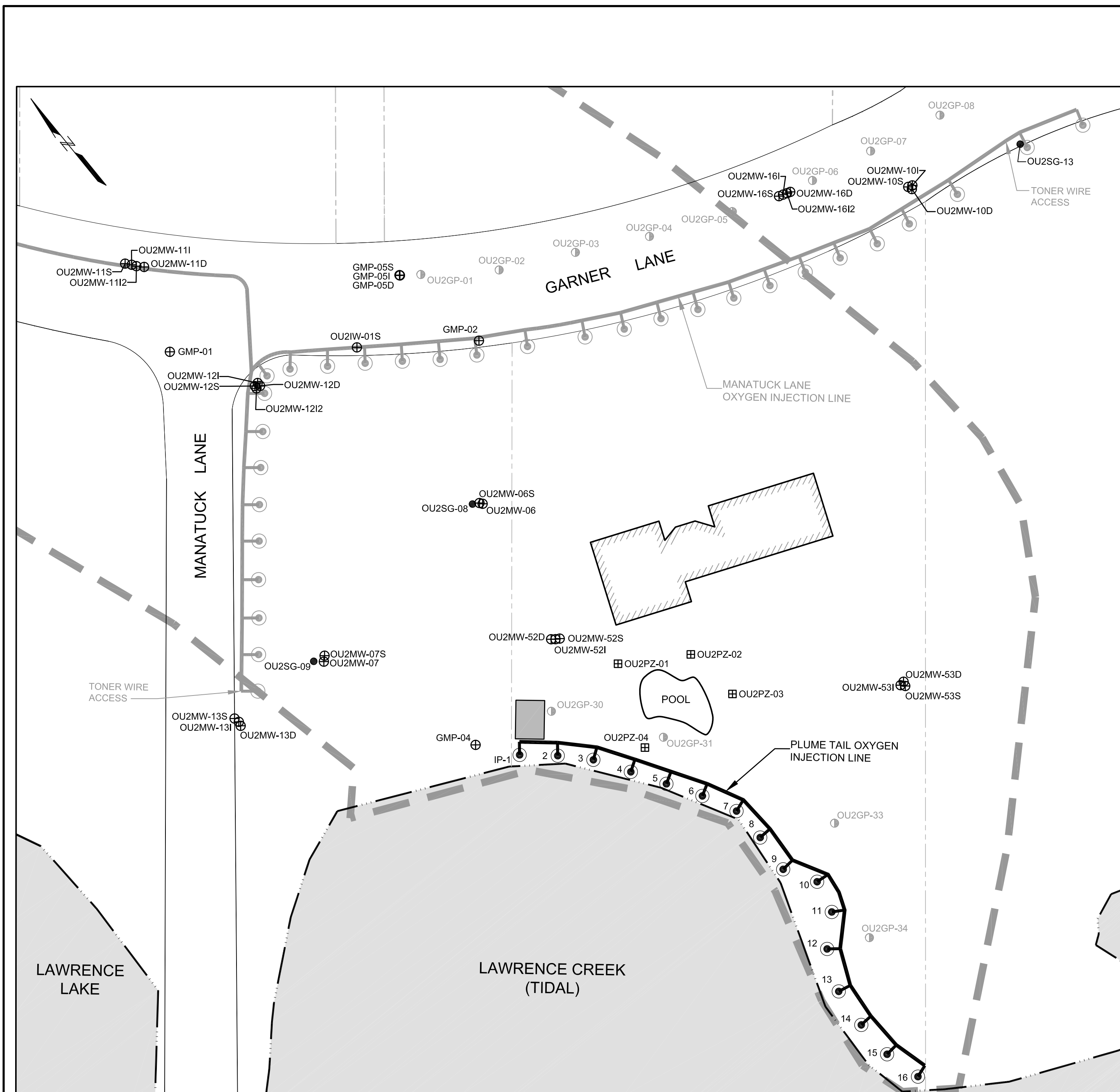


Oxygen Injection System Shed

9 North Clinton Ave. Photo Log Appendix C

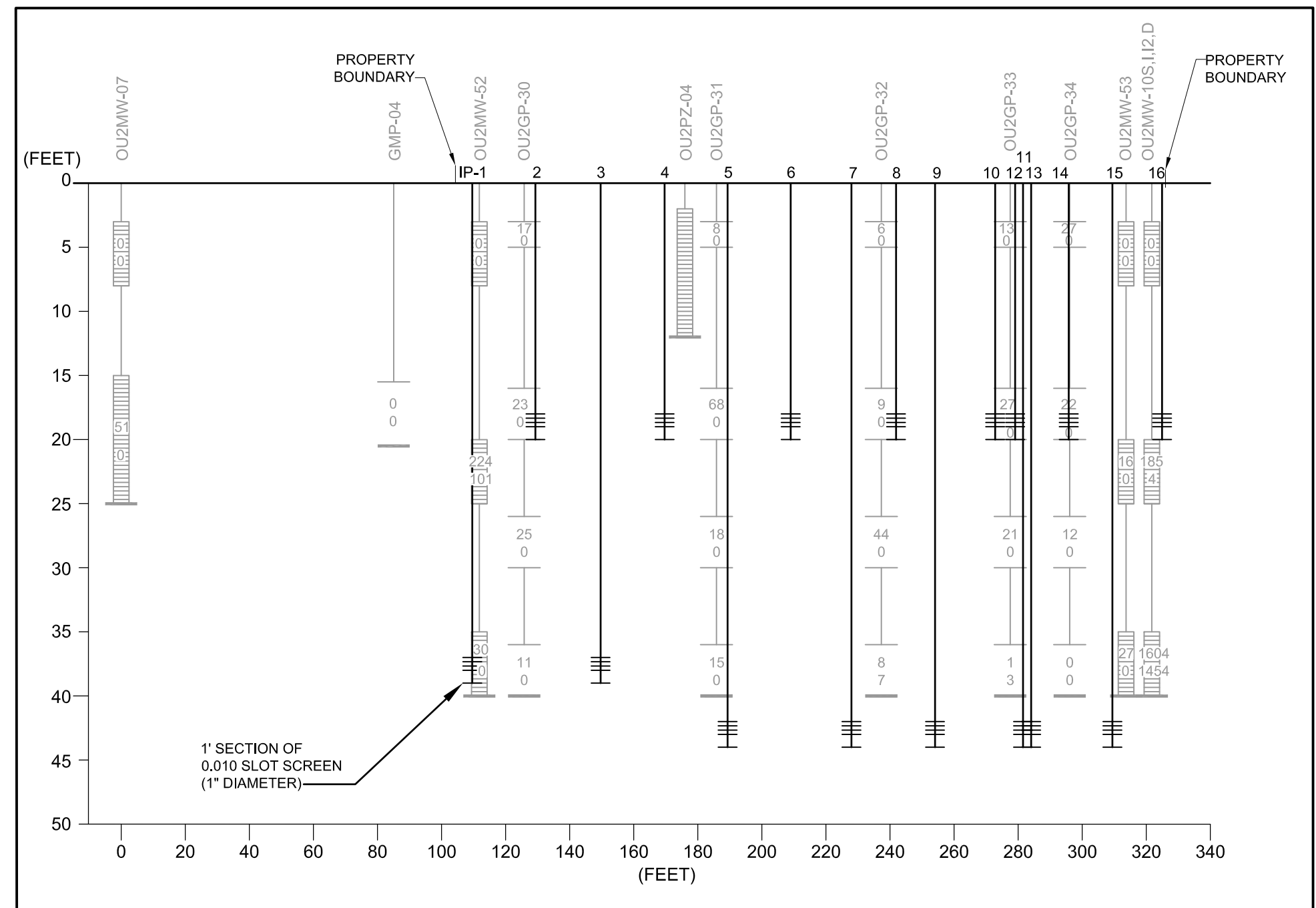
Appendix D

Plume Tail System Installation Drawings, Record Drawing, and Photo Log

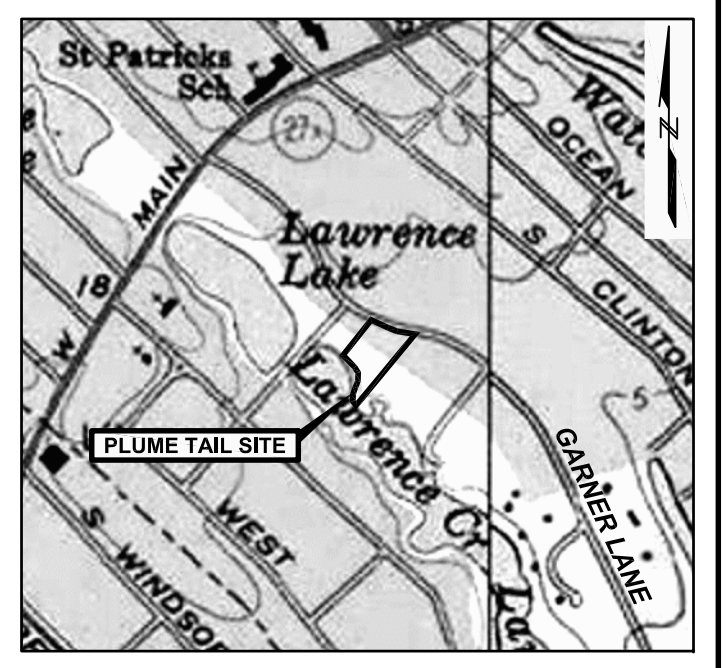


PLAN VIEW

INJECTION POINT	ASSOCIATED SYSTEM	SCREENED INTERVAL (feet bgs)	FILTER PACK (feet bgs)	BENTONITE SEAL (feet bgs)	TOTAL DEPTH (feet bgs)
IP-1	Plume Tail	38-39	36-40	34-36	40
IP-2	Plume Tail	18-19	16-20	14-16	20
IP-3	Plume Tail	38-39	36-40	34-36	40
IP-4	Plume Tail	18-19	16-20	14-16	20
IP-5	Plume Tail	43-44	41-45	39-41	45
IP-6	Plume Tail	18-19	16-20	14-16	20
IP-7	Plume Tail	43-44	41-45	39-41	45
IP-8	Plume Tail	18-19	16-20	14-16	20
IP-9	Plume Tail	43-44	41-45	39-41	45
IP-10	Plume Tail	18-19	16-20	14-16	20
IP-11	Plume Tail	43-44	41-45	39-41	45
IP-12	Plume Tail	18-19	16-20	14-16	20
IP-13	Plume Tail	43-44	41-45	39-41	45
IP-14	Plume Tail	18-19	16-20	14-16	20
IP-15	Plume Tail	43-44	41-45	39-41	45
IP-16	Plume Tail	18-19	16-20	14-16	20



CROSS-SECTION VIEW



- LEGEND**
- ⊕ OU2MW-01S EXISTING MONITORING WELL LOCATION
S=SHALLOW, I=INTERMEDIATE, I2= INTERMEDIATE TWO, D=DEEP
 - ⊕ GMP-05S GMP-05I GMP-05D APPROXIMATE MONITORING WELL CLUSTER LOCATION
S=SHALLOW, I=INTERMEDIATE, D=DEEP
 - ⊞ OU2PZ-01 PIEZOMETER LOCATION
 - OU2SG-08 PERMANENT SOIL VAPOR LOCATION
 - ⊙ OU2GP-30 GROUNDWATER PROBE LOCATION
 - OU-2 EXTENT FROM 2004 RI BASED ON >100 ug/L TOTAL BTEX OR >100 ug/L TOTAL PAHs DETECTED IN GROUNDWATER
 - IP-1 OXYGEN INJECTION POINT ID
 - ⊞ OXYGEN INJECTION POINT LOCATION
 - 0.010 SLOT SCREEN (1" DIAMETER)
 - 3A 3B OXYGEN INJECTION POINT ID
 - ⊞ OXYGEN INJECTION POINT LOCATION
 - OXYGEN INJECTION LINE LOCATION (APPROXIMATE)
- SECTION VIEW LEGEND**
- ⊞ EXISTING OR PROPOSED MONITORING WELL OR MONITORING POINT ID
 - ⊞ EXISTING OR PROPOSED MONITORING WELL OR MONITORING POINT LOCATION
 - 8 0 TOTAL VOCs ug/L
 - 0 0 TOTAL SVOCs ug/L
 - WATER LEVEL
 - ⊞ MONITORING WELL SAMPLE INTERVAL
 - ⊞ END OF BORING/WELL
 - VOCs VOLATILE ORGANIC COMPOUNDS
 - SVOCs SEMI-VOLATILE ORGANIC COMPOUNDS
 - ug/L MICROGRAMS PER LITER

SOURCES:

1. PLUME BOUNDARY OBTAINED FROM MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE, FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. WELL SURVEY CONDUCTED IN NOVEMBER 2007 BY NELSON & POPE, 572 WALT WHITMAN ROAD, MELVILLE, NEW YORK.
3. OXYGEN INJECTION SYSTEM AND SOME MONITORING WELL AND SOIL VAPOR POINTS LOCATED BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146 IN 2009.
4. PROPERTY LINES ARE APPROXIMATE AND DETERMINED FROM AERIAL PHOTOGRAPHS AND TAX MAPS.

NOTES:

- GROUNDWATER DATA SHOWN REFLECTS THE DESIGN DATA SET AND INCLUDES:
- GROUNDWATER PROBE DATA COLLECTED QUARTER 1, 2009 BY GEI CONSULTANTS, INC.
 - MONITORING WELL DATA COLLECTED QUARTER 4, 2008 BY GEI CONSULTANTS, INC.

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK

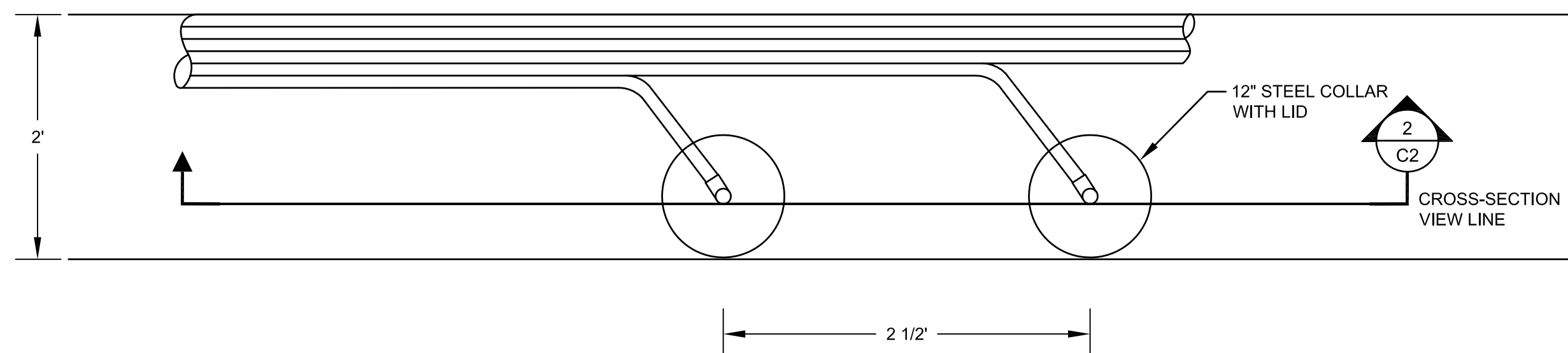
nationalgrid

Project 093180-2-1208

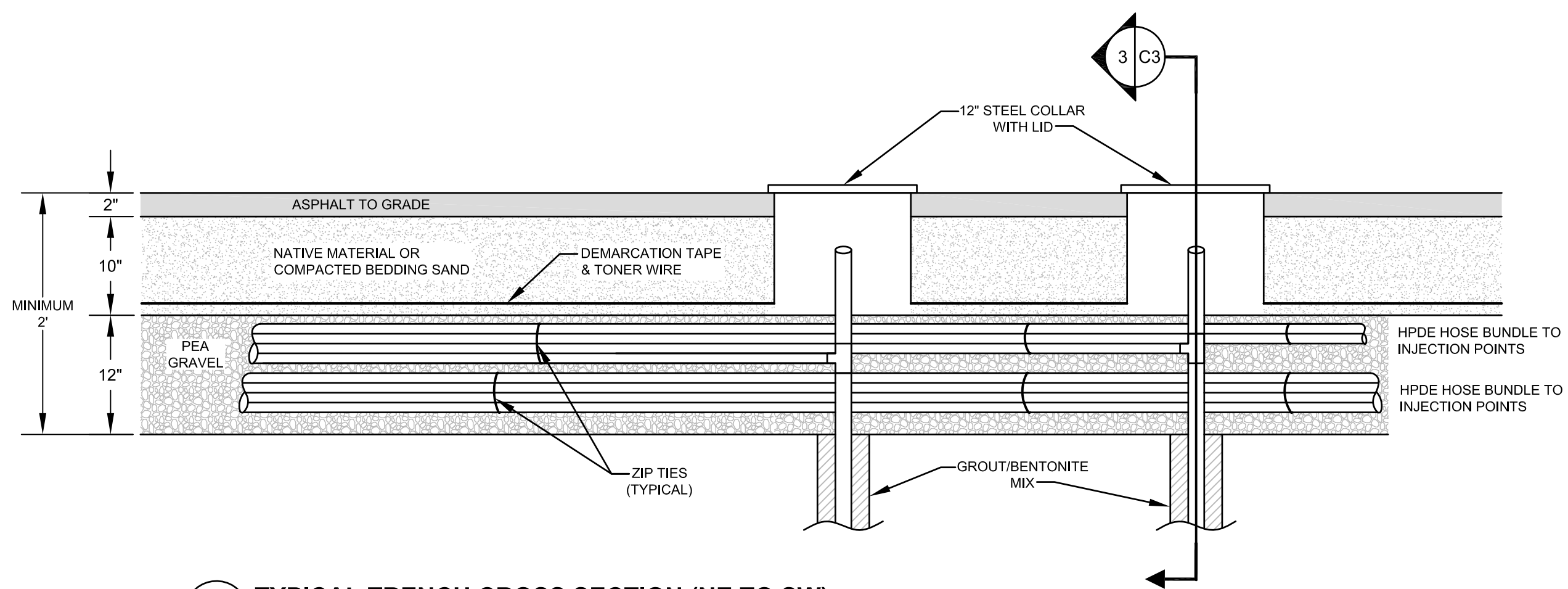


**PLUME TAIL
OXYGEN INJECTION SYSTEM
PLAN AND PROFILE**

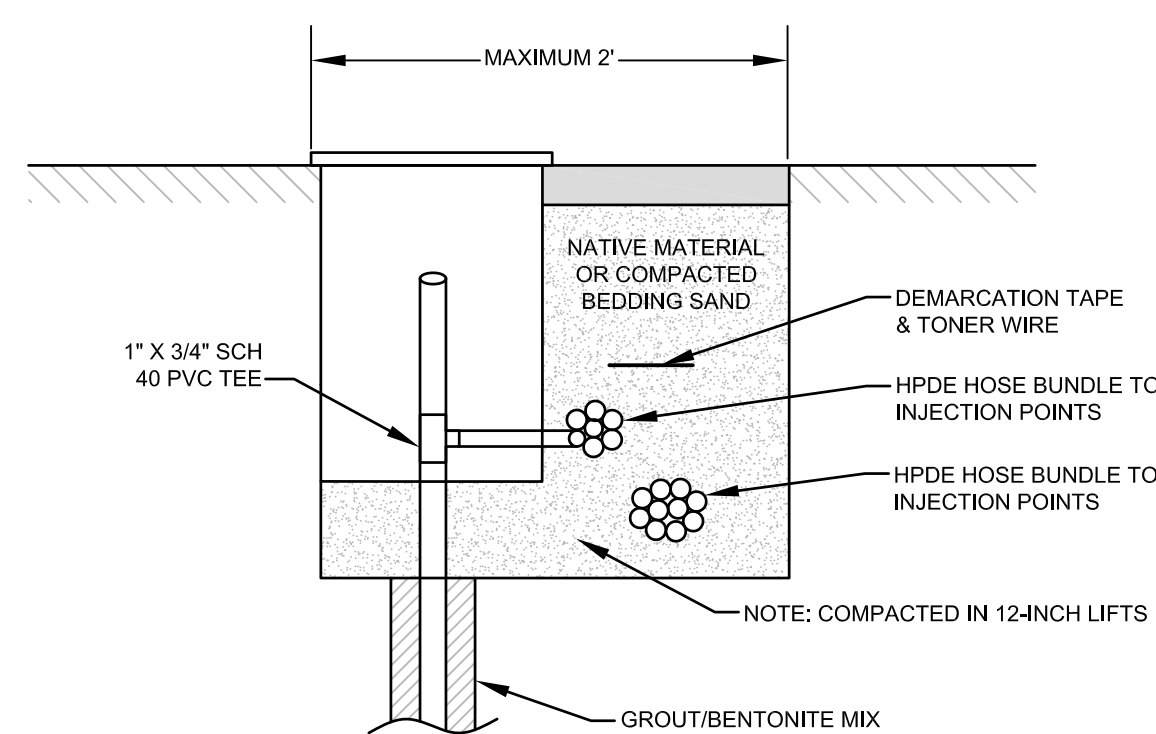
I:\Project\National Grid\Bay Shore\O2 Supp Systems Installation Report\COMPLETION REPORT\Supplemental Systems\BAY SHORE-PLUME TAIL Plan Sheets.dwg | Dec 08, 2010



1 TYPICAL TRENCH PLAN VIEW
C2

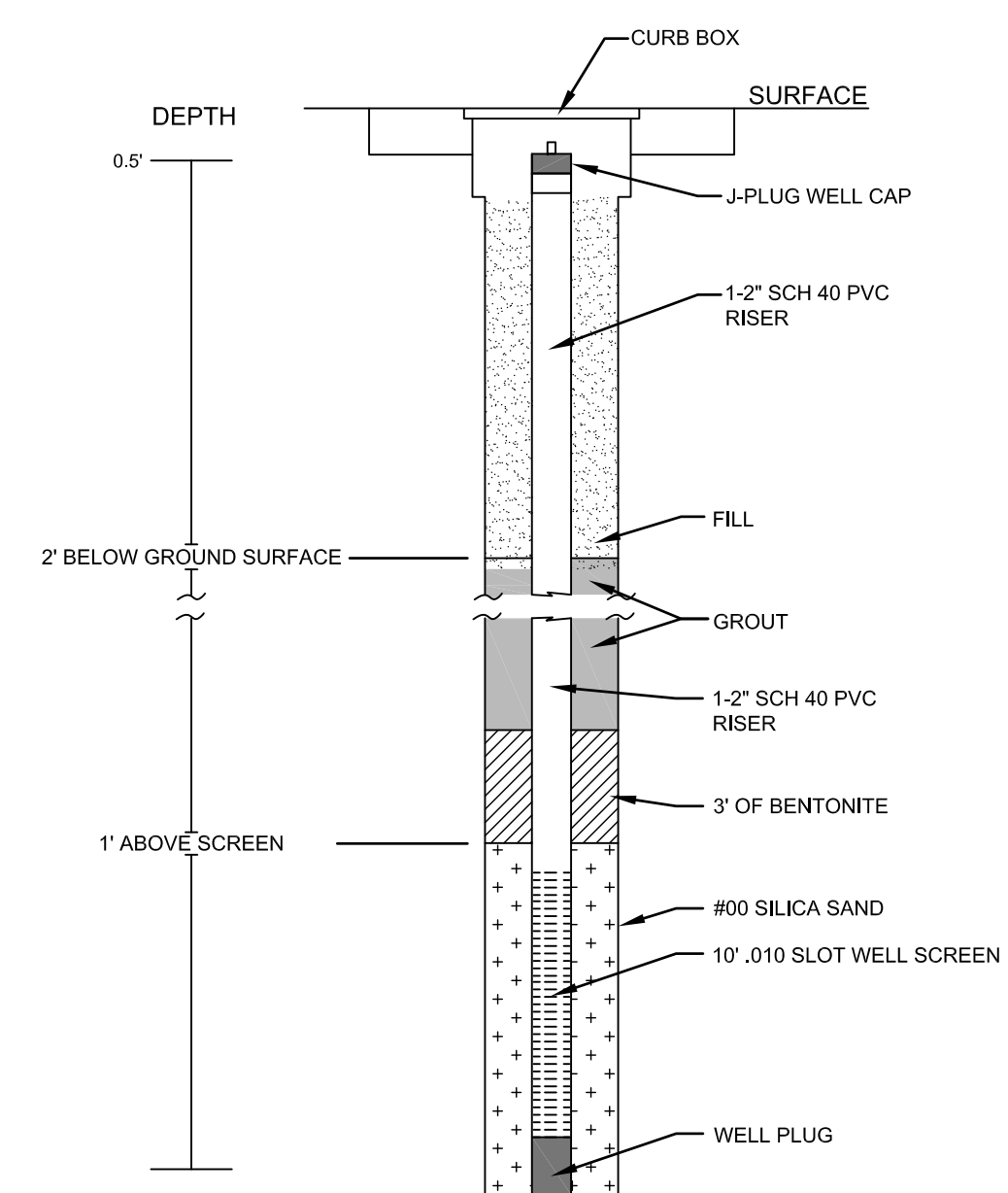


2 TYPICAL TRENCH CROSS SECTION (NE TO SW)
C2

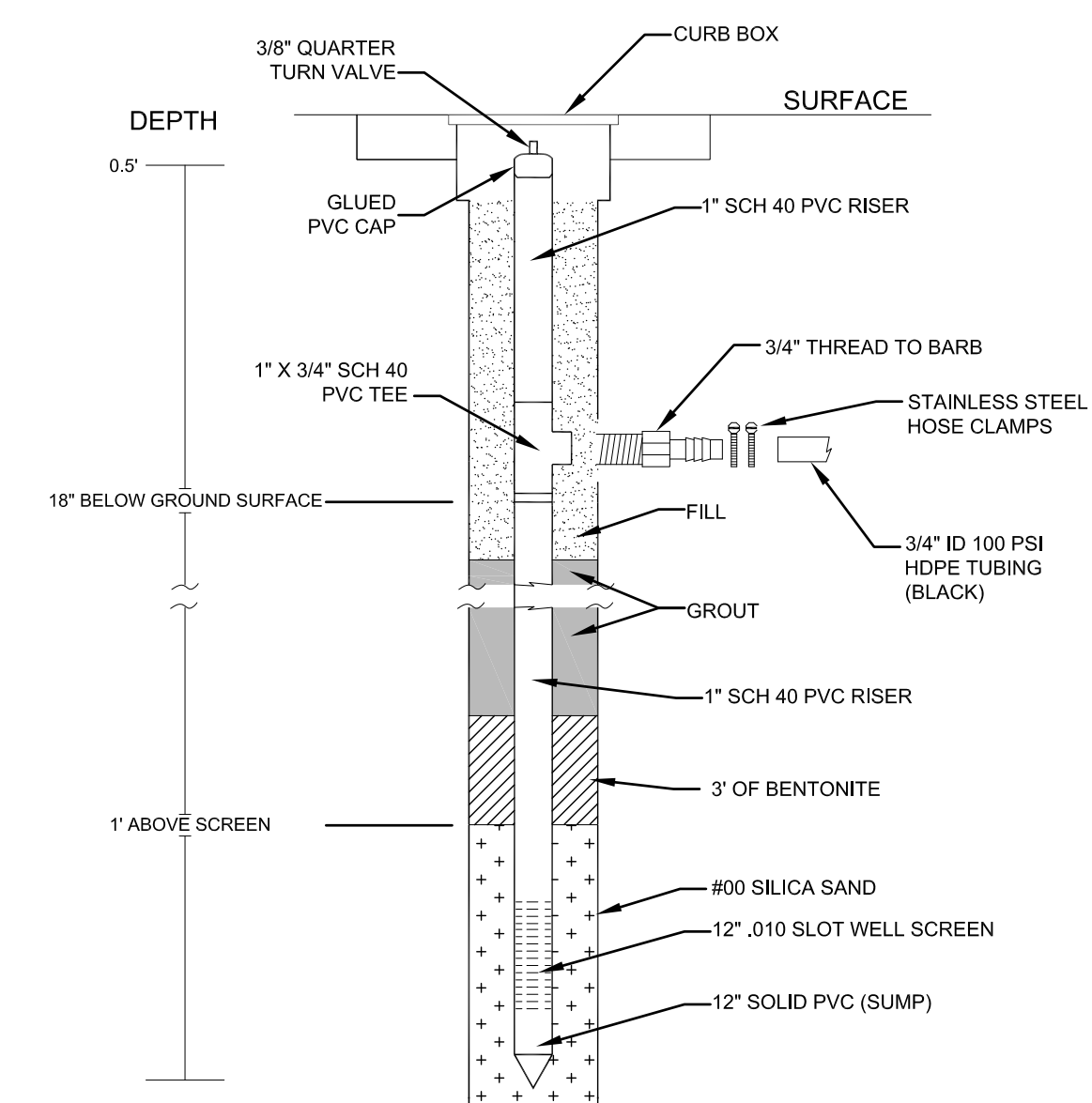


3 TYPICAL TRENCH DETAIL
C2

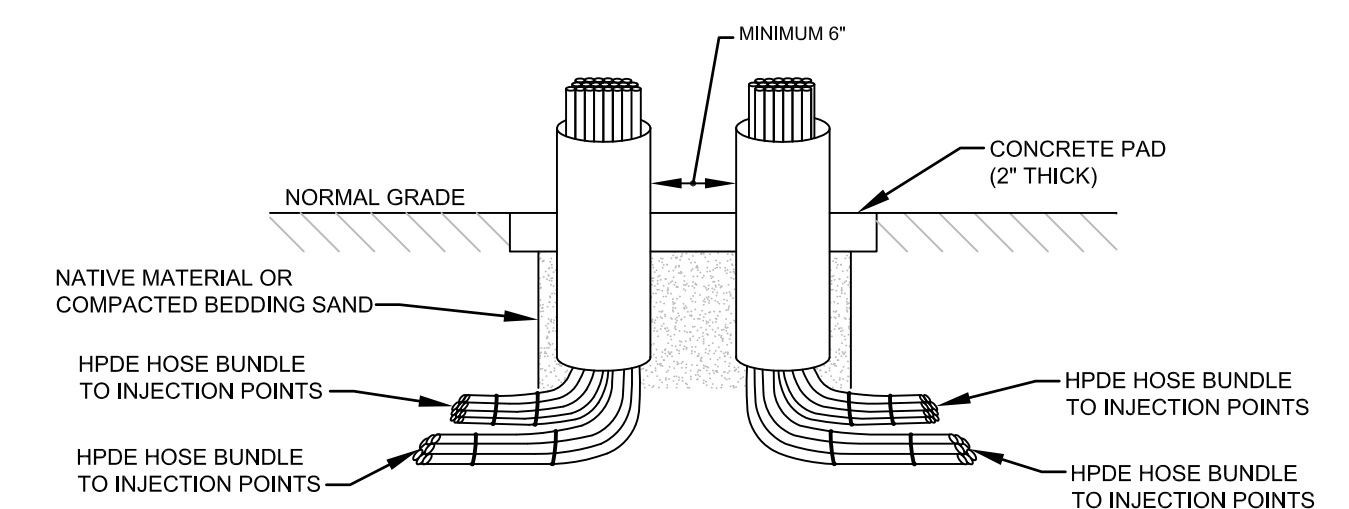
NOTE: NOT TO SCALE



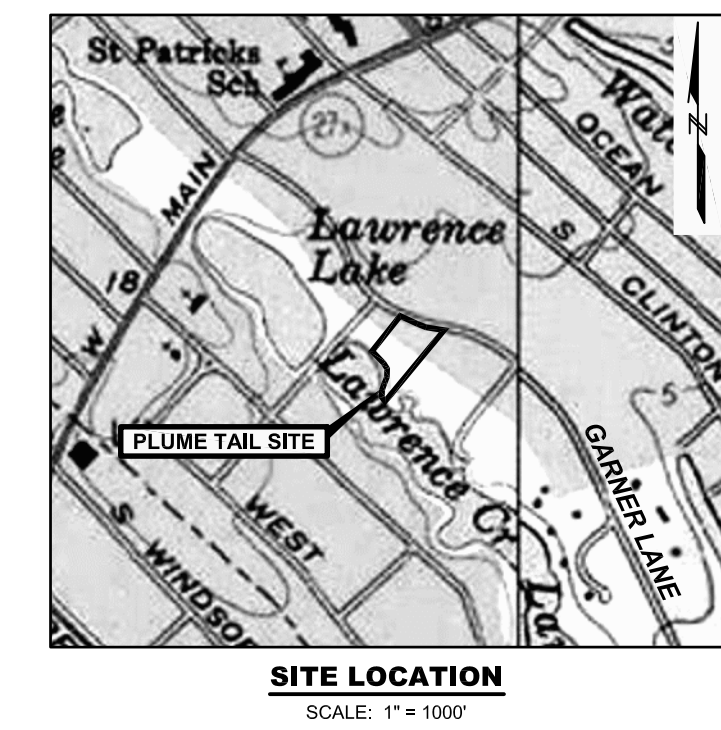
TYPICAL MONITORING WELL DETAIL



TYPICAL INJECTION WELL DETAIL



STUB-UP DETAIL



SITE LOCATION
SCALE: 1" = 100'

OU-2 OXYGEN INJECTION SYSTEMS
COMPLETION REPORT
BAY SHORE/BRIGHTWATERS FORMER MGP SITE
BAY SHORE, NEW YORK
nationalgrid
Project 093180-2-1208

GEI Consultants
110 WALT WHITMAN ROAD
SUITE 204
HUNTINGTON STATION, NY 11746

PLUME TAIL SYSTEM
INSTALLATION DETAILS

December 2010

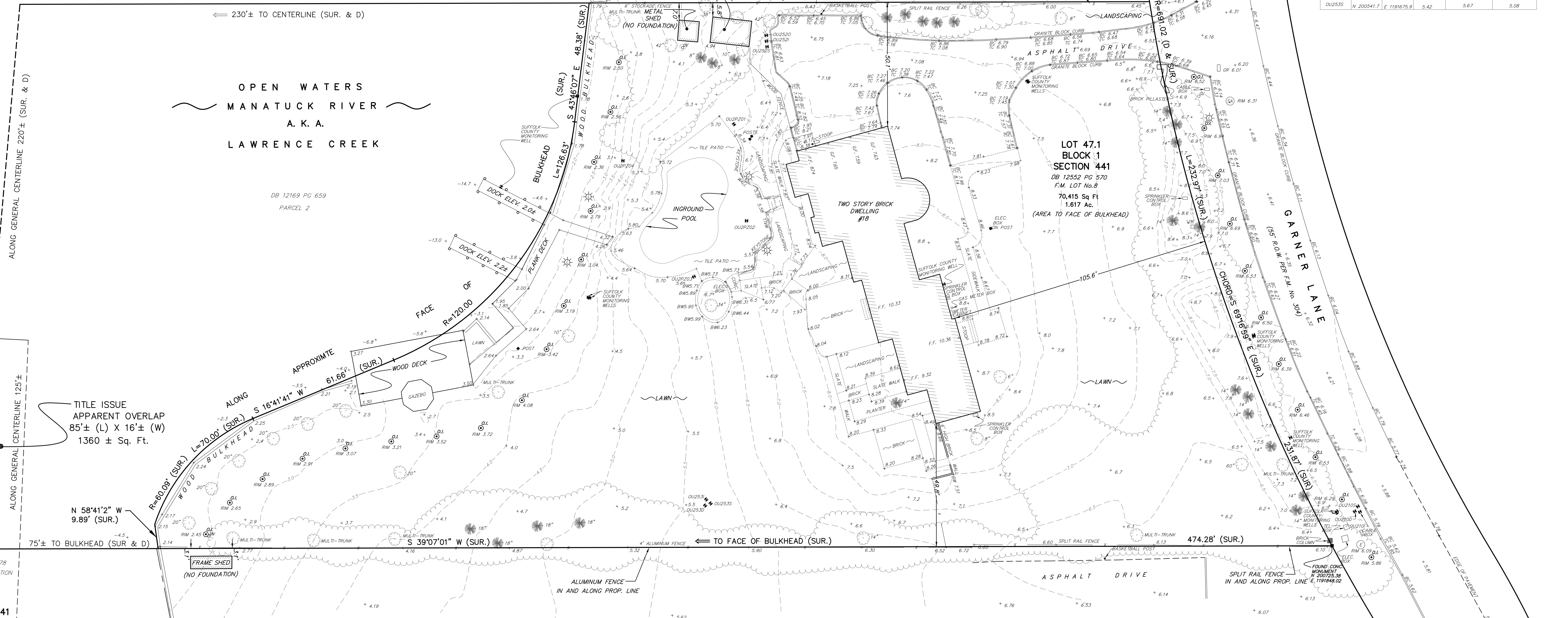
Figure D2

N.Y.L.S.P.C.S.
NAD83

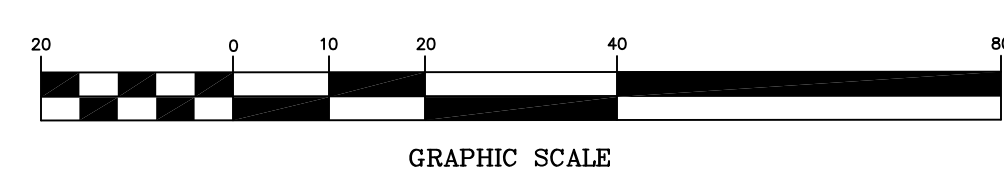
LOT 49.1
BLOCK 1
SECTION 441
F.M. LOT DESIGNATED AS
"RESERVED FOR CLUB PURPOSES"

MONITORING WELL TABLE

ID No.	NORTH	EAST	RIM ELEV.	GROUND ELEV.	P.V.C. ELEV.
OU2100	N 2002741.3	E 1191843.0	5.72	6.11	5.53
OU2101	N 2002742.8	E 1191844.5	5.71	6.11	5.48
OU2105	N 2002743.5	E 1191842.3	5.69	6.18	5.38
OU2525	N 2006762.2	E 1191543.4	6.21	6.45	5.89
OU2520	N 200678.8	E 1191543.7	6.00	6.32	5.79
OU2521	N 200677.4	E 1191545.5	6.03	6.39	5.74
OU2P201	N 200646.0	E 1191563.2	5.74	5.59	5.52
OU2P202	N 200625.2	E 1191596.6	5.73	5.73	5.45
OU2P203	N 200594.5	E 1191600.7	5.82	5.69	5.49
OU2P204	N 200601.9	E 1191546.2	3.48	3.49	3.23
OU2530	N 200539.5	E 1191675.1	5.37	5.59	5.17
OU2531	N 200541.4	E 1191673.5	5.38	5.61	5.07
OU2535	N 200541.7	E 1191675.9	5.42	5.67	5.08



- LEGEND:**
- - INLET (RECT.)
 - ⊞ - METER WATER
 - ⊙ - ELECTRIC MANHOLE
 - ⊞ - MONITORING WELL
 - ⊙ - OXYGEN INJECTOR MANHOLE
 - ⊙ - UNKNOWN VALVE
 - F.F. - FINISHED FLOOR ELEV.
 - G.F. - GARAGE FLOOR ELEV.
 - ☎ - CONIFEROUS TREE
 - 🌳 - DECIDUOUS TREE
 - - - - - FENCE LINES
 - — — — — TREE LINE
 - BW - BOTTOM OF WALL



NOTES:

- HORIZONTAL DATUM NEW YORK LONG ISLAND STATE PLANE COORDINATE SYSTEM (NAD 83), VERTICAL DATUM (NAVD 88), ESTABLISHED BY GLOBAL POSITIONING SYSTEM METHODOLOGY
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD WHICH AN ACCURATE TITLE REPORT MAY DISCLOSE.
- SUBJECT PROPERTY IS KNOWN AND DESIGNATED AS LOT 8 ON A CERTAIN MAP ENTITLED "FIRST AMENDED MAP OF O-CO-NEE, BAYSHORE, SUFFOLK CO., NY, PROPERTY OF CL LAWRENCE CORPORATION DATED AUGUST 1917", FILED IN THE SUFFOLK COUNTY CLERK'S OFFICE ON MAY 27, 1918, AS FILED MAP No. 304.
- PROPERTY CORNERS HAVE NOT BEEN SET PER CONTRACTUAL AGREEMENT.
- CONTOUR INTERVAL 0.5 FEET.

DESIGNED BY:	DRAWN BY: TOT	CHECKED BY:	BOUNDARY AND TOPOGRAPHIC SURVEY
PRELIMINARY			
			ROBERT A. RYAN PROFESSIONAL LAND SURVEYOR N.Y. LICENSE NO. 49728
SECTION 441, BLOCK 1, LOT 47.1 TOWN OF ISLIP, COUNTY OF SUFFOLK, NEW YORK			
			KSE KS ENGINEERS, P.C.
Engineers • Surveyors • Construction Managers 494 Broad Street, Newark, N.J. 07102 Phone: (973) 623-2999, Fax: (973) 623-2988			
			DATE: 8/18/10 PROJECT NO.: 965.05 SHEET NO.: 2 OF 2

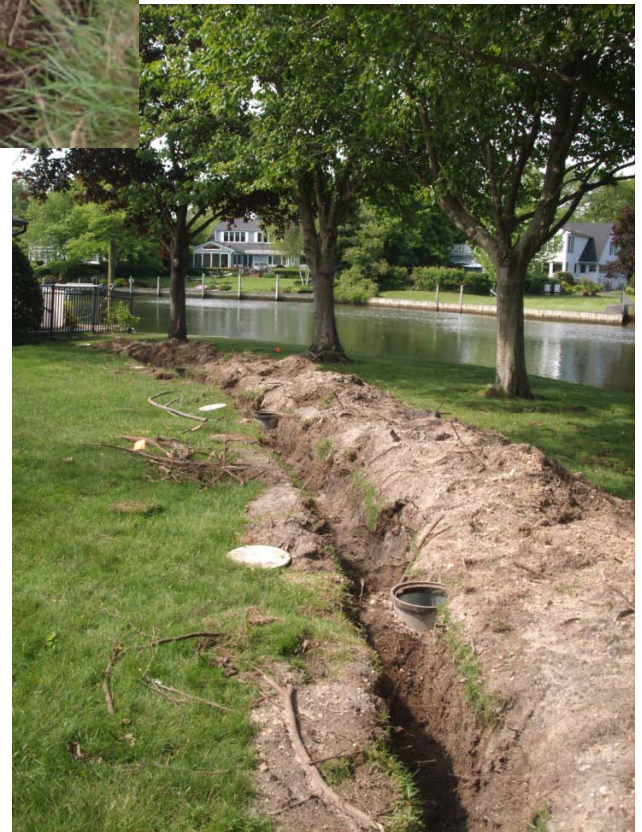


Injection well with connector fitting in curb box



Demarcation tape labeled "Caution Buried Gas Line Below"

HDPE injection line trenching





Trench backfilled to grade



Oxygen injection system shed

Appendix E

Approved Permits

**SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS
HIGHWAY WORK PERMIT**

PERMIT # 13-496 TYPE NU CR # CR013

DATE ISSUED 7/14/2008 TAX MAP #: _____

PROJECT NAME

REVIEW FEE \$0.00 DATE PAID _____
 MAINT SEC _____ DATE PAID _____
 SECURITY \$500.00 DATE PAID 7/17/08
 PERMIT FEE \$25.00 DATE PAID 7/17/08
 BOND # _____ CERTIFIED CHECK # 015434

LETTER OF CREDIT # _____

PERMITTEE Fenley & Nicol Environmental, Inc.
 ADDRESS 445 Brook Ave.
Deer Park, NY 11729
 PHONE # (631) 586-4900

RETURN SECURITY TO THE FOLLOWING (IF DIFFERENT)

PURSUANT TO THE PROVISIONS OF SECTION 136, ART. 6, OF THE NEW YORK STATE HIGHWAY LAW, PERMISSION IS HEREBY GRANTED TO THE PERMITTEE TO:

Install one ground water monitoring well in asphalt driveway. Restore the County right-of-way. On the west side of CR 13A, Clinton Ave., 300 ft. north of Montauk Hwy. in the hamlet of Bayshore, town of Islip.

IN THE HAMLET/ VILLAGE OF: Bayshore IN THE TOWN OF: Islip

AS SET FORTH AND REPRESENTED ON THE ATTACHED PLANS, TYPICAL SECTIONS AND PURSUANT TO THIS DEPARTMENT'S GENERAL SPECIFICATIONS

The zoning and subsequent use of this property is under the authority of the town in which this development is located. Thereby, the issuance of this "Highway Work Permit" should not be construed as an approval by this Department for this development and/or associated land use.

DATE SIGNED: 7/17/08 REVIEWED BY _____
 PERMITS ENGINEER: _____ (Initial)

GILBERT ANDERSON, P.E.
 COMMISSIONER OF PUBLIC WORKS

BY: Cheryl Ann Keary
 (Permittee)

BY: William Hillman
 William Hillman, P.E.
 Chief Engineer

UPON COMPLETION OF WORK AUTHORIZED BY THIS PERMIT, PLEASE COMPLETE THE FOLLOWING AND RETURN TO THIS DEPARTMENT
 WORK AUTHORIZED BY THIS PERMIT HAS BEEN COMPLETED, REFUND OF DEPOSIT/ BOND IS REQUESTED.

DATE: _____ SIGNATURE OF PERMITTEE/ AGENT _____

DO NOT WRITE BELOW THIS LINE

ALL WORK AUTHORIZED BY THIS PERMIT IS:

- COMPLETED, REFUND DEPOSIT/ BOND
- SECURITY REQUIRED. AMOUNT: _____
- INCOMPLETE. SEND CORRECTION LETTER. DATE SENT: _____
- REINSPECTION. DATE CORRECTED AND COMPLETED: _____
- OTHER _____

DATE: _____ PERMITS INSPECTOR: _____

Construction Notes

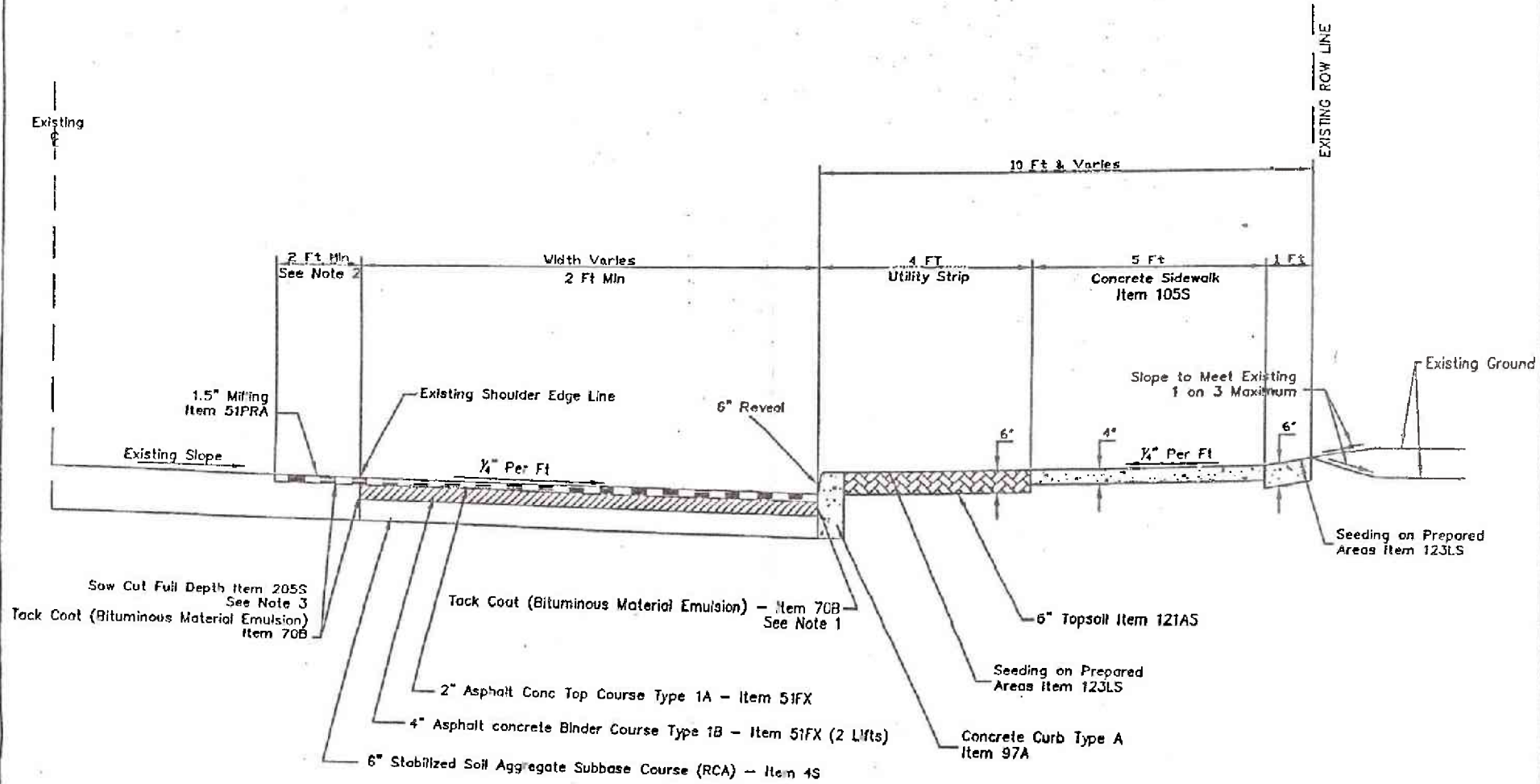
SIDEWALK NOTES:

1. See construction plans for limits of new concrete curb Type A Item 97A. A full depth tack coat shall be placed along the face of new curb adjacent to new asphalt pavement Item 70B.
2. The contractor shall mill the existing top asphalt courses for 2'-0" min. and replace with 1.5" of new asphalt top course.
3. In areas of new pavement construction, the contractor shall remove the existing pavement as required up to a point where the existing depth of acceptable asphalt is 6" thick or as directed by the engineer.
4. The contractor shall clear and grub to R.O.W. back from the new curbline along the entire property frontage or as directed by the County personnel.

RAMP NOTES:

5. Surface of ramp shall be deep grooved 1/2" wide by 1/4" deep on 1" centers transverse to the ramp
6. The normal pavement edge profile shall be maintained through the area of the ramp.
7. Stop lines are to be provided in advance of wheel chair ramps.
8. Stop sign as per NYS MUTCD standards. County personnel will oversee final placement in accordance with sightline conditions.

GENERAL NOTES: All items are to be in accordance with SCDPW specifications



NEW CURB, SIDEWALK AND PAVEMENT DETAIL
 NOT TO SCALE

GENERAL CONDITIONS

THE PERMITTEE IS RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC IN THE VICINITY OF THE PERMIT WORK AREA AND MUST BE IN ACCORDANCE WITH THE "NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

THIS PERMIT, WITH THE APPLICABLE PLANS, SHALL BE MADE AVAILABLE BY THE CONTRACTOR AT THE JOB SITE DURING CONSTRUCTION FOR THE USE AND INSPECTION OF THIS DEPARTMENT'S PERSONNEL.

72 HRS. BEFORE ANY WORK IS STARTED AND UPON ITS COMPLETION, THE PERMITTEE MUST NOTIFY THE PERMITS ENGINEER:

SUFFOLK COUNTY D.P.W.
M. PAUL CAMPAGNOLA, PERMITS ENGINEER
335 YAPHANK AVENUE
YAPHANK, NEW YORK 11980
TEL.#(631) 852-4100

THE SUFFOLK COUNTY DEPT. OF PUBLIC WORKS RESERVES THE RIGHT TO SUSPEND AND/OR REVOKE THIS PERMIT AT ITS DISCRETION WITHOUT A HEARING OR THE NECESSITY OF SHOWING CAUSE, EITHER BEFORE OR DURING THE OPERATIONS AUTHORIZED.

THIS PERMIT SHALL NOT BE ASSIGNED OR TRANSFERRED WITHOUT THE WRITTEN CONSENT OF THE COMMISSIONER OF PUBLIC WORKS.

ALL DAMAGED AND/OR DISTURBED AREAS RESULTING FROM THE WORK AUTHORIZED MUST BE REPAIRED TO THE SATISFACTION OF THIS DEPT.

INSURANCE REQUIREMENTS:

- A. THE PERMITTEE AND HIS CONTRACTORS AND/OR SUBCONTRACTORS SHALL NOT COMMENCE WORK UNDER THIS PERMIT UNTIL ALL THE REQUIRED INSURANCE HAS BEEN OBTAINED AND SUCH INSURANCE HAS BEEN APPROVED BY THE COUNTY. APPROVAL OF THE INSURANCE BY COUNTY SHALL NOT RELIEVE OR DECREASE THE LIABILITY OF THE PERMITTEE. THE PERMITTEE SHALL ASSUME ALL RESPONSIBILITY FOR THE INSURANCE REQUIREMENTS OF ALL CONTRACTORS AND/OR SUBCONTRACTORS. ALL INSURANCE REQUIREMENTS APPLY EQUALLY TO SUBCONTRACTORS. ALL INSURANCE SHALL BE OBTAINED FROM COMPANIES LICENSED TO DO BUSINESS IN THE STATE OF NEW YORK. ALL POLICIES PROVIDING COVERAGE SHALL BE ISSUED WITH AN A.M. BEST RATING OF A- OR BETTER.
- B. THE PERMITTEE SHALL FURNISH TO THE COUNTY DECLARATION PAGES FOR EACH SUCH POLICY OF INSURANCE, AND, UPON REQUEST, A TRUE AND CERTIFIED ORIGINAL COPY OF EACH SUCH POLICY, EVIDENCING COMPLIANCE WITH THE INSURANCE REQUIREMENTS. THE COUNTY OF SUFFOLK SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL APPLICABLE POLICIES AND PERMITTEE SHALL FURNISH A DECLARATION PAGE AND ENDORSEMENT PAGE EVIDENCING THE COUNTY'S STATUS AS AN ADDITIONAL INSURED ON SAID POLICY.
- C. ALL SUCH DECLARATION PAGES AND OTHER EVIDENCE OF INSURANCE SHALL PROVIDE FOR THE COUNTY OF SUFFOLK TO BE NOTIFIED IN WRITING THIRTY (30) DAYS PRIOR TO ANY CANCELLATION, NONRENEWAL, OR MATERIAL CHANGE IN SAID POLICIES. SUCH DECLARATION PAGES, POLICIES, AND OTHER EVIDENCE OF INSURANCE AND NOTICES SHALL BE MAILED TO THE DEPARTMENT AT ITS ADDRESS SET FORTH IN THE PARAGRAPH ENTITLED "NOTICES AND CONTACT PERSONS", OR AT SUCH OTHER ADDRESS OF WHICH THE COUNTY SHALL HAVE GIVEN THE PERMITTEE IN WRITING.
- D. FURTHERMORE, THE PERMITTEE AGREES THAT IT SHALL PROTECT, INDEMNIFY AND HOLD HARMLESS THE COUNTY AND ITS OFFICERS, OFFICIALS, EMPLOYEES, CONTRACTORS, AGENTS AND OTHER PERSONS (THE "COUNTY INDEMNIFIED PARTIES") FROM AND AGAINST ALL LIABILITIES, FINES, PENALTIES, ACTIONS, DAMAGES, CLAIMS, DEMANDS, JUDGMENTS, LOSSES, COSTS, EXPENSES, SUITS OR ACTIONS AND REASONABLE ATTORNEYS' FEES, ARISING OUT OF THE ACTS OR OMISSIONS OR THE NEGLIGENCE OF THE UNDERSIGNED IN CONNECTION WITH THE USAGE DESCRIBED OR REFERRED TO IN THIS PERMIT. THE UNDERSIGNED SHALL DEFEND THE COUNTY AND ITS OFFICERS, OFFICIALS, EMPLOYEES, CONTRACTORS, AGENTS AND OTHER PERSONS IN ANY SUIT, INCLUDING APPEALS, OR AT THE COUNTY'S OPTION, PAY REASONABLE ATTORNEY'S FEES FOR DEFENSE OF ANY SUCH SUIT ARISING OUT OF THE ACTS OR OMISSIONS OR NEGLIGENCE OF THE UNDERSIGNED, ITS OFFICERS, OFFICIALS, EMPLOYEES, SUBCONTRACTORS OR AGENTS, IF ANY, IN CONNECTION WITH THE USAGE DESCRIBED OR REFERRED TO IN THIS PERMIT.

E. THE PERMITTEE SHALL PROCURE, PAY THE ENTIRE PREMIUM FOR, AND MAINTAIN IN FORCE THROUGHOUT THE LIFE OF THE CONTRACT, THE FOLLOWING INSURANCE POLICIES:

1. WORKERS COMPENSATION INSURANCE

WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE IN COMPLIANCE WITH ALL APPLICABLE NEW YORK STATE LAWS AND REGULATIONS AND DISABILITY BENEFITS INSURANCE, IF REQUIRED BY LAW. PERMITTEE SHALL FURNISH TO THE COUNTY, PRIOR TO ITS EXECUTION OF THIS AGREEMENT, THE DOCUMENTATION REQUIRED BY THE STATE OF NEW YORK WORKERS' COMPENSATION BOARD OF COVERAGE OR EXEMPTION FROM COVERAGE PURSUANT TO §§ 57 AND 220 OF THE WORKERS' COMPENSATION LAW. IN ACCORDANCE WITH GENERAL MUNICIPAL LAW § 108, THIS AGREEMENT SHALL BE VOID AND OF NO EFFECT UNLESS THE CONTRACTOR SHALL PROVIDE AND MAINTAIN COVERAGE DURING THE TERM OF THIS AGREEMENT FOR THE BENEFIT OF SUCH EMPLOYEES AS ARE REQUIRED TO BE COVERED BY THE PROVISIONS OF THE WORKERS' COMPENSATION LAW.

2. GENERAL LIABILITY INSURANCE

A. COMMERCIAL GENERAL LIABILITY INSURANCE, INCLUDING CONTRACTUAL LIABILITY COVERAGE IN AND AMOUNT NOT LESS THAN TWO MILLION DOLLARS (\$2,000,000) PER OCCURRENCE FOR BODILY INJURY AND TWO MILLION DOLLARS (\$2,000,000.00) PER OCCURRENCE FOR PROPERTY DAMAGE.

B. AT THE PERMITTEE'S OPTION, THE PERMITTEE MAY FURNISH A MINIMUM ONE MILLION DOLLAR (\$1,000,000) UMBRELLA POLICY OR EXCESS LIABILITY POLICY TO MEET THE TWO MILLION DOLLAR (\$2,000,000) GENERAL LIABILITY INSURANCE REQUIREMENT OF ITEM NO. 2A.

3. AUTOMOBILE LIABILITY INSURANCE

AUTOMOBILE LIABILITY INSURANCE INCLUDING OWNED, NON-OWNED, AND HIRED CARS, WITH MINIMUM LIMITS OF NOT LESS THAN ONE MILLION DOLLARS (\$1,000,000) PER PERSON, PER ACCIDENT BODILY INJURY AND NOT LESS THAN FIVE HUNDRED THOUSAND DOLLARS (\$500,000) FOR PROPERTY DAMAGE PER OCCURRENCE.

F. THE PERMITTEE ASSUMES RESPONSIBILITY FOR ALL INJURY TO OR DESTRUCTION OF OR LOSS BY THEFT OR PILFERAGE OF THE CONTRACTOR'S AND/OR SUBCONTRACTOR'S MATERIALS, TOOLS, MACHINERY, EQUIPMENT, APPLIANCES, SHORING, SCAFFOLDING, FALSE AND FORM WORK AND PERSONAL PROPERTY OF HIS EMPLOYEES, FROM WHATEVER CAUSE.

G. IF AT ANY TIME ANY OF THE INSURANCES SHOULD BE CANCELED, NOT RENEWED OR MATERIALLY MODIFIED SO THAT INSURANCE IS NOT IN EFFECT AS REQUIRED, THE COUNTY SHALL DIRECT THE PERMITTEE TO SUSPEND WORK.

H. IF REQUIRED INSURANCE DECLARATION PAGES ARE NOT PROVIDED AND UPDATED AS NECESSARY, THE COUNTY SHALL SUSPEND OPERATIONS UNTIL SUCH TIME THAT CERTIFICATES/POLICIES ARE SUBMITTED STATING THAT ALL APPLICABLE INSURANCES ARE IN EFFECT.

UPON SATISFACTORILY COMPLETING ALL WORK AUTHORIZED BY THIS PERMIT, THE PERMITTEE SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF SUCH WORK OR PORTION THEREOF FOR A PERIOD OF ONE (1) YEAR OR AS DETERMINED BY THE PERMITS ENGINEER. A SECURITY IN THE FORM OF A CERTIFIED CHECK OR LETTER OF CREDIT, IN THE AMOUNT OF 10% OF THE ORIGINAL SECURITY AMOUNT FOR THE VALUE OF THE WORK PERFORMED ON THE COUNTY R.O.W., SHALL BE SUBMITTED TO THIS DEPARTMENT AND HELD BY THIS DEPARTMENT FOR ONE YEAR.

SPRINKLER SYSTEMS AND ADVERTISEMENT SIGNS ARE NOT PERMITTED ON THE COUNTY RIGHT-OF-WAY.

THIS HIGHWAY WORK PERMIT IS CONTINGENT UPON FULL COMPLIANCE WITH EPA STORMWATER PHASE II REGULATIONS AND THE CONSTRUCTION ACTIVITY PERMIT (IF ISSUED) BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC).

ALL PARTS OF THE CONSTRUCTION ACTIVITY PERMIT SHALL BE COMPLIED WITH, INCLUDING BUT NOT LIMITED TO, THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), SEDIMENT AND EROSION CONTROL MEASURES, AND BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED.

ANY VIOLATION OF THESE REGULATIONS WILL DEEM THIS PERMIT VOID, AND ACCESS TO COUNTY ROADS WILL BE DENIED UNTIL ANY AND ALL INFRACTIONS ARE RECTIFIED.

TO AVOID DAMAGE TO VITAL UNDERGROUND UTILITIES THAT MAY BE PRESENT IN THE AREA OF WORK DESCRIBED BY THIS PERMIT, CALL THE UTILITY ONE CALL CENTER AT 1-800-272-4480 BEFORE ANY WORK IS COMMENCED ON THE COUNTY RIGHT-OF-WAY.

SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORK

UTILITY HIGHWAY WORK PERMIT

CR #	CR013	WORK ORDER #:	PERMIT #	13-512	TYPE	U
PERMIT FEE:	\$150.00	MAINT SECURITY FEE:	DATE SIGNED:	8/5/2009		
CHARGEABLE TO:			EXPIRATION DATE:	10/4/2009		

PURSUANT TO THE PROVISIONS OF SECTION 136 OF THE NEW YORK STATE HIGHWAY LAW, PERMISSION IS GRANTED TO:

PERMITTEE National Grid
 ADDRESS 175 E. Old Country Rd.
 Hicksville, NY 11801
 PHONE #

Open a 50 ft. trench across travel lanes. Full depth restoration to consist of 6" RCA, 4" sub base and 2" top course with an additional 1 1/2' cutback on either side of trench. A complete mill and fill of entire travel lane. Reinstall thermoplastic pavement markings. Permittee shall retain a professional engineer from an approved materials and soils testing laboratory list to inspect & document all materials and methods used in the construction of this permit project. This engineer must be available to the SCDPW Permits Section inspectors whenever construction is taking place or is to take place on the County ROW. On CR 13A, Clinton Ave. at Cooper in the hamlet of Bayshore, town of Islip.

IN THE HAMLET/ VILLAGE OF: Bayshor IN THE TOWN OF: Islip

pursuant to this Department's conditions and regulations, whether general or special, and methods of performing work, if any; all of which are set forth in this permit and/or as ordered by County personnel.

As a condition of this Department's issuance of this permit, the permittee understands and accepts the following: these facilities may be subject to relocation and/or removal should this Department advance any project for this County Road in this area. It is the responsibility of the permittee, designee and/or assigns to relocate and/or remove these facilities as directed by this Department at no cost to the County of Suffolk.

UTILITY REPRESENTATIVE
KEVIN SCHUTZ
 (Print Name)
Kevin Schutz
 (Signature)

GILBERT ANDERSON, P.E.
 COMMISSIONER OF PUBLIC WORKS
 By: [Signature]
 William Hillman, P.E.
 Chief Engineer

- IMPORTANT -

THIS PERMIT WITH APPLICABLE DRAWING(S) OR COPIES ATTACHED, SHALL BE MADE AVAILABLE BY THE PERMITTEE OR HIS CONTRACTOR AT THE JOBSITE FOR THE USE AND INSPECTION OF THIS DEPARTMENT'S PERSONNEL.

NOTICE - The permittee must notify this office, the Suffolk County Department of Public Works, 335 Yaphank Avenue, Yaphank, NY, 11980-9744; phone:(631) 852-4100; fax (631)852-4079 before work is started and upon its completion.

Applicable Notes:

SEE SPECIAL CONDITIONS SHEET ATTACHED

APPROVED AS TO FORM BY:
 THE DIRECTOR OF HIGHWAY PLANNING AND PERMITS (OR DESIGNEE) as initialed

[Signature]
 (initials)

Appendix F

Monitoring Well Installation Analytical Soil Data

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-17 (6-10) 3/27/2008	OU2MW-17 (15-20) 3/27/2008	Duplicate of: OU2MW-17 (15-20) 3/27/2008	OU2MW-17 (35-40) 3/27/2008	OU2MW-17 (60-65) 3/1/2008	OU2MW-18 (15-20) 3/26/2008	OU2MW-18 (35-40) 3/26/2008	OU2MW-18 (60-65) 3/26/2008	OU2MW-19 (15-20) 3/24/2008	OU2MW-19 (35-40) 3/24/2008	OU2MW-19 (60-65) 3/24/2008	OU2MW-20 (6.5-10) 3/25/2008	OU2MW-20 (15-20) 3/25/2008	OU2MW-20 (36-40) 3/25/2008	OU2MW-20 (60-65) 3/25/2008
Benzene	0.06	2.9	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Toluene	0.7	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Ethylbenzene	1	30	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Xylene, m,p-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Xylene, o-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Other VOCs (mg/kg)																	
Acetaldehyde	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Acetone	0.05	100	0.015 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.004 J	0.012 UJ	0.012 UJ	0.012 UJ
Allyl chloride	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Bromodichloromethane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Bromoform	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Bromomethane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Butadiene, 1,3-	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Butanone, 2-	0.12	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 UJ	0.012 U	0.012 U	0.012 U
Carbon disulfide	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 UJ	0.012 U	0.012 U	0.012 U
Carbon tetrachloride	0.76	1.4	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Chlorobenzene	1.1	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Chloroethane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Chloroform	0.37	10	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Chloromethane	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U	0.012 UJ	0.012 UJ	0.012 UJ
Chlorotoluene	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 UJ	0.012 U	0.012 U	0.012 U
Cryofluorane	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Cyclohexane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dibromochloromethane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dibromoethane, 1,2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,2-	1.1	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,3-	2.4	17	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,4-	1.8	9.8	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichlorodifluoromethane	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Dichloroethane, 1,1-	0.27	19	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichloroethane, 1,2-	0.02	2.3	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichloroethene, 1,1-	0.33	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 UJ	0.012 U	0.012 U	0.012 U
Dichloroethene, cis-1,2-	0.25	59	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichloropropane, 1,2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichloropropene, cis-1,3	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dichloropropene, trans-1,3	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Dioxane, 1,4-	0.1	9.8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Ethanol	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Hexachlorobutadiene	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Hexane, n-	NE	NE	0.001 J	0.002 J	0.001 J	0.002 J	0.001 J	0.012 U	0.012 U	0.012 U	0.002 J	0.002 J	0.002 J	0.011 U	0.002 J	0.012 U	0.002 J
Hexanone, 2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Isopropyl benzene	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Methyl tert-butyl ether	0.93	62	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Methyl-2-pentanone, 4-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Methylene chloride	0.05	51	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.011 U	0.012 U	0.012 U	0.016 U
Naphthalene	12	100	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.12 J	0.012 UJ	0.012 UJ	0.088 J	0.19 J	0.54	0.011 U	0.012 UJ	0.012 UJ	0.012 UJ
Propanol, 2-	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Propylbenzene, n-	3.9	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Styrene	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.002 J	0.011 U	0.012 U	0.012 U	0.012 U
Tetrachloroethane, 1,1,1,2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Tetrachloroethane,1,1,2,2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Tetrachloroethene	1.3	5.5	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Tetrahydrofuran	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trans-1,2-dichloroethene	0.19	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 UJ	0.012 U	0.012 U	0.012 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-17 (6-10) 3/27/2008	OU2MW-17 (15-20) 3/27/2008	Duplicate of: OU2MW-17 (15-20) 3/27/2008	OU2MW-17 (35-40) 3/27/2008	OU2MW-17 (60-65) 3/1/2008	OU2MW-18 (15-20) 3/26/2008	OU2MW-18 (35-40) 3/26/2008	OU2MW-18 (60-65) 3/26/2008	OU2MW-19 (15-20) 3/24/2008	OU2MW-19 (35-40) 3/24/2008	OU2MW-19 (60-65) 3/24/2008	OU2MW-20 (6.5-10) 3/25/2008	OU2MW-20 (15-20) 3/25/2008	OU2MW-20 (36-40) 3/25/2008	OU2MW-20 (60-65) 3/25/2008
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Trichlorobenzene, 1,2,4-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,1-	0.68	100	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,2-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trichloroethene	0.47	10	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trichlorofluoromethane	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene, 1,2,4-	3.6	47	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Trimethylpentane, 2,2,4-	NE	NE	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Vinyl acetate	NE	NE	0.001 J	0.002 J	0.012 U	0.002 J	0.001 J	0.012 U	0.012 U	0.012 U	0.002 J	0.001 J	0.002 J	0.011 U	0.002 J	0.012 U	0.002 J
Vinyl chloride	0.02	0.21	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Acenaphthylene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Anthracene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Benzo[g,h,i]perylene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Fluoranthene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Fluorene	30	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Methylnaphthalene, 2-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.11 J	0.4 U	0.41 U
Naphthalene	12	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.11 J	0.2 J	0.38 U	0.15 J	0.4 U	0.41 U
Phenanthrene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Pyrene	100	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Benzo[a]pyrene	1	1	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Benzo[b]fluoranthene	1	1	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Benzo[k]fluoranthene	0.8	1	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chrysene	1	1	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dibenz[a,h]anthracene	0.33	0.33	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Bis(2-chloroethyl)ether	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Bis(2-ethylhexyl)phthalate	NE	NE	0.37 U	0.37 U	0.39 UJ	1 J	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Bis(chloroisopropyl)ether	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Bromophenyl phenyl ether, 4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Butyl benzyl phthalate	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Carbazole	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chloro-3-methylphenol, 4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chloroaniline, 4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chloronaphthalene, 2-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chlorophenol, 2-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dibenzofuran	7	14	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dichlorobenzene, 1,2-	1.1	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dichlorobenzene, 1,3-	2.4	17	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dichlorobenzene, 1,4-	1.8	9.8	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dichlorobenzidine, 3,3-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dichlorophenol, 2,4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Diethyl phthalate	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dimethyl phthalate	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dimethylphenol, 2,4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Di-n-butyl phthalate	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Dinitro-2-methylphenol, 4,6-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Dinitrophenol, 2,4-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Dinitrotoluene, 2,4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-17 (6-10) 3/27/2008	OU2MW-17 (15-20) 3/27/2008	Duplicate of: OU2MW-17 (15-20) 3/27/2008	OU2MW-17 (35-40) 3/27/2008	OU2MW-17 (60-65) 3/1/2008	OU2MW-18 (15-20) 3/26/2008	OU2MW-18 (35-40) 3/26/2008	OU2MW-18 (60-65) 3/26/2008	OU2MW-19 (15-20) 3/24/2008	OU2MW-19 (35-40) 3/24/2008	OU2MW-19 (60-65) 3/24/2008	OU2MW-20 (6.5-10) 3/25/2008	OU2MW-20 (15-20) 3/25/2008	OU2MW-20 (36-40) 3/25/2008	OU2MW-20 (60-65) 3/25/2008
Dinitrotoluene, 2,6-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Di-n-octyl phthalate	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Hexachlorobenzene	0.33	0.33	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Hexachlorobutadiene	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Hexachlorocyclopentadiene	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Hexachloroethane	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Isophorone	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Methylphenol, 2-	0.33	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Methylphenol, 4-	0.33	34	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Nitroaniline, 2-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Nitroaniline, 3-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Nitroaniline, 4-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Nitrobenzene	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Nitrophenol, 2-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Nitrophenol, 4-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Nitrosodi-n-propylamine, N-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Nitrosodiphenylamine, N-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Pentachlorophenol	0.8	2.4	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Phenol	0.33	100	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Trichlorobenzene, 1,2,4-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Trichlorophenol, 2,4,5-	NE	NE	0.92 U	0.94 U	0.97 U	1 U	1 U	0.98 U	0.98 U	1 U	0.96 U	1 U	1 U	0.95 U	0.99 U	1 U	1 U
Trichlorophenol, 2,4,6-	NE	NE	0.37 U	0.37 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.38 U	0.41 U	0.4 U	0.38 U	0.39 U	0.4 U	0.41 U
Total Metals (mg/kg)																	
Aluminum	NE	NE	798 J	354 J	410	456	1080	368	640	1270	423	455	913	752	614	702	1830
Antimony	NE	NE	0.49 U	0.50 U	0.51 U	0.54 U	0.55 U	0.52 U	0.52 U	0.54 U	0.51 U	0.55 U	0.53 U	0.50 U	0.52 U	0.54 U	0.54 U
Arsenic	13	16	0.32 U	0.32 U	0.66 J	0.76 J	0.71 J	0.40 J	0.44 J	2.1	0.33 U	0.60 J	0.84 J	0.63 J	0.35 J	1.3	1.1 J
Barium	350	350	2.1 J	1.4 J	1.6 J	2.6 J	3.6 J	1.1 J	3.6 J	4.3 J	1.4 J	4.4 J	4.6 J	2.4 J	6.0 J	3.2 J	9.7 J
Beryllium	7.2	14	0.089 UJ	0.036 UJ	0.078 UJ	0.12 UJ	0.23 UJ	0.042 UJ	0.081 UJ	0.17 UJ	0.056 UJ	0.082 UJ	0.13 UJ	0.12 UJ	0.088 UJ	0.15 UJ	0.19 UJ
Cadmium	2.5	2.5	0.076 UJ	0.042 UJ	0.031 U	0.033 U	0.034 U	0.032 U	0.032 U	0.033 U	0.031 U	0.034 U	0.033 U	0.042 UJ	0.032 U	0.033 U	0.033 U
Calcium	NE	NE	72.9 J	28.5 J	27.1 J	33.5 J	218 J	34.3 J	42.7 J	398 J	37.1 J	33.3 J	237 J	59.3 J	41.9 J	43.6 J	187 J
Chromium	NE	NE	2.8	1.0 J	3.5	2.6	3.6	0.73 J	3.0	4.2	0.82 J	3.5	2.7	3.2	3.0	4.1	4.3
Cobalt	NE	NE	0.56 J	0.45 J	0.30 J	0.62 J	0.91 J	0.21 U	0.68 J	0.98 J	0.32 J	0.58 J	1.0 J	0.91 J	0.42 J	0.73 J	1.7 J
Copper	50	270	1.4 J	1.1 J	1.1 J	1.3 J	2.8 J	0.72 J	1.6 J	3.9	0.75 J	1.3 J	2.8 J	1.0 J	1.7 J	1.7 J	3.5
Iron	NE	NE	980	650	1330 J	2360 J	3580	613	2140	3880	678	1780	3250	1670	1380	3710	4490
Lead	63	400	0.97	0.65	0.59 J	1.2 J	1.5	0.64	1.1	2.2	0.51	0.77	1.7	1.2	0.80	1.3	2.7
Magnesium	NE	NE	158 J	76.1 J	63.5 J	77.3 J	343 J	55.7 J	136 J	324 J	80.0 J	86.4 J	230 J	114 J	169 J	109 J	547 J
Manganese	1600	2000	7.6	5.0	5.3 J	18.4 J	16.4	3.4	22.3	24.9	4.9	16.0	21.0	20.1	7.8	31.3	83.6
Mercury	0.18	0.81	0.019 U	0.019 U	0.019 U	0.020 U	0.021 U	0.020 U	0.020 U	0.021 U	0.019 U	0.021 U	0.020 U	0.019 U	0.020 U	0.020 U	0.021 U
Nickel	30	140	0.94 J	0.73 J	0.69 J	0.89 J	2.0 J	0.41 J	1.1 J	2.3 J	0.58 J	0.80 J	2.3 J	1.4 J	0.71 J	1.5 J	2.7 J
Potassium	NE	NE	68.2 J	61.2 J	55.3 J	58.0 J	156 J	49.1 J	94.4 J	141 J	57.0 J	67.4 J	122 J	68.7 J	118 J	82.8 J	253 J
Selenium	3.9	36	0.48 U	0.49 U	0.50 UJ	0.52 UJ	0.54 UJ	0.51 UJ	0.51 UJ	0.53 UJ	0.50 UJ	0.54 UJ	0.52 UJ	0.49 UJ	0.51 UJ	0.53 UJ	0.53 UJ
Silver	2	36	0.099 U	0.10 U	0.10 U	0.11 U	0.11 U	0.10 U	0.11 U	0.11 U	0.10 U	0.11 U	0.11 U	0.10 U	0.11 U	0.11 U	0.11 U
Sodium	NE	NE	21.4 UJ	15.4 UJ	11.8 UJ	24.5 J	24.0 J	17.9 UJ	25.2 J	49.6 J	18.9 J	34.6 J	18.9 J	18.3 J	27.6 J	26.8 J	34.4 J
Thallium	NE	NE	0.58 J	0.28 U	0.29 U	0.31 U	0.32 U	0.30 U	0.30 U	0.31 U	0.29 U	0.31 U	0.30 U	0.29 U	0.30 U	0.31 U	0.31 U
Vanadium	NE	NE	2.1 J	1.2 J	2.2 J	3.8 J	4.9 J	1.1 J	3.2 J	6.5	1.2 J	2.6 J	4.6 J	2.3 J	3.6 J	5.1 J	6.8
Zinc	109	2200	4.4	3.2 U	3.5 U	3.9	6.5	2.5 U	5.5	5.6	1.8 UJ	3.5 U	5.8	13.1	4.4	4.8	8.5
Other (%)																	
Moisture, percent	NE	NE	10.1	11.3	14.3	17.9	19.8	15.1	15.7	18.9	13.6	19.5	17.0	12.6	15.8	18.2	18.8

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-21 (15-20) 3/20/2008	OU2MW-21 (40-45) 3/20/2008	OU2MW-22 (10-15) 10/28/2008	OU2MW-22 (25-30) 10/28/2008	OU2MW-22 (45-50) 10/28/2008	OU2MW-22 (70-73) 10/28/2008	OU2MW-23 (10-15) 11/6/2008	OU2MW-23 (25-30) 11/6/2008	OU2MW-23 (45-50) 11/6/2008	OU2MW-23 (63-68) 11/6/2008	OU2MW-24 (10-15) 11/5/2008	OU2MW-24 (25-30) 11/5/2008	OU2MW-24 (45-50) 11/5/2008	OU2MW-24 (65-68) 11/5/2008	OU2MW-25 (10-15) 10/27/2008
Benzene	0.06	2.9	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Toluene	0.7	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Ethylbenzene	1	30	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Xylene, m,p-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Xylene, o-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Other VOCs (mg/kg)																	
Acetaldehyde	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U
Acetone	0.05	100	0.028 J	0.007 J	0.012 UJ	0.006 J	0.004 J	0.009 J	0.004 J	0.005 J	0.004 J	0.006 J	0.005 J	0.006 J	0.006 J	0.01 J	0.006 J
Allyl chloride	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Bromodichloromethane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Bromoform	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Bromomethane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Butadiene, 1,3-	NE	NE	0.012 UJ	0.012 UJ	R	R	R	R	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U
Butanone, 2-	0.12	100	0.004 J	0.012 UJ	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Carbon disulfide	NE	NE	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U
Carbon tetrachloride	0.76	1.4	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Chlorobenzene	1.1	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Chloroethane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Chloroform	0.37	10	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Chloromethane	NE	NE	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Chlorotoluene	NE	NE	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Cryofluorane	NE	NE	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Cyclohexane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dibromochloromethane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dibromoethane, 1,2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichlorobenzene, 1,2-	1.1	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichlorobenzene, 1,3-	2.4	17	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichlorobenzene, 1,4-	1.8	9.8	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichlorodifluoromethane	NE	NE	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Dichloroethane, 1,1-	0.27	19	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 U	0.012 U	0.012 U	0.011 U
Dichloroethane, 1,2-	0.02	2.3	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U
Dichloroethene, 1,1-	0.33	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichloroethene, cis-1,2-	0.25	59	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichloropropane, 1,2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichloropropene, cis-1,3	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dichloropropene, trans-1,3	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Dioxane, 1,4-	0.1	9.8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Ethanol	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Hexachlorobutadiene	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Hexane, n-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 U
Hexanone, 2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Isopropyl benzene	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Methyl tert-butyl ether	0.93	62	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 UJ
Methyl-2-pentanone, 4-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Methylene chloride	0.05	51	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Naphthalene	12	100	0.62	0.66	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.027 J	0.004 J	0.012 U	0.011 U
Propanol, 2-	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Propylbenzene, n-	3.9	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Styrene	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Tetrachloroethane, 1,1,1,2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Tetrachloroethane, 1,1,2,2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Tetrachloroethene	1.3	5.5	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Tetrahydrofuran	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trans-1,2-dichloroethene	0.19	100	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 UJ

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-21 (15-20) 3/20/2008	OU2MW-21 (40-45) 3/20/2008	OU2MW-22 (10-15) 10/28/2008	OU2MW-22 (25-30) 10/28/2008	OU2MW-22 (45-50) 10/28/2008	OU2MW-22 (70-73) 10/28/2008	OU2MW-23 (10-15) 11/6/2008	OU2MW-23 (25-30) 11/6/2008	OU2MW-23 (45-50) 11/6/2008	OU2MW-23 (63-68) 11/6/2008	OU2MW-24 (10-15) 11/5/2008	OU2MW-24 (25-30) 11/5/2008	OU2MW-24 (45-50) 11/5/2008	OU2MW-24 (65-68) 11/5/2008	OU2MW-25 (10-15) 10/27/2008
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trichlorobenzene, 1,2,4-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trichloroethane, 1,1,1-	0.68	100	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trichloroethane, 1,1,2-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trichloroethene	0.47	10	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trichlorofluoromethane	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trimethylbenzene, 1,2,4-	3.6	47	0.003 J	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Trimethylpentane, 2,2,4-	NE	NE	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U
Vinyl acetate	NE	NE	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Vinyl chloride	0.02	0.21	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.17 J	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Acenaphthylene	100	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.14 J	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Anthracene	100	100	0.098 J	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Benzo[g,h,i]perylene	100	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Fluoranthene	100	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Fluorene	30	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.083 J	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Methylnaphthalene, 2-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.15 J	0.22 J	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Naphthalene	12	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.14 J	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Phenanthrene	100	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.18 J	0.16 J	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Pyrene	100	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.22 J	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Benzo[a]pyrene	1	1	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Benzo[b]fluoranthene	1	1	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Benzo[k]fluoranthene	0.8	1	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chrysene	1	1	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dibenz[a,h]anthracene	0.33	0.33	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Bis(2-chloroethyl)ether	NE	NE	0.38 U	0.4 U	0.4 UJ	0.4 UJ	0.42 UJ	0.39 UJ	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 UJ
Bis(2-ethylhexyl)phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.16 J	0.38 U
Bis(chloroisopropyl)ether	NE	NE	0.38 U	0.4 U	0.4 UJ	0.4 UJ	0.42 UJ	0.39 UJ	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 UJ
Bromophenyl phenyl ether, 4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Butyl benzyl phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Carbazole	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chloro-3-methylphenol, 4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chloroaniline, 4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chloronaphthalene, 2-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chlorophenol, 2-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dibenzofuran	7	14	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dichlorobenzene, 1,2-	1.1	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dichlorobenzene, 1,3-	2.4	17	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dichlorobenzene, 1,4-	1.8	9.8	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dichlorobenzidine, 3,3'-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dichlorophenol, 2,4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Diethyl phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dimethyl phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dimethylphenol, 2,4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Di-n-butyl phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Dinitro-2-methylphenol, 4,6-	NE	NE	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Dinitrophenol, 2,4-	NE	NE	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Dinitrotoluene, 2,4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-21 (15-20) 3/20/2008	OU2MW-21 (40-45) 3/20/2008	OU2MW-22 (10-15) 10/28/2008	OU2MW-22 (25-30) 10/28/2008	OU2MW-22 (45-50) 10/28/2008	OU2MW-22 (70-73) 10/28/2008	OU2MW-23 (10-15) 11/6/2008	OU2MW-23 (25-30) 11/6/2008	OU2MW-23 (45-50) 11/6/2008	OU2MW-23 (63-68) 11/6/2008	OU2MW-24 (10-15) 11/5/2008	OU2MW-24 (25-30) 11/5/2008	OU2MW-24 (45-50) 11/5/2008	OU2MW-24 (65-68) 11/5/2008	OU2MW-25 (10-15) 10/27/2008
Dinitrotoluene, 2,6-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Di-n-octyl phthalate	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Hexachlorobenzene	0.33	0.33	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Hexachlorobutadiene	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 U
Hexachlorocyclopentadiene	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 U
Hexachloroethane	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Isophorone	NE	NE	0.38 U	0.4 U	0.4 UJ	0.4 UJ	0.42 UJ	0.39 UJ	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 UJ
Methylphenol, 2-	0.33	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Methylphenol, 4-	0.33	34	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Nitroaniline, 2-	NE	NE	0.96 U	1 U	1 UJ	1 UJ	1 UJ	0.97 UJ	0.99 UJ	1 UJ	0.98 UJ	1 UJ	0.94 UJ	0.96 UJ	0.98 UJ	1 UJ	0.94 UJ
Nitroaniline, 3-	NE	NE	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Nitroaniline, 4-	NE	NE	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Nitrobenzene	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Nitrophenol, 2-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Nitrophenol, 4-	NE	NE	0.96 U	1 U	1 UJ	1 UJ	1 UJ	0.97 UJ	0.99 UJ	1 UJ	0.98 UJ	1 UJ	0.94 UJ	0.96 UJ	0.98 UJ	1 UJ	0.94 UJ
Nitrosodi-n-propylamine, N-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 UJ	0.41 UJ	0.39 UJ	0.4 UJ	0.37 UJ	0.38 UJ	0.39 UJ	0.41 UJ	0.38 U
Nitrosodiphenylamine, N-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Pentachlorophenol	0.8	2.4	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Phenol	0.33	100	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Trichlorobenzene, 1,2,4-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Trichlorophenol, 2,4,5-	NE	NE	0.96 U	1 U	1 U	1 U	1 U	0.97 U	0.99 U	1 U	0.98 U	1 U	0.94 U	0.96 U	0.98 U	1 U	0.94 U
Trichlorophenol, 2,4,6-	NE	NE	0.38 U	0.4 U	0.4 U	0.4 U	0.42 U	0.39 U	0.39 U	0.41 U	0.39 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.38 U
Total Metals (mg/kg)																	
Aluminum	NE	NE	923	508	409	523	480	2770	438	423	567	1310	470	553	527	1940	445
Antimony	NE	NE	0.51 U	0.53 U	0.27 U	0.27 U	0.29 U	0.28 J	0.27 U	0.28 U	0.27 U	0.28 U	0.26 U	0.26 U	0.27 U	0.28 U	0.26 U
Arsenic	13	16	0.34 J	0.34 U	0.44 J	0.22 U	0.23 U	1.3	0.22 U	0.26 J	0.33 J	0.82 J	0.21 U	0.21 U	0.38 J	0.76 J	0.23 J
Barium	350	350	1.6 J	3.8 J	1.3 J	2.6 J	2.6 J	10.6 J	1.5 J	2.0 J	2.6 J	4.4 J	1.4 J	2.5 J	3.6 J	8.1 J	1.4 J
Beryllium	7.2	14	0.012 UJ	0.012 UJ	0.10 UJ	0.076 UJ	0.044 UJ	0.23 J	0.033 UJ	0.037 UJ	0.055 UJ	0.11 UJ	0.019 UJ	0.039 UJ	0.053 UJ	0.14 UJ	0.049 UJ
Cadmium	2.5	2.5	0.031 UJ	0.032 U	0.060 UJ	0.043 UJ	0.044 U	0.076 UJ	0.042 U	0.044 U	0.041 U	0.043 U	0.040 U	0.041 U	0.041 U	0.043 U	0.040 U
Calcium	NE	NE	35.8 J	30.0 J	45.1 J	32.6 J	31.8 J	551 J	21.1 J	24.5 J	30.5 J	195 J	27.3 J	22.6 J	36.7 J	533 J	36.0 J
Chromium	NE	NE	1.1 J	2.5	2.7	2.3	1.6	7.8	1.5	2.0	2.5	4.2	1.5	1.4	2.3	5.2	1.9
Cobalt	NE	NE	0.57 J	0.54 J	0.28 J	0.62 J	0.47 J	2.2 J	0.31 J	0.64 J	0.51 J	1.5 J	0.27 J	0.62 J	0.80 J	2.2 J	0.51 J
Copper	50	270	1.6 J	1.3 J	1.1 J	1.7 J	1.1 J	5.7	2.8 J	1.1 J	2.2 J	9.2	0.96 J	1.1 J	1.8 J	5.1	1.1 J
Iron	NE	NE	1150	1040	1310	2040	1010	6940	1220	1040	1740	3700	756	1340	1580	4870	1990
Lead	63	400	0.80	0.81	1.2 J	1.0 N	0.97 J	2.8 J	0.76	0.56	1.1	2.2	0.55	0.65	0.79	2.4	0.85 J
Magnesium	NE	NE	88.6 J	106 J	60.3 J	112 J	117 J	873	86.9 J	80.5 J	126 J	345 J	96.4 J	175 J	120 J	639	57.4 J
Manganese	1600	2000	5.8	11.9	9.9	16.5	18.1	57.1	6.7	6.6	13.1	24.2	4.8	11.4	9.2	33.8	8.3
Mercury	0.18	0.81	0.019 U	0.020 U	0.026 U	0.026 U	0.027 U	0.025 U	0.026 U	0.027 U	0.026 U	0.026 U	0.025 U	0.025 U	0.026 U	0.027 U	0.025 U
Nickel	30	140	0.84 J	0.93 J	0.46 J	0.88 J	0.72 J	5.5	0.90 J	0.94 J	1.0 J	2.7 J	0.64 J	0.95 J	1.1 J	4.1 J	0.58 J
Potassium	NE	NE	54.9 J	69.5 J	79.8 J	103 J	116 J	435 J	63.3 J	64.4 J	109 J	192 J	76.7 J	82.6 J	103 J	311 J	82.4 J
Selenium	3.9	36	0.50 UJ	0.52 UJ	0.27 UJ	0.23 U	0.24 U	0.23 U	0.23 U	0.24 U	0.23 U	0.24 U	0.22 U	0.22 U	0.23 UJ	0.24 U	0.22 U
Silver	2	36	0.10 U	0.11 U	0.065 U	0.065 U	0.068 U	0.063 U	0.064 U	0.067 U	0.064 U	0.066 U	0.061 U	0.063 U	0.064 U	0.066 U	0.061 U
Sodium	NE	NE	1.4 UJ	27.9 J	8.2 J	20.8 J	24.1 J	31.9 J	0.65 UJ	6.9 J	2.6 J	9.6 J	0.61 UJ	4.1 J	1.8 J	15.4 J	8.7 J
Thallium	NE	NE	0.29 U	0.30 U	0.23 U	0.23 U	0.24 U	0.22 U	0.22 U	0.23 U	0.22 UJ	0.23 U	0.21 U	0.22 U	0.22 U	0.33 UJ	0.21 U
Vanadium	NE	NE	1.3 J	2.0 J	2.7 J	2.7 J	1.9 J	11.4	2.1 J	1.4 J	2.7 J	5.2 J	1.5 J	2.1 J	2.3 J	8.1	2.2 J
Zinc	109	2200	0.18 U	0.19 U	5.6	3.7	3.4	11.3	10.9	3.4	3.9	11.8	4.1	4.2	3.6	10.3	10.8
Other (%)																	
Moisture, percent	NE	NE	13.3	16.7	17.3	17.0	20.6	14.3	16.1	19.3	15.2	18.1	11.6	13.6	15.1	18.7	12.1

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-25 (25-30) 10/27/2008	OU2MW-25 (45-50) 10/27/2008	OU2MW-25 (70-75) 10/27/2008	OU2MW-26 (8-10) 3/20/2008	OU2MW-26 (15-20) 3/20/2008	OU2MW-26 (40-45) 3/21/2008	OU2MW-26 (60-65) 3/21/2008	OU2MW-27 (8-10) 6/29/2009	OU2MW-27 (22-24) 6/29/2009	OU2MW-27 (47-49) 6/29/2009	OU2MW-27 (62-64) 6/29/2009	Duplicate of: OU2MW-27 (62-64) 6/29/2009	OU2MW-34 (10-15) 11/7/2008	OU2MW-34 (25-30) 11/7/2008	Duplicate of: OU2MW-34 (25-30) 11/7/2008
Benzene	0.06	2.9	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013	0.012 U	0.012 U	0.012 U	0.012 U	0.002 J	0.013 U
Toluene	0.7	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Ethylbenzene	1	30	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.005 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Xylene, m,p-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Xylene, o-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.014	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Other VOCs (mg/kg)																	
Acetaldehyde	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ
Acetone	0.05	100	0.009 J	0.006 J	0.012	0.008 J	0.015 J	0.008 J	0.007 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.004 J	0.006 J	0.007 J
Allyl chloride	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromodichloromethane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromoform	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Bromomethane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Butadiene, 1,3-	NE	NE	R	R	R	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	R	R	R	R	R	0.012 UJ	0.012 UJ	0.013 UJ
Butanone, 2-	0.12	100	0.012 U	0.012 U	0.011 U	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Carbon disulfide	NE	NE	0.012 U	0.012 U	0.011 U	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ
Carbon tetrachloride	0.76	1.4	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Chlorobenzene	1.1	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroethane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloroform	0.37	10	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Chloromethane	NE	NE	0.012 UJ	0.012 UJ	0.011 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ
Chlorotoluene	NE	NE	0.012 U	0.012 U	0.011 U	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Cryofluorane	NE	NE	0.012 UJ	0.012 UJ	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	R	R	R	0.012 UJ	R	0.012 UJ	0.012 UJ	0.013 UJ
Cyclohexane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromochloromethane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dibromoethane, 1,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichlorobenzene, 1,2-	1.1	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichlorobenzene, 1,3-	2.4	17	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichlorobenzene, 1,4-	1.8	9.8	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichlorodifluoromethane	NE	NE	0.012 UJ	0.012 UJ	0.011 UJ	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ
Dichloroethane, 1,1-	0.27	19	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.013 UJ
Dichloroethane, 1,2-	0.02	2.3	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichloroethene, 1,1-	0.33	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 U	0.013 U
Dichloroethene, cis-1,2-	0.25	59	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichloropropane, 1,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichloropropene, cis-1,3	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dichloropropene, trans-1,3	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Dioxane, 1,4-	0.1	9.8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Ethanol	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Hexachlorobutadiene	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Hexane, n-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ
Hexanone, 2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U
Isopropyl benzene	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Methyl tert-butyl ether	0.93	62	0.012 UJ	0.012 UJ	0.011 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Methyl-2-pentanone, 4-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Methylene chloride	0.05	51	0.012 UJ	0.012 UJ	0.011 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ
Naphthalene	12	100	0.012 U	0.012 U	0.011 U	0.011 U	0.006 J	0.009 J	0.084	0.012 U	0.071	0.24	0.11 J	0.19 J	0.012 U	0.012 U	0.013 U
Propanol, 2-	NE	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Propylbenzene, n-	3.9	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U
Styrene	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethane, 1,1,1,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrachloroethane, 1,1,2,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U
Tetrachloroethene	1.3	5.5	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Tetrahydrofuran	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trans-1,2-dichloroethene	0.19	100	0.012 UJ	0.012 UJ	0.011 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-25 (25-30) 10/27/2008	OU2MW-25 (45-50) 10/27/2008	OU2MW-25 (70-75) 10/27/2008	OU2MW-26 (8-10) 3/20/2008	OU2MW-26 (15-20) 3/20/2008	OU2MW-26 (40-45) 3/21/2008	OU2MW-26 (60-65) 3/21/2008	OU2MW-27 (8-10) 6/29/2009	OU2MW-27 (22-24) 6/29/2009	OU2MW-27 (47-49) 6/29/2009	OU2MW-27 (62-64) 6/29/2009	Duplicate of: OU2MW-27 (62-64) 6/29/2009	OU2MW-34 (10-15) 11/7/2008	OU2MW-34 (25-30) 11/7/2008	Duplicate of: OU2MW-34 (25-30) 11/7/2008
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichlorobenzene, 1,2,4-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethane, 1,1,1-	0.68	100	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethane, 1,1,2-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichloroethene	0.47	10	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trichlorofluoromethane	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.004 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trimethylbenzene, 1,2,4-	3.6	47	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.008 J	0.006 J	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Trimethylpentane, 2,2,4-	NE	NE	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U
Vinyl acetate	NE	NE	0.012 UJ	0.012 UJ	0.011 UJ	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ
Vinyl chloride	0.02	0.21	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.013 UJ
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Acenaphthylene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Anthracene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Benzo[g,h,i]perylene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Fluoranthene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Fluorene	30	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Methylnaphthalene, 2-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Naphthalene	12	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Phenanthrene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.099 J	0.41 U
Pyrene	100	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Benz[a]pyrene	1	1	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Benzo[b]fluoranthene	1	1	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Benzo[k]fluoranthene	0.8	1	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Chrysene	1	1	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Dibenz[a,h]anthracene	0.33	0.33	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	0.39 U	0.39 U	0.41 U	0.41 U	0.4 U	0.39 U	0.41 U	0.41 U
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Bis(2-chloroethyl)ether	NE	NE	0.39 UJ	0.4 UJ	0.38 UJ	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Bis(2-ethylhexyl)phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.086 J	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.23 J
Bis(chloroisopropyl)ether	NE	NE	0.39 UJ	0.4 UJ	0.38 UJ	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Bromophenyl phenyl ether, 4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Butyl benzyl phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Carbazole	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Chloro-3-methylphenol, 4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Chloroaniline, 4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Chloronaphthalene, 2-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Chlorophenol, 2-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dibenzofuran	7	14	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dichlorobenzene, 1,2-	1.1	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dichlorobenzene, 1,3-	2.4	17	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dichlorobenzene, 1,4-	1.8	9.8	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dichlorobenzidine, 3,3-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dichlorophenol, 2,4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Diethyl phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dimethyl phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dimethylphenol, 2,4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Di-n-butyl phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Dinitro-2-methylphenol, 4,6-	NE	NE	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Dinitrophenol, 2,4-	NE	NE	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Dinitrotoluene, 2,4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-25 (25-30) 10/27/2008	OU2MW-25 (45-50) 10/27/2008	OU2MW-25 (70-75) 10/27/2008	OU2MW-26 (8-10) 3/20/2008	OU2MW-26 (15-20) 3/20/2008	OU2MW-26 (40-45) 3/21/2008	OU2MW-26 (60-65) 3/21/2008	OU2MW-27 (8-10) 6/29/2009	OU2MW-27 (22-24) 6/29/2009	OU2MW-27 (47-49) 6/29/2009	OU2MW-27 (62-64) 6/29/2009	Duplicate of: OU2MW-27 (62-64) 6/29/2009	OU2MW-34 (10-15) 11/7/2008	OU2MW-34 (25-30) 11/7/2008	Duplicate of: OU2MW-34 (25-30) 11/7/2008
Dinitrotoluene, 2,6-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Di-n-octyl phthalate	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Hexachlorobenzene	0.33	0.33	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Hexachlorobutadiene	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Hexachlorocyclopentadiene	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Hexachloroethane	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Isophorone	NE	NE	0.39 UJ	0.4 UJ	0.38 UJ	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Methylphenol, 2-	0.33	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Methylphenol, 4-	0.33	34	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Nitroaniline, 2-	NE	NE	0.99 UJ	1 UJ	0.94 UJ	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 UJ	1 UJ	1 UJ
Nitroaniline, 3-	NE	NE	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Nitroaniline, 4-	NE	NE	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Nitrobenzene	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Nitrophenol, 2-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Nitrophenol, 4-	NE	NE	0.99 UJ	1 UJ	0.94 UJ	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 UJ	1 UJ	1 UJ
Nitrosodi-n-propylamine, N-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 UJ	0.41 UJ	0.41 UJ
Nitrosodiphenylamine, N-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Pentachlorophenol	0.8	2.4	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Phenol	0.33	100	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Trichlorobenzene, 1,2,4-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Trichlorophenol, 2,4,5-	NE	NE	0.99 U	1 U	0.94 U	0.95 U	0.97 U	1 U	1 U	NA	NA	NA	NA	NA	0.99 U	1 U	1 U
Trichlorophenol, 2,4,6-	NE	NE	0.39 U	0.4 U	0.38 U	0.38 U	0.39 U	0.4 U	0.41 U	NA	NA	NA	NA	NA	0.39 U	0.41 U	0.41 U
Total Metals (mg/kg)																	
Aluminum	NE	NE	391	791	1990	701	489	883	1490	NA	NA	NA	NA	NA	418	356	358
Antimony	NE	NE	0.27 U	0.27 U	0.26 U	0.50 U	0.52 U	0.53 U	0.54 U	NA	NA	NA	NA	NA	0.27 U	0.28 U	0.28 U
Arsenic	13	16	0.22 U	0.44 J	0.62 J	0.36 J	0.42 J	0.68 J	0.94 J	NA	NA	NA	NA	NA	0.44 J	0.37 J	0.27 J
Barium	350	350	2.0 J	4.5 J	8.5 J	1.9 J	1.4 J	4.6 J	7.1 J	NA	NA	NA	NA	NA	1.3 J	2.0 J	3.4 J
Beryllium	7.2	14	0.032 UJ	0.084 UJ	0.18 J	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	NA	NA	NA	NA	NA	0.038 UJ	0.037 UJ	0.026 UJ
Cadmium	2.5	2.5	0.042 U	0.042 U	0.040 U	0.031 U	0.032 U	0.033 U	0.033 U	NA	NA	NA	NA	NA	0.042 U	0.044 U	0.044 U
Calcium	NE	NE	25.6 J	58.7 J	90.8 J	66.4 J	28.0 J	44.2 J	317 J	NA	NA	NA	NA	NA	22.5 J	33.3 J	35.2 J
Chromium	NE	NE	0.86 J	5.6	6.7	3.7	1.8	2.7	3.0	NA	NA	NA	NA	NA	1.4	1.6	2.1
Cobalt	NE	NE	0.60 J	1.0 J	0.96 J	0.40 J	0.32 J	1.1 J	1.3 J	NA	NA	NA	NA	NA	0.36 J	0.44 J	0.36 J
Copper	50	270	0.94 J	2.9 J	2.3 J	1.4 J	1.4 J	1.9 J	4.2	NA	NA	NA	NA	NA	1.1 J	1.3 J	1.2 J
Iron	NE	NE	795	2830	3690	1120	724	2700	3940	NA	NA	NA	NA	NA	1410	1050	923
Lead	63	400	0.99 J	1.8 J	1.6 J	0.64	0.70	1.2	1.9	NA	NA	NA	NA	NA	0.67	1.1	0.90
Magnesium	NE	NE	92.6 J	168 J	431 J	104 J	63.9 J	210 J	408 J	NA	NA	NA	NA	NA	81.1 J	58.6 J	65.8 J
Manganese	1600	2000	6.2	30.5	20.6	9.5	5.8	33.2	106	NA	NA	NA	NA	NA	7.6	7.9	5.7
Mercury	0.18	0.81	0.026 U	0.026 U	0.025 U	0.019 U	0.019 U	0.020 U	0.021 U	NA	NA	NA	NA	NA	0.026 U	0.027 U	0.027 U
Nickel	30	140	0.71 J	1.7 J	3.1 J	0.80 J	0.59 J	1.4 J	2.5 J	NA	NA	NA	NA	NA	0.69 J	0.71 J	0.73 J
Potassium	NE	NE	112 J	149 J	286 J	52.5 J	51.3 J	130 J	170 J	NA	NA	NA	NA	NA	49.9 J	59.1 J	61.2 J
Selenium	3.9	36	0.23 U	0.23 U	0.22 U	0.49 UJ	0.50 UJ	0.52 UJ	0.53 UJ	NA	NA	NA	NA	NA	0.23 U	0.24 U	0.24 U
Silver	2	36	0.065 U	0.065 U	0.061 U	0.10 U	0.10 U	0.11 U	0.11 U	NA	NA	NA	NA	NA	0.065 U	0.067 U	0.068 U
Sodium	NE	NE	14.1 J	23.9 J	13.5 J	1.3 UJ	18.5 J	24.6 J	26.8 J	NA	NA	NA	NA	NA	0.65 UJ	8.8 J	11.5 J
Thallium	NE	NE	0.22 U	0.23 U	0.21 U	0.29 U	0.30 U	0.31 U	0.31 U	NA	NA	NA	NA	NA	0.22 U	0.23 U	0.23 U
Vanadium	NE	NE	1.2 J	4.9 J	7.0	2.3 J	1.6 J	4.1 J	5.3 J	NA	NA	NA	NA	NA	2.1 J	1.7 J	2.4 J
Zinc	109	2200	2.7	5.6	6.6	7.6	0.18 U	5.5	8.1	NA	NA	NA	NA	NA	3.9	3.5	3.2
Other (%)																	
Moisture, percent	NE	NE	16.4	17.0	12.1	12.6	14.4	17.3	18.8	15.3	16.1	18.7	18.8	17.6	16.4	19.8	20.3

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Table with columns for Sample Name, Sample Interval, Sample Date, and 17 monitoring wells (OU2MW-34 to OU2MW-37, with duplicates). Rows list various chemicals such as Benzene, Toluene, Ethylbenzene, Xylene, and numerous VOCs with their respective concentrations and units.

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-34 (45-50) 11/7/2008	OU2MW-35 (10-15) 11/4/2008	OU2MW-35 (18-20) 11/4/2008	OU2MW-35 (25-30) 11/4/2008	OU2MW-35 (45-50) 11/4/2008	OU2MW-35 (65-70) 11/4/2008	OU2MW-35 (10-15) 10/29/2008	OU2MW-36 (25-30) 10/29/2008	OU2MW-36 (45-50) 10/29/2008	OU2MW-36 (65-68) 10/29/2008	OU2MW-36 (10-15) 10/30/2008	OU2MW-37 (25-30) 10/30/2008	OU2MW-37 (45-50) 10/30/2008	Duplicate of: OU2MW-37 (45-50) 10/30/2008	OU2MW-37 (68-73) 10/30/2008
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.013 U	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichlorobenzene, 1,2,4-	NE	NE	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,1-	0.68	100	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,2-	NE	NE	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethene	0.47	10	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichlorofluoromethane	NE	NE	0.013 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene, 1,2,4-	3.6	47	0.013 U	0.012 U	0.005 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylpentane, 2,2,4-	NE	NE	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Vinyl acetate	NE	NE	0.013 UJ	0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Vinyl chloride	0.02	0.21	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Acenaphthylene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Anthracene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Benzo[g,h,i]perylene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Fluoranthene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.31 J	0.4 U	0.39 U	0.4 U	0.41 U	0.14 J	0.4 U
Fluorene	30	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Methylnaphthalene, 2-	NE	NE	0.42 U	0.4 U	0.087 J	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Naphthalene	12	100	0.42 U	0.4 U	0.16 J	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Phenanthrene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.17 J	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Pyrene	100	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.23 J	0.4 U	0.39 U	0.4 U	0.41 U	0.24 J	0.4 U
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.1 J	0.4 U	0.39 U	0.4 U	0.41 U	0.11 J	0.4 U
Benzo[a]pyrene	1	1	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.11 J	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Benzo[b]fluoranthene	1	1	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.14 J	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Benzo[k]fluoranthene	0.8	1	0.42 U	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chrysene	1	1	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.12 J	0.4 U	0.39 U	0.4 U	0.41 U	0.13 J	0.4 U
Dibenz[a,h]anthracene	0.33	0.33	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Bis(2-chloroethyl)ether	NE	NE	0.42 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.39 UJ	0.42 UJ	0.38 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.4 UJ
Bis(2-ethylhexyl)phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.13 J	0.39 U	0.4 U	0.29 J	0.32 J	0.4 U
Bis(chloroisopropyl)ether	NE	NE	0.42 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.39 UJ	0.42 UJ	0.38 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.4 UJ
Bromophenyl phenyl ether, 4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Butyl benzyl phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Carbazole	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chloro-3-methylphenol, 4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chloroaniline, 4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chloronaphthalene, 2-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chlorophenol, 2-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dibenzofuran	7	14	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dichlorobenzene, 1,2-	1.1	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dichlorobenzene, 1,3-	2.4	17	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dichlorobenzene, 1,4-	1.8	9.8	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dichlorobenzidine, 3,3'-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dichlorophenol, 2,4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Diethyl phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dimethyl phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dimethylphenol, 2,4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Di-n-butyl phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Dinitro-2-methylphenol, 4,6-	NE	NE	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Dinitrophenol, 2,4-	NE	NE	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Dinitrotoluene, 2,4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-34 (45-50) 11/7/2008	OU2MW-35 (10-15) 11/4/2008	OU2MW-35 (18-20) 11/4/2008	OU2MW-35 (25-30) 11/4/2008	OU2MW-35 (45-50) 11/4/2008	OU2MW-35 (65-70) 11/4/2008	OU2MW-35 (10-15) 10/29/2008	OU2MW-36 (25-30) 10/29/2008	OU2MW-36 (45-50) 10/29/2008	OU2MW-36 (65-68) 10/29/2008	OU2MW-36 (10-15) 10/30/2008	OU2MW-37 (25-30) 10/30/2008	OU2MW-37 (45-50) 10/30/2008	Duplicate of: OU2MW-37 (45-50) 10/30/2008	OU2MW-37 (68-73) 10/30/2008
Dinitrotoluene, 2,6-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Di-n-octyl phthalate	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Hexachlorobenzene	0.33	0.33	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Hexachlorobutadiene	NE	NE	0.42 UJ	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Hexachlorocyclopentadiene	NE	NE	0.42 UJ	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Hexachloroethane	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Isophorone	NE	NE	0.42 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.39 UJ	0.42 UJ	0.38 UJ	0.4 UJ	0.39 UJ	0.4 UJ	0.41 UJ	0.41 UJ	0.4 UJ
Methylphenol, 2-	0.33	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Methylphenol, 4-	0.33	34	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Nitroaniline, 2-	NE	NE	1.1 UJ	1 UJ	0.98 UJ	1 UJ	1 UJ	1 UJ	0.97 UJ	1.1 UJ	0.96 UJ	1 UJ	0.99 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Nitroaniline, 3-	NE	NE	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Nitroaniline, 4-	NE	NE	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Nitrobenzene	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Nitrophenol, 2-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Nitrophenol, 4-	NE	NE	1.1 UJ	1 UJ	0.98 UJ	1 UJ	1 UJ	1 UJ	0.97 UJ	1.1 UJ	0.96 UJ	1 UJ	0.99 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Nitrosodi-n-propylamine, N-	NE	NE	0.42 UJ	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Nitrosodiphenylamine, N-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Pentachlorophenol	0.8	2.4	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Phenol	0.33	100	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Trichlorobenzene, 1,2,4-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Trichlorophenol, 2,4,5-	NE	NE	1.1 U	1 U	0.98 U	1 U	1 U	1 U	0.97 U	1.1 U	0.96 U	1 U	0.99 U	1 U	1 U	1 U	1 U
Trichlorophenol, 2,4,6-	NE	NE	0.42 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.39 U	0.42 U	0.38 U	0.4 U	0.39 U	0.4 U	0.41 U	0.41 U	0.4 U
Total Metals (mg/kg)																	
Aluminum	NE	NE	543	487	310	367	595	1310	417	1320	602	1350	412	433	532	478	1440
Antimony	NE	NE	0.29 U	0.27 U	0.27 U	0.27 U	0.28 U	0.28 U	0.27 U	0.29 U	0.26 U	0.28 U	0.27 U	0.27 U	0.28 U	0.28 U	0.28 U
Arsenic	13	16	0.48 J	0.35 J	0.22 U	0.22 U	0.29 J	0.70 J	0.21 U	0.41 J	0.25 J	1.1 J	0.22 U	0.22 U	0.23 U	0.23 U	0.22 U
Barium	350	350	4.0 J	1.6 J	1.0 J	1.3 J	3.2 J	5.8 J	1.3 J	6.9 J	3.2 J	6.1 J	1.1 J	2.2 J	3.1 J	2.8 J	5.3 J
Beryllium	7.2	14	0.043 UJ	0.091 UJ	0.025 UJ	0.031 UJ	0.059 UJ	0.17 J	0.036 UJ	0.10 UJ	0.058 UJ	0.14 UJ	0.030 UJ	0.037 UJ	0.053 UJ	0.053 UJ	0.15 UJ
Cadmium	2.5	2.5	0.045 U	0.042 U	0.041 U	0.043 U	0.044 U	0.044 U	0.041 U	0.045 U	0.041 U	0.043 U	0.042 U	0.042 U	0.043 U	0.043 U	0.043 U
Calcium	NE	NE	42.3 J	33.4 J	31.3 J	19.6	34.8 J	321 J	23.3 J	57.5 J	37.9 J	434 J	25.4 J	29.5 J	37.3 J	45.1 J	381 J
Chromium	NE	NE	2.2	1.1 J	0.89 J	0.95 J	1.8	3.9	1.8	3.4	2.3	4.6	1.4	1.4	3.0	2.4	4.8
Cobalt	NE	NE	0.77 J	0.51 J	0.31 J	0.29 J	0.81 J	1.3 J	0.34 J	1.5 J	0.74 J	1.6 J	0.38 J	0.37 J	0.65 J	0.57 J	1.5 J
Copper	50	270	1.5 J	1.2 J	1.0 J	1.3 J	1.9 J	3.6	0.92 J	2.9 J	1.5 J	3.8	1.0 J	1.1 J	1.7 J	1.4 J	4.2
Iron	NE	NE	1550	1510	642	1120	1830	3680	947	2320	1480	3570	1030	972	1620	1420	3350
Lead	63	400	1.2	0.82	0.44	0.66	1.0	2.0	0.94 J	1.6 J	1.2 J	2.0 J	0.68 J	0.71 J	1.1 J	0.91 J	2.1 J
Magnesium	NE	NE	121 J	74.0 J	61.8 J	74.1 J	129 J	381 J	51.3 J	319 J	138 J	388 J	44.9 J	76.2 J	110 J	98.9 J	422 J
Manganese	1600	2000	14.5	7.5	3.5	6.7	12.2	26.5	10.7	30.6	12.3	24.7	22.9	7.6	22.5	18.4	23.2
Mercury	0.18	0.81	0.028 U	0.026 U	0.026 U	0.026 U	0.027 U	0.027 U	0.025 U	0.028 U	0.025 U	0.057	0.026 U	0.026 U	0.027 U	0.027 U	0.026 U
Nickel	30	140	1.0 J	0.69 J	0.52 J	0.57 J	1.2 J	2.7 J	0.64 J	1.9 J	1.1 J	3.0 J	0.45 J	0.65 J	0.89 J	0.94 J	3.0 J
Potassium	NE	NE	85.5 J	56.0 J	57.2 J	55.9 J	96.6 J	183 J	88.7 J	250 J	118 J	239 J	74.4 J	96.0 J	118 J	119 J	247 J
Selenium	3.9	36	0.25 U	0.35 UJ	0.23 U	0.23 U	0.24 U	0.34 UJ	0.26 UJ	0.25 U	0.22 U	0.24 U	0.23 U	0.23 U	0.24 U	0.24 U	0.23 U
Silver	2	36	0.069 U	0.065 U	0.064 U	0.065 U	0.067 U	0.067 U	0.063 U	0.069 U	0.062 U	0.066 U	0.064 U	0.065 U	0.066 U	0.067 U	0.065 U
Sodium	NE	NE	4.2 J	1.3 J	5.1 J	1.7 J	4.1 J	26.0 J	9.8 J	34.8 J	13.8 J	24.9 J	9.1 J	25.7 J	26.1 J	25.8 J	47.6 J
Thallium	NE	NE	0.24 U	0.70 UJ	0.22 U	0.23 U	0.23 U	0.40 UJ	0.22 U	0.24 U	0.22 U	0.23 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U
Vanadium	NE	NE	3.0 J	1.9 J	1.0 J	1.3 J	2.6 J	5.8 J	1.3 J	4.5 J	2.4 J	5.9 J	1.4 J	1.6 J	2.5 J	2.2 J	6.3
Zinc	109	2200	5.9	7.6	2.7	8.3	4.0	9.4	3.9	7.0	4.6	6.9	4.0	2.6	4.3	3.9	6.2
Other (%)																	
Moisture, percent	NE	NE	21.6	16.7	15.1	17.3	19.7	19.6	14.4	21.8	13.3	18.3	16.0	17.0	18.7	18.8	17.5

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
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Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-38 (10-15) 11/3/2008	OU2MW-38 (25-30) 11/3/2008	OU2MW-38 (45-50) 11/3/2008	OU2MW-38 (70-73) 11/3/2008	OU2MW-39 (10-15) 10/31/2008	OU2MW-39 (25-30) 10/31/2008	OU2MW-39 (45-50) 10/31/2008	OU2MW-43 (10-12) 10/27/2009	OU2MW-43 (13) 10/27/2009	OU2MW-43 (25-27) 10/27/2009	OU2MW-43 (28) 10/27/2009	OU2MW-43 (47-49) 10/27/2009	OU2MW-43 (49) 10/27/2009	OU2MW-43 (67-69) 10/27/2009	OU2MW-43 (69) 10/27/2009
Benzene	0.06	2.9	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Toluene	0.7	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Ethylbenzene	1	30	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Xylene, m,p-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Xylene, o-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Other VOCs (mg/kg)																	
Acetaldehyde	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Acetone	0.05	100	0.012 UJ	0.008 J	0.007 J	0.025 J	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Allyl chloride	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Bromodichloromethane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Bromoform	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Bromomethane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Butadiene, 1,3-	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Butanone, 2-	0.12	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Carbon disulfide	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Carbon tetrachloride	0.76	1.4	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Chlorobenzene	1.1	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Chloroethane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Chloroform	0.37	10	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Chloromethane	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Chlorotoluene	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Cryofluorane	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Cyclohexane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dibromochloromethane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dibromoethane, 1,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichlorobenzene, 1,2-	1.1	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichlorobenzene, 1,3-	2.4	17	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichlorobenzene, 1,4-	1.8	9.8	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichlorodifluoromethane	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Dichloroethane, 1,1-	0.27	19	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 U	0.012 U	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloroethane, 1,2-	0.02	2.3	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloroethene, 1,1-	0.33	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloroethene, cis-1,2-	0.25	59	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloropropane, 1,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloropropene, cis-1,3	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dichloropropene, trans-1,3	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Dioxane, 1,4-	0.1	9.8	R	R	R	R	R	R	R	NA	R	NA	R	NA	R	NA	R
Ethanol	NE	NE	R	R	R	R	R	R	R	NA	R	NA	R	NA	R	NA	R
Heptane, n-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Hexachlorobutadiene	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Hexane, n-	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Hexanone, 2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Isopropyl benzene	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Methyl tert-butyl ether	0.93	62	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Methyl-2-pentanone, 4-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Methylene chloride	0.05	51	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 UJ	NA	0.012 UJ	NA	0.012 UJ	NA	0.012 UJ
Naphthalene	12	100	0.012 U	0.17 J	0.006 J	0.003 J	0.011 U	0.033 J	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.14	NA	0.032
Propanol, 2-	NE	NE	R	R	R	R	R	R	R	NA	R	NA	R	NA	R	NA	R
Propylbenzene, n-	3.9	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Styrene	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Tetrachloroethane, 1,1,1,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Tetrachloroethane, 1,1,2,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Tetrachloroethene	1.3	5.5	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Tetrahydrofuran	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trans-1,2-dichloroethene	0.19	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-38 (10-15) 11/3/2008	OU2MW-38 (25-30) 11/3/2008	OU2MW-38 (45-50) 11/3/2008	OU2MW-38 (70-73) 11/3/2008	OU2MW-39 (10-15) 10/31/2008	OU2MW-39 (25-30) 10/31/2008	OU2MW-39 (45-50) 10/31/2008	OU2MW-43 (10-12) 10/27/2009	OU2MW-43 (13) 10/27/2009	OU2MW-43 (25-27) 10/27/2009	OU2MW-43 (28) 10/27/2009	OU2MW-43 (47-49) 10/27/2009	OU2MW-43 (49) 10/27/2009	OU2MW-43 (67-69) 10/27/2009	OU2MW-43 (69) 10/27/2009
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trichlorobenzene, 1,2,4-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trichloroethane, 1,1,1-	0.68	100	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trichloroethane, 1,1,2-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trichloroethene	0.47	10	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trichlorofluoromethane	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trimethylbenzene, 1,2,4-	3.6	47	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Trimethylpentane, 2,2,4-	NE	NE	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Vinyl acetate	NE	NE	0.012 UJ	0.013 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.013 UJ	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Vinyl chloride	0.02	0.21	0.012 U	0.013 U	0.012 U	0.012 U	0.011 U	0.012 U	0.013 U	NA	0.013 U	NA	0.012 U	NA	0.012 U	NA	0.012 U
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Acenaphthylene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Anthracene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Benzo[g,h,i]perylene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 UJ	0.39 UJ	0.42 UJ	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Fluoranthene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Fluorene	30	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Methylnaphthalene, 2-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Naphthalene	12	100	0.39 U	0.14 J	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.3 J	NA	0.4 U	NA	0.087 J	NA	0.41 U	NA
Phenanthrene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Pyrene	100	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Benzo[a]pyrene	1	1	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Benzo[b]fluoranthene	1	1	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Benzo[k]fluoranthene	0.8	1	0.39 UJ	0.42 UJ	0.4 UJ	0.39 UJ	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chrysene	1	1	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dibenz[a,h]anthracene	0.33	0.33	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Bis(2-chloroethyl)ether	NE	NE	0.39 UJ	0.42 UJ	0.4 UJ	0.39 UJ	0.38 UJ	0.39 UJ	0.42 UJ	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Bis(2-ethylhexyl)phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.59 J	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Bis(chloroisopropyl)ether	NE	NE	0.39 UJ	0.42 UJ	0.4 UJ	0.39 UJ	0.38 UJ	0.39 UJ	0.42 UJ	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Bromophenyl phenyl ether, 4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Butyl benzyl phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Carbazole	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chloro-3-methylphenol, 4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chloroaniline, 4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chloronaphthalene, 2-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chlorophenol, 2-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Chlorophenyl phenyl ether, 4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dibenzofuran	7	14	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dichlorobenzene, 1,2-	1.1	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dichlorobenzene, 1,3-	2.4	17	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dichlorobenzene, 1,4-	1.8	9.8	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dichlorobenzidine, 3,3'-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dichlorophenol, 2,4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Diethyl phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dimethyl phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dimethylphenol, 2,4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Di-n-butyl phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Dinitro-2-methylphenol, 4,6-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Dinitrophenol, 2,4-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Dinitrotoluene, 2,4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-38 (10-15) 11/3/2008	OU2MW-38 (25-30) 11/3/2008	OU2MW-38 (45-50) 11/3/2008	OU2MW-38 (70-73) 11/3/2008	OU2MW-39 (10-15) 10/31/2008	OU2MW-39 (25-30) 10/31/2008	OU2MW-39 (45-50) 10/31/2008	OU2MW-43 (10-12) 10/27/2009	OU2MW-43 (13) 10/27/2009	OU2MW-43 (25-27) 10/27/2009	OU2MW-43 (28) 10/27/2009	OU2MW-43 (47-49) 10/27/2009	OU2MW-43 (49) 10/27/2009	OU2MW-43 (67-69) 10/27/2009	OU2MW-43 (69) 10/27/2009
Dinitrotoluene, 2,6-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Di-n-octyl phthalate	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Hexachlorobenzene	0.33	0.33	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Hexachlorobutadiene	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Hexachlorocyclopentadiene	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Hexachloroethane	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Isophorone	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Methylphenol, 2-	0.33	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Methylphenol, 4-	0.33	34	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Nitroaniline, 2-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Nitroaniline, 3-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Nitroaniline, 4-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Nitrobenzene	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Nitrophenol, 2-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Nitrophenol, 4-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Nitrosodi-n-propylamine, N-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Nitrosodiphenylamine, N-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Pentachlorophenol	0.8	2.4	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Phenol	0.33	100	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Trichlorobenzene, 1,2,4-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Trichlorophenol, 2,4,5-	NE	NE	0.97 U	1 U	1 U	0.98 U	0.95 U	0.99 U	1.1 U	0.99 U	NA	1 U	NA	1 U	NA	1 U	NA
Trichlorophenol, 2,4,6-	NE	NE	0.39 U	0.42 U	0.4 U	0.39 U	0.38 U	0.39 U	0.42 U	0.39 U	NA	0.4 U	NA	0.4 U	NA	0.41 U	NA
Total Metals (mg/kg)																	
Aluminum	NE	NE	618	382	489	2360	462	2540	459	637	NA	418	NA	442	NA	930	NA
Antimony	NE	NE	0.27 U	0.29 U	0.28 U	0.27 U	0.26 U	0.27 U	0.29 U	0.31 U	NA	0.26 U	NA	0.26 U	NA	0.27 U	NA
Arsenic	13	16	0.27 J	0.23 U	0.32 J	1.7	0.21 U	0.25 J	0.23 U	0.27 U	NA	0.28 U	NA	0.28 U	NA	0.70 J	NA
Barium	350	350	2.1 J	1.8 J	3.0 J	8.8 J	1.7 J	7.6 J	2.2 J	1.8 J	NA	1.1 J	NA	2.5 J	NA	3.1 J	NA
Beryllium	7.2	14	0.048 U	0.048 U	0.048 U	0.22 J	0.025 U	0.12 U	0.045 U	0.12 U	NA	0.054 U	NA	0.048 U	NA	0.089 U	NA
Cadmium	2.5	2.5	0.041 U	0.044 U	0.043 U	0.041 U	0.040 U	0.093 U	0.045 U	0.040 U	NA	0.041 U	NA	0.041 U	NA	0.042 U	NA
Calcium	NE	NE	48.7 J	29.1 J	39.4 J	765	26.5 J	52.2 J	23.8 J	49.7 J	NA	29.3 J	NA	29.7 J	NA	168 J	NA
Chromium	NE	NE	1.8	2.1	3.2	7.6	3.6	10.9	2.1	0.56 J	NA	0.30 J	NA	0.27 U	NA	1.7 J	NA
Cobalt	NE	NE	0.60 J	0.35 J	0.51 J	2.3 J	0.28 J	1.3 J	0.51 J	0.53 J	NA	0.34 J	NA	0.52 J	NA	1.4 J	NA
Copper	50	270	1.9 J	1.1 J	1.6 J	6.5	1.3 J	4.0	1.2 J	1.1 J	NA	1.0 J	NA	1.2 J	NA	2.5 J	NA
Iron	NE	NE	1680	1390	2060	5470	985	5620	1780	1020	NA	1040	NA	1040	NA	3470	NA
Lead	63	400	1.1	0.66	0.82	3.1	0.56 J	1.4 J	0.87 J	1.1	NA	0.71	NA	0.98	NA	1.7	NA
Magnesium	NE	NE	107 J	68.8 J	108 J	733	82.1 J	1350	77.1 J	78.0 J	NA	79.5 J	NA	102 J	NA	281 J	NA
Manganese	1600	2000	14.0	7.8	17.7	39.1	7.5	40.2	15.7	5.5 J	NA	7.2 J	NA	13.4 J	NA	18.5 J	NA
Mercury	0.18	0.81	0.025 U	0.027 U	0.026 U	0.026 U	0.025 U	0.026 U	0.028 U	0.020 U	NA	0.020 U	NA	0.020 U	NA	0.021 U	NA
Nickel	30	140	0.81 J	0.75 J	0.96 J	4.5 J	0.93 J	2.7 J	0.90 J	0.17 U	NA	0.17 U	NA	0.17 U	NA	1.6 J	NA
Potassium	NE	NE	82.1 J	58.9 J	83.7 J	365 J	90.9 J	240 J	103 J	110 J	NA	78.7 J	NA	111 J	NA	154 J	NA
Selenium	3.9	36	0.34 U	0.34 U	0.23 U	0.36 U	0.22 U	0.23 U	0.25 U	0.30 U	NA	0.30 U	NA	0.30 U	NA	0.31 U	NA
Silver	2	36	0.063 U	0.068 U	0.065 U	0.064 U	0.062 U	0.064 U	0.069 U	0.099 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
Sodium	NE	NE	0.64 U	7.0 J	8.4 J	42.9 J	11.2 J	24.6 J	24.7 J	14.2 J	NA	1.1 U	NA	1.1 U	NA	80.9 J	NA
Thallium	NE	NE	0.22 U	0.24 U	0.23 U	0.26 U	0.21 U	0.22 U	0.24 U	0.46 J	NA	0.39 U	NA	0.39 U	NA	0.40 U	NA
Vanadium	NE	NE	2.8 J	1.8 J	2.3 J	10.5	1.5 J	6.0	2.2 J	2.1 J	NA	2.0 J	NA	1.8 J	NA	4.1 J	NA
Zinc	109	2200	5.2	2.7	3.6	11.2	4.8	19.3	3.0	3.3	NA	3.1 U	NA	3.1 U	NA	6.5	NA
Other (%)																	
Moisture, percent	NE	NE	14.5	20.7	17.5	15.1	12.3	16.1	21.5	16.0	21.2	16.9	18.3	16.8	18.1	19.9	19.8

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-44 (12-14) 10/28/2009	OU2MW-44 (14) 10/28/2009	OU2MW-44 (27-29) 10/28/2009	OU2MW-44 (29) 10/28/2009	OU2MW-44 (46-48) 10/28/2009	OU2MW-44 (48) 10/28/2009	OU2MW-44 (66-68) 10/28/2009	OU2MW-44 (68) 10/28/2009	OU2MW-48 (10-12) 5/6/2009	OU2MW-48 (25-30) 5/6/2009	OU2MW-48 (45-50) 5/6/2009	OU2MW-48 (65-70) 5/6/2009	OU2MW-49 (12-15) 5/7/2009	OU2MW-49 (25-30) 5/7/2009	OU2MW-49 (45-50) 5/7/2009
Benzene	0.06	2.9	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Toluene	0.7	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Ethylbenzene	1	30	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Xylene, m,p-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Xylene, o-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Other VOCs (mg/kg)																	
Acetaldehyde	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	R	R	R	R	R	R	R
Acetone	0.05	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Allyl chloride	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 UJ	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Bromodichloromethane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Bromoform	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Bromomethane	NE	NE	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 UJ	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Butadiene, 1,3-	NE	NE	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 UJ	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Butanone, 2-	0.12	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.003 J	0.012 U	0.012 U
Carbon disulfide	NE	NE	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 UJ	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Carbon tetrachloride	0.76	1.4	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Chlorobenzene	1.1	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Chloroethane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Chloroform	0.37	10	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Chloromethane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Chlorotoluene	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 UJ	NA	0.013 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ
Cryofluorane	NE	NE	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 U	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Cyclohexane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dibromochloromethane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dibromoethane, 1,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,2-	1.1	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,3-	2.4	17	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichlorobenzene, 1,4-	1.8	9.8	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichlorodifluoromethane	NE	NE	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 U	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloroethane, 1,1-	0.27	19	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloroethane, 1,2-	0.02	2.3	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloroethene, 1,1-	0.33	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloroethene, cis-1,2-	0.25	59	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloropropane, 1,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloropropene, cis-1,3	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dichloropropene, trans-1,3	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Dioxane, 1,4-	0.1	9.8	NA	R	NA	R	NA	R	NA	R	R	R	R	R	R	R	R
Ethanol	NE	NE	NA	R	NA	R	NA	R	NA	R	R	R	R	R	R	R	R
Heptane, n-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 UJ	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Hexachlorobutadiene	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Hexane, n-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 UJ	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Hexanone, 2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Isopropyl benzene	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Methyl tert-butyl ether	0.93	62	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Methyl-2-pentanone, 4-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Methylene chloride	0.05	51	NA	0.012 UJ	NA	0.012 UJ	NA	0.013 U	NA	0.013 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Naphthalene	12	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.003 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Propanol, 2-	NE	NE	NA	R	NA	R	NA	R	NA	R	R	R	R	R	R	R	R
Propylbenzene, n-	3.9	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Styrene	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Tetrachloroethane, 1,1,1,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Tetrachloroethane,1,1,2,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Tetrachloroethene	1.3	5.5	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Tetrahydrofuran	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trans-1,2-dichloroethene	0.19	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-44 (12-14) 10/28/2009	OU2MW-44 (14) 10/28/2009	OU2MW-44 (27-29) 10/28/2009	OU2MW-44 (29) 10/28/2009	OU2MW-44 (46-48) 10/28/2009	OU2MW-44 (48) 10/28/2009	OU2MW-44 (66-68) 10/28/2009	OU2MW-44 (68) 10/28/2009	OU2MW-48 (10-12) 5/6/2009	OU2MW-48 (25-30) 5/6/2009	OU2MW-48 (45-50) 5/6/2009	OU2MW-48 (65-70) 5/6/2009	OU2MW-49 (12-15) 5/7/2009	OU2MW-49 (25-30) 5/7/2009	OU2MW-49 (45-50) 5/7/2009
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichlorobenzene, 1,2,4-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,1-	0.68	100	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethane, 1,1,2-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichloroethene	0.47	10	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trichlorofluoromethane	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylbenzene, 1,2,4-	3.6	47	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Trimethylpentane, 2,2,4-	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Vinyl acetate	NE	NE	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Vinyl chloride	0.02	0.21	NA	0.012 U	NA	0.012 U	NA	0.013 U	NA	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Non-carcinogenic PAHs (mg/kg)																	
Acenaphthene	20	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Acenaphthylene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Anthracene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Benzo[g,h,i]perylene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Fluoranthene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Fluorene	30	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Methylnaphthalene, 2-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Naphthalene	12	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Phenanthrene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Pyrene	100	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Carcinogenic PAHs (mg/kg)																	
Benz[a]anthracene	1	1	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Benzo[a]pyrene	1	1	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Benzo[b]fluoranthene	1	1	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Benzo[k]fluoranthene	0.8	1	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chrysene	1	1	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dibenz[a,h]anthracene	0.33	0.33	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Other SVOCs (mg/kg)																	
Bis(2-chloroethoxy)methane	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Bis(2-chloroethyl)ether	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Bis(2-ethylhexyl)phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.081 J	0.13 J	0.38 U	0.39 U	0.39 U
Bis(chloroisopropyl)ether	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Bromophenyl phenyl ether, 4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Butyl benzyl phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Carbazole	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chloro-3-methylphenol, 4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chloroaniline, 4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chloronaphthalene, 2-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chlorophenol, 2-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dibenzofuran	7	14	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dichlorobenzene, 1,2-	1.1	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dichlorobenzene, 1,3-	2.4	17	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dichlorobenzene, 1,4-	1.8	9.8	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dichlorobenzidine, 3,3'-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dichlorophenol, 2,4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Diethyl phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.08 J	0.096 J	0.15 J	0.12 J	0.15 J	0.084 J	0.1 J
Dimethyl phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Dimethylphenol, 2,4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Di-n-butyl phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.085 J	0.39 U
Dinitro-2-methylphenol, 4,6-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Dinitrophenol, 2,4-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Dinitrotoluene, 2,4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-44 (12-14) 10/28/2009	OU2MW-44 (14) 10/28/2009	OU2MW-44 (27-29) 10/28/2009	OU2MW-44 (29) 10/28/2009	OU2MW-44 (46-48) 10/28/2009	OU2MW-44 (48) 10/28/2009	OU2MW-44 (66-68) 10/28/2009	OU2MW-44 (68) 10/28/2009	OU2MW-48 (10-12) 5/6/2009	OU2MW-48 (25-30) 5/6/2009	OU2MW-48 (45-50) 5/6/2009	OU2MW-48 (65-70) 5/6/2009	OU2MW-49 (12-15) 5/7/2009	OU2MW-49 (25-30) 5/7/2009	OU2MW-49 (45-50) 5/7/2009
Dinitrotoluene, 2,6-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Di-n-octyl phthalate	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Hexachlorobenzene	0.33	0.33	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Hexachlorobutadiene	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Hexachlorocyclopentadiene	NE	NE	0.39 UJ	NA	0.39 UJ	NA	0.42 UJ	NA	0.41 UJ	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Hexachloroethane	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Isophorone	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Methylphenol, 2-	0.33	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Methylphenol, 4-	0.33	34	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Nitroaniline, 2-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Nitroaniline, 3-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Nitroaniline, 4-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Nitrobenzene	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Nitrophenol, 2-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Nitrophenol, 4-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Nitrosodi-n-propylamine, N-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Nitrosodiphenylamine, N-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Pentachlorophenol	0.8	2.4	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Phenol	0.33	100	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Trichlorobenzene, 1,2,4-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Trichlorophenol, 2,4,5-	NE	NE	0.98 U	NA	0.98 U	NA	1.1 U	NA	1 U	NA	0.99 U	1 U	0.97 U	1 U	0.96 U	0.98 U	0.98 U
Trichlorophenol, 2,4,6-	NE	NE	0.39 U	NA	0.39 U	NA	0.42 U	NA	0.41 U	NA	0.4 U	0.4 U	0.39 U	0.41 U	0.38 U	0.39 U	0.39 U
Total Metals (mg/kg)																	
Aluminum	NE	NE	578	NA	376	NA	835	NA	1150	NA	762	525	450	1580	574	348	606
Antimony	NE	NE	0.25 U	NA	0.25 U	NA	0.27 U	NA	0.26 U	NA	0.33 U	0.34 U	0.32 U	0.36 J	0.32 U	0.32 U	0.32 U
Arsenic	13	16	0.27 U	NA	0.27 U	NA	0.29 U	NA	0.28 U	NA	0.34 U	0.34 U	0.33 U	1.4	0.52 J	0.33 U	0.33 U
Barium	350	350	1.3 J	NA	1.1 J	NA	3.7 J	NA	6.1 J	NA	1.7 J	3.5 J	2.3 J	7.4 J	1.7 J	1.5 J	3.7 J
Beryllium	7.2	14	0.031 U	NA	0.038 UJ	NA	0.090 UJ	NA	0.10 UJ	NA	0.040 UJ	0.053 UJ	0.033 UJ	0.13 J	0.043 UJ	0.030 UJ	0.043 UJ
Cadmium	2.5	2.5	0.040 U	NA	0.040 U	NA	0.043 U	NA	0.042 U	NA	0.028 U	0.029 U	0.027 U	0.029 U	0.056 UJ	0.028 U	0.028 U
Calcium	NE	NE	119 J	NA	23.6 J	NA	47.6 J	NA	123 J	NA	41.6 J	27.6 J	24.8 J	403 J	41.3 J	20.2 J	34.2 J
Chromium	NE	NE	0.16 UJ	NA	0.27 UJ	NA	2.4 J	NA	1.8 J	NA	1.9	2.1	1.3	4.8	4.9	2.0	1.8
Cobalt	NE	NE	0.14 U	NA	0.25 J	NA	0.90 J	NA	1.6 J	NA	0.58 J	0.63 J	0.66 J	1.6 J	0.39 J	0.23 J	0.67 J
Copper	50	270	0.76 J	NA	1.5 J	NA	2.3 J	NA	3.0 J	NA	1.7 J	1.7 J	1.2 J	4.9	2.0 J	1.3 J	1.6 J
Iron	NE	NE	382	NA	967	NA	2420	NA	3320	NA	1170	1470	844	4450	1820	858	997
Lead	63	400	0.86	NA	0.64	NA	1.7	NA	1.8	NA	1.1	1.1	0.86	2.1	1.1	0.88	1.1
Magnesium	NE	NE	122 J	NA	71.1 J	NA	188 J	NA	316 J	NA	85.2 J	96.6 J	96.4 J	556 J	89.2 J	62.8 J	126 J
Manganese	1600	2000	5.2 J	NA	5.3 J	NA	37.9 J	NA	66.0 J	NA	5.0	33.4	21.8	34.4	4.8	9.4	66.8
Mercury	0.18	0.81	0.020 U	NA	0.020 U	NA	0.021 U	NA	0.021 U	NA	0.020 U	0.020 U	0.020 U	0.021 U	0.019 U	0.020 U	0.020 U
Nickel	30	140	0.17 UJ	NA	0.17 UJ	NA	0.81 J	NA	1.6 J	NA	1.0 J	0.98 J	0.82 J	3.1 J	0.91 J	0.64 J	1.1 J
Potassium	NE	NE	96.2 J	NA	76.5 J	NA	152 J	NA	186 J	NA	73.5 J	88.5 J	92.7 J	314 J	87.8 J	52.4 J	121 J
Selenium	3.9	36	0.29 U	NA	0.29 U	NA	0.32 U	NA	0.31 U	NA	0.32 UJ	0.33 UJ	0.31 UJ	0.33 UJ	0.31 UJ	0.32 UJ	0.32 UJ
Silver	2	36	0.098 U	NA	0.098 U	NA	0.11 U	NA	0.10 U	NA	0.072 U	0.073 U	0.070 U	0.074 U	0.069 U	0.071 U	0.071 U
Sodium	NE	NE	1.1 UJ	NA	1.1 UJ	NA	1.2 UJ	NA	1.1 UJ	NA	12.3 J	19.0 J	21.2 J	41.1 J	19.4 J	26.3 J	22.9 J
Thallium	NE	NE	0.38 U	NA	0.38 U	NA	0.41 U	NA	0.39 U	NA	0.39 U	0.40 U	0.38 U	0.40 U	0.38 U	0.38 U	0.39 U
Vanadium	NE	NE	0.84 J	NA	2.1 J	NA	3.9 J	NA	5.0 J	NA	2.4 J	2.9 J	1.6 J	6.8	4.7 J	2.0 J	2.0 J
Zinc	109	2200	3.0 J	NA	2.7 U	NA	5.3	NA	6.9	NA	7.3	3.9	3.9	9.5	13.8	3.5	3.9
Other (%)																	
Moisture, percent	NE	NE	15.4	15.7	15.6	14.0	21.2	20.2	18.7	20.7	16.5	18.4	14.7	19.1	13.6	15.3	15.5

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-52 (3-8) 4/3/2009	OU2MW-52 (20-25) 4/3/2009	Duplicate of: OU2MW-52 (20-25) 4/3/2009	OU2MW-52 (35-40) 4/3/2009	OU2MW-53 (3-8) 4/2/2009	OU2MW-53 (20-25) 4/2/2009	OU2MW-53 (35-40) 4/2/2009
Benzene	0.06	2.9	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Toluene	0.7	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Ethylbenzene	1	30	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Xylene, m,p-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Xylene, o-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Other VOCs (mg/kg)									
Acetaldehyde	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Acetone	0.05	100	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.043 UJ	0.037 UJ
Allyl chloride	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Bromodichloromethane	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Bromoform	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Bromomethane	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Butadiene, 1,3-	NE	NE	R	R	R	R	R	R	R
Butanone, 2-	0.12	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Carbon disulfide	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 U	0.011 UJ	0.012 UJ	0.012 UJ
Carbon tetrachloride	0.76	1.4	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Chlorobenzene	1.1	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Chloroethane	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Chloroform	0.37	10	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Chloromethane	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Chlorotoluene	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Cryofluorane	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Cyclohexane	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dibromochloromethane	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dibromoethane, 1,2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichlorobenzene, 1,2-	1.1	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichlorobenzene, 1,3-	2.4	17	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichlorobenzene, 1,4-	1.8	9.8	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichlorodifluoromethane	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Dichloroethane, 1,1-	0.27	19	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichloroethane, 1,2-	0.02	2.3	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichloroethene, 1,1-	0.33	100	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Dichloroethene, cis-1,2-	0.25	59	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichloropropane, 1,2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichloropropene, cis-1,3	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dichloropropene, trans-1,3	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Dioxane, 1,4-	0.1	9.8	R	R	R	R	R	R	R
Ethanol	NE	NE	R	R	R	R	R	R	R
Heptane, n-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Hexachlorobutadiene	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Hexane, n-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Hexanone, 2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Isopropyl benzene	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Methyl tert-butyl ether	0.93	62	0.011 UJ	0.012 UJ	0.012 UJ	0.002 J	0.011 UJ	0.012 UJ	0.012 UJ
Methyl-2-pentanone, 4-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Methylene chloride	0.05	51	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Naphthalene	12	100	0.003 J	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Propanol, 2-	NE	NE	0.55 UJ	0.61 UJ	0.61 UJ	0.59 UJ	0.57 UJ	0.59 UJ	0.6 UJ
Propylbenzene, n-	3.9	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Styrene	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Tetrachloroethane, 1,1,1,2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Tetrachloroethane,1,1,2,2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Tetrachloroethene	1.3	5.5	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Tetrahydrofuran	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trans-1,2-dichloroethene	0.19	100	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-52 (3-8) 4/3/2009	OU2MW-52 (20-25) 4/3/2009	Duplicate of: OU2MW-52 (20-25) 4/3/2009	OU2MW-52 (35-40) 4/3/2009	OU2MW-53 (3-8) 4/2/2009	OU2MW-53 (20-25) 4/2/2009	OU2MW-53 (35-40) 4/2/2009
Trichloro-1,2,2-trifluoroethane, 1,1,2-	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Trichlorobenzene, 1,2,4-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trichloroethane, 1,1,1-	0.68	100	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trichloroethane, 1,1,2-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trichloroethene	0.47	10	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trichlorofluoromethane	NE	NE	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Trimethylbenzene 1,3,5-/P-ethyltoluene	8.4	47	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trimethylbenzene, 1,2,4-	3.6	47	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Trimethylpentane, 2,2,4-	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Vinyl acetate	NE	NE	0.011 U	0.012 U	0.012 U	0.012 U	0.011 U	0.012 U	0.012 U
Vinyl chloride	0.02	0.21	0.011 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.011 UJ	0.012 UJ	0.012 UJ
Non-carcinogenic PAHs (mg/kg)									
Acenaphthene	20	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Acenaphthylene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Anthracene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Benzo[g,h,i]perylene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Fluoranthene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Fluorene	30	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Methylnaphthalene, 2-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Naphthalene	12	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Phenanthrene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Pyrene	100	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Carcinogenic PAHs (mg/kg)									
Benz[a]anthracene	1	1	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Benzo[a]pyrene	1	1	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Benzo[b]fluoranthene	1	1	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Benzo[k]fluoranthene	0.8	1	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chrysene	1	1	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dibenz[a,h]anthracene	0.33	0.33	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Other SVOCs (mg/kg)									
Bis(2-chloroethoxy)methane	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Bis(2-chloroethyl)ether	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Bis(2-ethylhexyl)phthalate	NE	NE	0.086 J	0.4 U	0.4 U	0.12 J	0.16 J	0.39 U	0.4 U
Bis(chloroisopropyl)ether	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Bromophenyl phenyl ether, 4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Butyl benzyl phthalate	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Carbazole	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chloro-3-methylphenol, 4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chloroaniline, 4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chloronaphthalene, 2-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chlorophenol, 2-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Chlorophenyl phenyl ether, 4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dibenzofuran	7	14	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dichlorobenzene, 1,2-	1.1	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dichlorobenzene, 1,3-	2.4	17	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dichlorobenzene, 1,4-	1.8	9.8	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dichlorobenzidine, 3,3-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dichlorophenol, 2,4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Diethyl phthalate	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dimethyl phthalate	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dimethylphenol, 2,4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Di-n-butyl phthalate	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Dinitro-2-methylphenol, 4,6-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Dinitrophenol, 2,4-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Dinitrotoluene, 2,4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U

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Soil Analytical Results
Monitoring Well Cluster Locations
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Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Interval: Sample Date:	6 NYCRR 375 SCO UNRESTRICTED USE	6 NYCRR 375 SCO RESTRICTED USE RES	OU2MW-52 (3-8) 4/3/2009	OU2MW-52 (20-25) 4/3/2009	Duplicate of: OU2MW-52 (20-25) 4/3/2009	OU2MW-52 (35-40) 4/3/2009	OU2MW-53 (3-8) 4/2/2009	OU2MW-53 (20-25) 4/2/2009	OU2MW-53 (35-40) 4/2/2009
Dinitrotoluene, 2,6-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Di-n-octyl phthalate	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Hexachlorobenzene	0.33	0.33	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Hexachlorobutadiene	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Hexachlorocyclopentadiene	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Hexachloroethane	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Isophorone	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Methylphenol, 2-	0.33	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Methylphenol, 4-	0.33	34	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Nitroaniline, 2-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Nitroaniline, 3-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Nitroaniline, 4-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Nitrobenzene	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Nitrophenol, 2-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Nitrophenol, 4-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Nitrosodi-n-propylamine, N-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Nitrosodiphenylamine, N-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Pentachlorophenol	0.8	2.4	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Phenol	0.33	100	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Trichlorobenzene, 1,2,4-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Trichlorophenol, 2,4,5-	NE	NE	0.92 U	1 U	1 U	0.98 U	0.95 U	0.98 U	1 U
Trichlorophenol, 2,4,6-	NE	NE	0.36 U	0.4 U	0.4 U	0.39 U	0.38 U	0.39 U	0.4 U
Total Metals (mg/kg)									
Aluminum	NE	NE	4170	669	448	461	1360	644	592
Antimony	NE	NE	0.30 U	0.33 U	0.33 U	0.32 U	0.31 U	0.32 U	0.33 U
Arsenic	13	16	0.88 J	0.52 J	0.34 U	0.38 J	0.32 U	0.33 U	1.0 J
Barium	350	350	5.1 J	2.0 J	1.6 J	2.2 J	2.0 J	2.6 J	2.0 J
Beryllium	7.2	14	0.080 UJ	0.076 UJ	0.043 UJ	0.052 UJ	0.054 UJ	0.065 UJ	0.087 UJ
Cadmium	2.5	2.5	0.026 U	0.028 U	0.028 U	0.028 U	0.027 U	0.028 U	0.028 U
Calcium	NE	NE	64.7 J	45.9 UJ	36.4 UJ	28.9 UJ	57.2 J	32.2 UJ	68.1 J
Chromium	NE	NE	4.6	3.6	1.2 J	1.6	2.1	1.8	3.7
Cobalt	NE	NE	0.81 J	0.75 J	0.51 J	0.63 J	0.44 J	0.64 J	0.83 J
Copper	50	270	1.1 J	1.9 J	1.3 J	1.4 J	0.80 UJ	1.6 J	2.3 J
Iron	NE	NE	2250	2190 J	1040 J	1700	1490	1610	3290
Lead	63	400	2.5	0.84	0.71	0.94	1.2	0.92	1.3
Magnesium	NE	NE	261 J	100 J	93.9 J	90.5 J	182 J	132 J	122 J
Manganese	1600	2000	9.0	9.4	7.6	30.9	7.2	11.4	21.9
Mercury	0.18	0.81	0.018 U	0.020 U	0.020 U	0.020 U	0.019 U	0.020 U	0.020 U
Nickel	30	140	1.9 J	1.0 J	0.84 J	0.81 J	1.2 J	1.3 J	1.4 J
Potassium	NE	NE	125 UJ	98.0 UJ	95.4 UJ	110 UJ	115 UJ	126 UJ	115 UJ
Selenium	3.9	36	0.30 U	0.33 U	0.33 U	0.32 U	0.31 U	0.32 U	0.32 U
Silver	2	36	0.066 U	0.073 U	0.073 U	0.071 U	0.069 U	0.071 U	0.072 U
Sodium	NE	NE	23.8 UJ	26.5 UJ	33.6 UJ	22.7 UJ	15.3 UJ	19.0 UJ	23.2 UJ
Thallium	NE	NE	0.36 U	0.40 U	0.40 U	0.38 U	0.37 U	0.39 U	0.39 U
Vanadium	NE	NE	6.7	3.0 J	1.6 J	2.0 J	2.8 J	2.2 J	4.3 J
Zinc	109	2200	7.4	4.5 U	3.3 U	5.7	3.6 U	4.8	5.8
Other (%)									
Moisture, percent	NE	NE	9.5	17.9	17.9	15.3	12.8	15.7	17.2

Appendix F
Soil Analytical Results
Monitoring Well Cluster Locations
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Notes:

mg/kg - milligrams/kilogram or parts per million (ppm)

BTEX - benzene, toluene, ethylbenzene, and xylenes

VOCs - volatile organic compounds

PAHs - polycyclic aromatic hydrocarbons

SVOCs - semivolatile organic compounds

6 NYCRR -New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

6 NYCRR 375 SCO UNRESTRICTED USE - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Unrestricted Use Soil Cleanup Objectives

6 NYCRR 375 SCO RESTRICTED USE RES - regulatory comparison against NYCRR, Chapter IV, Part 375-6 Restricted Use Residential Soil Cleanup Objectives

NE - not established

NA - not analyzed

Bolding indicates a detected concentration

Yellow shading and bolding indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED and 6 NYCRR SCO RES

Gray shading and bolding indicates that the detected result value exceeds established 6 NYCRR SCO UNRESTRICTED

Validation Qualifiers:

J - estimated value

U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

R - rejected

Appendix G

Monitoring Well Boring Logs



Tar Staining Sheen and Tar / Naphtha Odors

VISUAL IMPACT COLORS KEY OU-2 GINT DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

Bay Shore Former MGP Site	 GEI Consultants	Visual Impact Key
National Grid		



GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT NAME: Bay Shore Former MGP Site
CITY/STATE: Bay Shore, New York
GEI PROJECT NUMBER: 093180

BORING LOG
PAGE 1 of 3
OU2MW-17S.I.I2.D

GROUND SURFACE ELEVATION (FT): 19.71 LOCATION: OU-1 Union Blvd/33 N Clinton Systems
NORTHING: 203296.23 EASTING: 1190700.09 TOTAL DEPTH (FT): 70.00
DRILLED BY: Zebra/Fenley and Nicol / Luke Reiss/Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Chris Scharkopf DATE START / END: 3/25/2008 - 4/16/2008
DRILLING DETAILS: Geoprobe/Hollow Stem Auger
WATER LEVEL DEPTHS (FT): ∇ 6.60

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0				0					0 - 1.2 SANDY SILT WITH GRAVEL (ML); ~70% fines, ~15% gravel, fine to coarse, ~15% sand, fine to coarse; moist, dark brown, FILL, organic topsoil, loose, HAND CLEARED. 1.2 - 3 LEAN CLAY WITH GRAVEL (CL); fine to coarse, ~85% fines, medium plasticity, medium toughness, ~15% gravel, fine to coarse; moist, dark brown and dark gray, FILL, loose, HAND CLEARED. 3 - 5 SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine to coarse; moist to wet, light brown and tan, loose, HAND CLEARED. 5 - 6.6 SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; moist, light brown and tan, loose. 6.6 - 7.5 SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to coarse, ~30% fines, ~15% gravel, fine; slight organic-like odor, wet, brownish orange and tan, moderately dense. 7.5 - 10 SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, fine, ~15% fines; slight organic-like odor, wet, light gray and tan, loose, slight gray staining. 10 - 15 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% sand, fine to coarse, ~25% gravel, fine, ~10% fines; wet, light brown and tan, loose. 15 - 20 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; wet, gray and tan, loose, slight gray staining throughout. 20 - 25 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; wet, light brown and tan, loose.	
5	S-1	5.0	32				OU2MW-17 (6-10)			
10	S-2	5.0	42	0						
15	S-3	5.0	33				OU2MW-17 (15-20)			
20	S-4	5.0	34	0						

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT NAME: Bay Shore Former MGP Site
CITY/STATE: Bay Shore, New York
GEI PROJECT NUMBER: 093180

BORING LOG
PAGE 2 of 3
OU2MW-17S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25	S-5	5.0	31	0			NLO		25 - 30 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light gray and tan, loose, slight light gray staining throughout.	
30	S-6	5.0	32	0				30 - 35 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; wet, light brown and tan, loose.		
35	S-7	5.0	32				OU2MW-17 (35-40)	35 - 40 SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine; wet, light brown and tan, moderately dense.		
40	S-8	5.0	36	0				40 - 42.1 SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine; wet, light brown and tan, moderately dense. 42.1 - 45 SILTY SAND (SM); ~80% sand, fine to coarse, ~15% fines, ~5% gravel, fine; wet, light brown, moderately dense.		
45	S-9	5.0	32	0				45 - 50 SILTY SAND WITH GRAVEL (SM); ~80% sand, fine to coarse, ~15% gravel, fine, ~5% fines; wet, light brown, moderately dense.		
50	S-10	5.0	37	0				50 - 55 SILTY SAND (SM); ~80% sand, fine to coarse, ~15% fines, ~5% gravel, fine; wet, light brown, moderately dense.		

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
 ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET
 NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR
 CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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GEI PROJECT NUMBER: 093180

BORING LOG
PAGE 3 of 3
OU2MW-17S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
55	S-11	5.0	40	0	[Dotted pattern]			OU2MW-17 (60-65)	55 - 60 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; wet, light brown and tan, moderately dense.	[Well construction diagram: top section with diagonal hatching]
60	S-12	5.0	38						60 - 61.3 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; wet, light brown and tan, moderately dense. 61.3 - 65 SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; wet, light brown and gray, moderately dense.	[Well construction diagram: middle section with dotted pattern]
65	S-13	5.0	33	0					65 - 70 SILTY SAND (SM); ~75% sand, fine to coarse, ~25% fines; wet, light brown and gray, moderately dense.	[Well construction diagram: bottom section with dotted pattern]
70	Bottom of borehole at 70.0 feet. Ground surface elevation is approximate									[Well construction diagram: bottom section with dotted pattern]

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
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BORING LOG
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OU2MW-18I.2.D

GROUND SURFACE ELEVATION (FT): 19.97 LOCATION: OU-1 Union Blvd/33 N Clinton Systems
NORTHING: 203208.05 EASTING: 1190618.47 TOTAL DEPTH (FT): 70.00
DRILLED BY: Zebra/Fenley and Nicol / Luke Reiss/Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Chris Scharkopf DATE START / END: 3/26/2008 - 4/11/2008
DRILLING DETAILS: Geoprobe/Hollow Stem Auger
WATER LEVEL DEPTHS (FT): ∇ 8.60

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0				0					0 - 1.2 SILTY SAND (SM); ~60% fines, ~25% sand, fine to coarse, ~15% gravel, fine to coarse; moist, dark brown, loose, roots, HAND CLEARED. 1.2 - 3.2 SILTY SAND (SM); ~50% sand, fine to coarse, ~40% fines, ~10% gravel, fine to coarse; moist, brown, loose, HAND CLEARED. 3.2 - 5 SILTY SAND (SM); ~65% sand, fine to coarse, ~25% fines, ~10% gravel, fine to coarse; moist, brown to light brown, loose, HAND CLEARED. 5 - 8.6 SILTY SAND (SM); ~65% sand, fine to coarse, ~25% fines, ~10% gravel, fine to coarse; moist, brown to light brown, loose.	
5	S-1	5.0	38	0				OU2MW-18 (15-20)	8.6 - 10 SILTY SAND WITH GRAVEL (SM); ~70% sand, fine to coarse, ~15% gravel, fine, ~15% fines; wet, brown and gray, moderately dense. 10 - 13.4 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; wet, tan and light brown, loose.	
10	S-2	5.0	34						13.4 - 15 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, tan and light brown, loose, slight light gray staining throughout. 15 - 20 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light gray, loose, light gray staining throughout.	
15	S-3	5.0	25			NLO			20 - 25 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light gray and tan, loose, slight light gray staining throughout.	
20	S-4	5.0	30	0		NLO				

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 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
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OU2MW-21S.I.I2

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25	S-5	5.0	33	0.7	[Pattern]	[Green]	NLO	OU2MW-21 (40-45)	25 - 30 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light gray and tan, loose, slight light gray staining throughout.	[Pattern]
							NLO			
30	S-6	5.0	34	0	[Pattern]		NLO	30 - 35 WIDELY GRADED SAND WITH SILT (SW-SM); ~80% sand, fine to coarse, ~10% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, tan, loose.	[Pattern]	
35	S-7	5.0	34	0	[Pattern]		NLO	35 - 40 SILTY SAND WITH GRAVEL (SM); ~75% sand, fine to coarse, ~15% gravel, fine, ~15% fines; slight naphthalene-like odor, wet, light brown and tan, loose.	[Pattern]	
40	S-8	5.0	28		[Pattern]		NLO	40 - 45 SILTY SAND (SM); ~75% sand, fine to coarse, ~15% fines, ~10% gravel, fine; slight naphthalene-like odor, wet, light brown and tan, loose.	[Pattern]	
45	Bottom of borehole at 45.0 feet. Ground surface elevation is approximate									

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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BORING LOG
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OU2MW-23S.I.12.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25		5.0	28	2.2 (background)	NLO	OU2MW-23 (25-30)	25 - 30 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; moderate naphthalene-like odor, wet, light brown, little coarse sand. Odor decreasing with depth from moderate at top to slight at bottom.		
				1.1					
30		5.0		1.4	NLO		30 - 35 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown, little coarse sand, loose.		
				1.5					
35		5.0		1.1 (background)			35 - 40 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown, little coarse sand, loose.		
				0.0					
40		5.0	28	0.0			40 - 45 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown to brown, little coarse sand, loose.		
				0.0					
45		5.0	24	0.0		OU2MW-23 (45-50)	45 - 49 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, brown, little coarse sand, loose.		
				0.0					
50		5.0	24	0.0			49 - 49.6 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, reddish brown. 49.6 - 50 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, brown, little coarse sand, loose.		
				0.0					

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BORING LOG
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OU2MW-23S.I.12.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55					[Dotted pattern]		OU2MW-23 (63-68)	50 - 53.8 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, brown, little coarse sand, loose. 53.8 - 55 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, fine gravel, ~10% fines; wet, brown, little coarse sand. 55 - 60 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, brown, little coarse sand, loose.	[Hatched pattern]
		5.0		0.0					
60					[Dotted pattern]		OU2MW-23 (63-68)	60 - 65 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine, ~5% fines; wet, brown / reddish brown.	[Hatched pattern]
		5.0	24	0.0					
65					[Dotted pattern]		OU2MW-23 (63-68)	65 - 66.4 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, fine, ~10% fines; wet, reddish brown. 66.4 - 68.6 SILTY SAND (SM); ~50% silty sand, ~30% low plasticity clay, ~20% fine gravel, dry, gray / brown.	[Hatched pattern]
		6.5	18	0.0					
70					[Dotted pattern]		OU2MW-23 (63-68)	68.6 - 70.1 SILTY CLAY WITH SAND (CL-ML); ~70% silty and clayey fines, ~15% fine to medium sand, ~15% fine gravel, dry, gray, hard. 70.1 - 71.5 SANDY LEAN CLAY (CL); ~60% fines, medium plasticity, ~40% sand, fine to medium; wet, gray, soft.	[Hatched pattern]

Bottom of borehole at 71.5 feet.
Multiple PID values recorded within a single sample interval represent screening measurements.

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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- | | | | |
|--|-------------------------|-----------------------------|---------------------------|
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BORING LOG

OU2MW-24S.I.12.D

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25				13.8		NLO	OU2MW-24 (25-30)	light brown, little coarse sand. 25 - 30 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; moderate naphthalene-like odor, wet, light brown, little coarse sand. Odor decreasing slightly with depth.	
		5.0	28	5.1					
				4.5		NLO			
				6.1					
30		5.0		0.0		NLO	30 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown, loose.		
35		5.0	25	0.0		NLO	35 - 40 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown, loose.		
40		5.0		0.0			40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown, loose.		
45		5.0	21	0.0			OU2MW-24 (45-50)	45 - 48.6 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; light brown, little coarse sand.	
50								48.6 - 49 SILTY SAND (SM); ~70% silty sand, ~20% clayey fines, ~10% fine gravel, brown. 49 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; light brown, little coarse sand. 50 - 54.3 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20%	
		5.0	29	0.0					

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BORING LOG
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OU2MW-24S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55		5.0	27	0.0				gravel, fine; light brown, little coarse sand. 54.3 - 55 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; wet, brown. 55 - 60 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown / brown.	
60		5.0	26	0.0			60 - 65 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown / brown, color grades to reddish brown in bottom 4 in.		
65		3.5	29	0.0		OU2MW-24 (65-68)	65 - 67.1 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine, ~5% fines; reddish brown. 67.1 - 67.3 SILTY SAND (SM); ~70% silty sand, ~30% fine to medium sand, wet, brown / gray. 67.3 - 68.3 SILTY SAND (SM); ~85% sand, fine to medium, ~15% fines; wet, brown / gray, trace coarse sand. 68.3 - 68.5 SILTY CLAY (CL-ML); ~70% silty clay, ~30% fine to medium sand, dry, gray. Refusal at 68.5 feet. Bottom of borehole at 68.5 feet. Multiple PID values recorded within a single sample interval represent screening measurements. Refusal likely due to clay layer.		

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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BORING LOG
 PAGE 1 of 3
 OU2MW-25S.I.I2.D

GROUND SURFACE ELEVATION (FT): 18.7 LOCATION: 33 N. Clinton System
 NORTHING: 202870.06 EASTING: 1191017.23 TOTAL DEPTH (FT): 77.00
 DRILLED BY: Zebra Environmental DATUM VERT. / HORIZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: Chris Morris DATE START / END: 10/27/2008 - 10/27/2008
 DRILLING DETAILS:
 WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0		5.0							
					SLO		0 - 2 NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~70% sand, fine to medium, ~20% gravel, fine to coarse, subrounded, ~10% fines; brown.		
							2 - 2.5 SILTY SAND (SM); ~70% sand, fine to medium, ~20% fines, ~10% gravel, fine; slight sulfur-like odor, brown / gray.		
5		5.0	48	0.0		OU2MW-25 (10-15)	2.5 - 3.2 SILTY SAND WITH GRAVEL (SM); ~50% sand, fine to medium, ~30% fines, ~20% gravel, fine; brown.		
				0.0			3.2 - 5 NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~75% sand, fine, ~15% gravel, fine, ~10% fines; brown / tan.		
				0.0			5 - 9.2 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; light brown / tan.		
10		5.0	32	0.0			9.2 - 10 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown.		
				0.0			10 - 15 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; light brown.		
15		5.0	17	0.0			15 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine, ~5% fines; wet, light brown, loose.		
20		5.0	14	0.8		NLO	20 - 25 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; slight naphthalene-like odor, wet, light brown / tan, loose.		

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BORING LOG
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OU2MW-25S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25		5.0	23	0.6	[Dotted Pattern]	NLO	OU2MW-25 (25-30) 25 - 30 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown.	[Well Construction Diagram]	
			0.4	NLO					
			1.2						
			0.8						
30		5.0	27	0.3	[Dotted Pattern]	NLO	30 - 30.5 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; slight naphthalene-like odor, wet, light brown. 30.5 - 35 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown.	[Well Construction Diagram]	
			0.0						
			0.0						
			0.0						
35		5.0	37	0.0	[Dotted Pattern]		35 - 40 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown, little coarse sand.	[Well Construction Diagram]	
40		5.0		0.0	[Dotted Pattern]		40 - 45 NARROWLY GRADED SAND WITH GRAVEL (SP); ~85% sand, fine to medium, ~15% gravel, fine; wet, brown / reddish brown, loose.	[Well Construction Diagram]	
45		5.0		0.0	[Dotted Pattern]		OU2MW-25 (45-50) 45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~85% sand, fine to medium, ~15% gravel, fine; wet, brown / reddish brown, loose.	[Well Construction Diagram]	
50		5.0		0.0	[Dotted Pattern]		50 - 55 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel, fine; wet, brown / light brown, loose, little coarse sand.	[Well Construction Diagram]	

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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OU2MW-25S.I.12.D
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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55		5.0	23	0.0					
60		5.0	21	0.0					
65		5.0	23	0.0					
70		5.0	25	0.0		OU2MW-25 (70-75)			
75		2.0	0	NA					

55 - 60 SILTY SAND (SM); ~85% sand, fine to medium, ~15% fines; wet, light brown.

60 - 61 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; brown / reddish brown.
61 - 65 SILTY SAND (SM); ~85% sand, fine to medium, ~15% fines; wet, light brown.

65 - 67.8 SILTY SAND (SM); ~80% sand, fine to medium, ~15% fines, ~5% gravel; brown / reddish brown.

67.8 - 70 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, ~10% fines; wet, light brown.

70 - 71.6 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine; wet, dark brown.
71.6 - 72.2 SILTY CLAY (CL-ML); ~50% fines, ~40% gravel, fine, ~10% sand; brown / gray.
72.2 - 74 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine, ~5% fines; wet, light brown.
74 - 74.4 SILTY CLAY (CL-ML); ~50% fines, ~40% gravel, fine, ~10% sand; brown / gray.
74.4 - 75 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine, ~5% fines; wet, light brown.
75 - 77 NO RECOVERY, fine to coarse sand and gravel in shoe.
Refusal at 77.0 feet.
Bottom of borehole at 77.0 feet.
Multiple PID values recorded within a single sample interval represent screening measurements.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO = CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PL = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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455 Winding Brook Road
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CLIENT: National Grid
PROJECT NAME: Bay Shore Former MGP Site
CITY/STATE: Bay Shore, New York
GEI PROJECT NUMBER: 093180

BORING LOG
PAGE 2 of 3
OU2MW-26S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25	S-5	5.0	36	0			NLO	OU2MW-26 (40-45)	25 - 30 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, ~20% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, gray, loose, slight gray staining throughout.	
							NLO			
30	S-6	5.0	32	0			NLO		30 - 35 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; slight naphthalene-like odor, wet, light gray tan, loose, slight gray staining throughout.	
35	S-7	5.0	32	0			NLO		35 - 40 SILTY SAND (SM); ~65% sand, fine to coarse, ~30% fines, ~5% gravel, fine; slight naphthalene-like odor, wet, light brown and tan, moderately dense.	
40	S-8	5.0	24				NLO		40 - 45 SILTY SAND (SM); ~65% sand, fine to coarse, ~30% fines, ~5% gravel, fine; slight naphthalene-like odor, wet, light brown and tan, moderately dense.	
45	S-9	5.0	38	0			NLO		45 - 50 SILTY SAND (SM); ~70% sand, fine to coarse, ~20% fines, ~10% gravel, fine; slight naphthalene-like odor, wet, light brown and tan, moderately dense.	
50	S-10	5.0	39	0			NLO		50 - 55 SILTY SAND (SM); ~80% sand, fine to coarse, ~20% fines; slight naphthalene-like odor, wet, light brown and tan, moderately dense.	

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
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BORING LOG

PAGE 3 of 3

OU2MW-26S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
55	S-11	5.0	37	0			NLO	55 - 60 SILTY SAND (SM); ~70% sand, fine to coarse, ~30% fines; slight naphthalene-like odor, wet, light brown and tan, moderately dense.		
							NLO			
60	S-12	5.0	29				OU2MW-26 (60-65)	60 - 65 SILTY SAND (SM); ~65% sand, fine to coarse, ~35% fines; slight naphthalene-like odor, wet, light brown, dense.		
65	S-13	5.0	24	0				65 - 70 SILTY SAND (SM); ~60% sand, fine to coarse, ~30% fines, ~10% gravel, fine; slight naphthalene-like odor, wet, light brown.		
70	Bottom of borehole at 70.0 feet. Ground surface elevation is approximate									

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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 REC = RECOVERY LENGTH OF SAMPLE
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ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

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 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
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 OLO = ORGANIC LIKE ODOR
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BORING LOG	
PAGE 1 of 3	OU2MW-27S.I.12.D

GROUND SURFACE ELEVATION (FT): 17.38 LOCATION: 34 N. Clinton System
 NORTHING: 202485.84 EASTING: 1190792.95 TOTAL DEPTH (FT): 65.00
 DRILLED BY: Fenley & Nicol Environmental, Inc. DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: Jeff Parillo DATE START / END: 6/29/2009 - 6/29/2009
 DRILLING DETAILS: _____
 WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0		5.0							0 - 5 PRECLEARED.	
5	S-1	5.0	32	0			OU2MW-27 (8-10)	5 - 8.25 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; tan brown, wet at 7'. Stained lenses at 21 in.		
			0					8.25 - 8.5		
			0				8.5 - 10			
10	S-2	5.0	52	0				OU2MW-27 (22-24)	10 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; wet, loose. Rust staining in top 21 in.	
			0							
			0							
			0							
15	S-3	5.0	55	0.1			OU2MW-27 (22-24)	15 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~65% sand, fine to coarse, ~30% gravel, fine to coarse, ~5% fines; moderate petroleum-like odor, wet, brownish gray, loose.		
			0.2							
			0.2							
			0.1							
20	S-4	5.0	40	4.4			OU2MW-27 (22-24)	20 - 25 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; moderate naphthalene-like odor, grayish brown.		
			3.5							
			1.9							

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR



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BORING LOG
PAGE 2 of 3
OU2MW-27S.I.I2.D

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25	S-5	5.0	50	3.1			NLO	OU2MW-27 (47-49)	25 - 30 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; moderate naphthalene-like odor, grayish brown.	
				0.4						
				0.7						
				1.3						
30	S-6	5.0	54	2.1			NLO	30 - 35 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; slight naphthalene-like odor, light brown.		
				4.4						
				4.2						
				3.8						
35	S-7	5.0	55	2.0			NLO	35 - 40 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine to coarse, ~5% fines; slight naphthalene-like odor, tan.		
				4.1						
				5.3						
				5.3						
40	S-8	5.0	56	4.1			NLO	40 - 45 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine to coarse, ~5% fines; slight naphthalene-like odor, tan.		
				0.6						
				0.4						
				0.6						
45	S-9	5.0	56	0.4			NLO	45 - 50 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~5% gravel, fine to coarse, ~5% fines; slight naphthalene-like odor, brown.		
				2.6						
				1.6						
				2.1						
50	S-10	5.0	56	2.8			NLO	50 - 55 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, ~5% fines; slight naphthalene-like odor.		
				1.1						
				2.1						

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BORING LOG
PAGE 3 of 3
OU2MW-27S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
55	S-11	5.0	56	1.4	[Dotted pattern]	[Blank]	NLO	OU2MW-27 (62-64)	55 - 60 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, ~5% fines; slight naphthalene-like odor.	[Hatched pattern]
				1.7						
				0.9						
				1.1						
60	S-12	5.0	56	0.3	[Dotted pattern]	[Blank]	NLO	60 - 65 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, brown.	[Dotted pattern]	
				0.4						
				0.6						
				0.7						
				0.7						
65				0.5						

Bottom of borehole at 65.0 feet.
Multiple PID values recorded within a single sample interval represent screening measurements.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO = CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
PAGE 1 of 2
OU2MW-28S.I.I2

GROUND SURFACE ELEVATION (FT): 16.25 LOCATION: 9 N. Clinton System
NORTHING: 202056.56 EASTING: 1190835.61 TOTAL DEPTH (FT): 45.00
DRILLED BY: Fenley & Nicol Env. / Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Mitch Weier DATE START / END: 7/15/2008 - 7/15/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0								0 - 0.8 ASPHALT; HAND CLEARED. 0.8 - 1 CLAYEY GRAVEL WITH SAND (GC); ~50% gravel; ~30% fine to coarse sand, 20% fines, max. size 2 in., reddish brown, HAND CLEARED. 1 - 5 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse; ~15% fine to coarse rounded gravel, max. size 2 in., slight organic-like odor, moist, tan, HAND CLEARED.	
5	S-1	5.0	46	0			5 - 6.5 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse rounded gravel, max. size 0.75 in., dry, tan. 6.5 - 10 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; dry, tan, Coarser zone from 2.9 ft to 3.2 ft (15% gravel).		
10	S-2	5.0	44	0		OU2SB-28 (6.5-7)	10 - 10.8 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse gravel, max. size 2 in., tan, Striated bands. 2" black band at 10.5'. 10.8 - 15 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; wet, tan.		
15	S-3	5.0	37	0			15 - 16 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; trace gravel, max. size 0.3 in., wet, tan to orangeish tan. 16 - 17 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; trace gravel, max. size 0.3 in., slight naphthalene-like odor, wet, orange. 17 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse rounded gravel, max. size 1 in., slight naphthalene-like odor, wet, gray.		
20	S-4	5.0	32	0			20 - 21 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse rounded gravel, max. size 1 in., moderate naphthalene-like odor, wet, gray. 21 - 22 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, gray. 22 - 25 WIDELY GRADED SAND (SW); ~100%		
					NLO				
					NLO				
					NLO				

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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
PAGE 1 of 2
OU2MW-29I.I2.D

GROUND SURFACE ELEVATION (FT): 16.57 LOCATION: 9 N. Clinton System
NORTHING: 202106.46 EASTING: 1190890.54 TOTAL DEPTH (FT): 50.00
DRILLED BY: Fenley & Nicol Env. / Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Mitch Weier DATE START / END: 7/17/2008 - 7/17/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0								0 - 1.5 ASPHALT; HAND CLEARED. 1.5 - 2 CLAYEY GRAVEL (GC); ~60% gravel, rounded; ~20% clayey fines, ~20% fine to coarse sand, max. size 2 in., moist, dark brown, HAND CLEARED. 2 - 5 NARROWLY GRADED SAND (SP); ~100% sand, medium; dry, light tan, HAND CLEARED.	
5	S-1	5.0	52	0				5 - 7 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium; ~5% fine to coarse subangular gravel, max. size 1.5 in., moist, light tan. 7 - 10 NARROWLY GRADED SAND (SP); ~95% sand, fine to coarse; ~5% fine to coarse subrounded gravel, max. size 0.75 in., wet, light brown, bands of coarse sand at 24-26" and 39-40". Band of orange coarse med sand at 50-52".	
10	S-2	5.0	52	0				10 - 10.8 WIDELY GRADED SAND (SW-SM); ~90% sand, fine to coarse; ~10% silt, wet, orange. 10.8 - 12.3 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, light brown, orangeish band at 16". 12.3 - 15 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; trace subangular gravel, max. size 1 in., wet, light brown, coarse band of sand and gravel at 35-36" and 46-50".	
15	S-3	5.0	58	0				15 - 16.8 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, light brown. 16.8 - 18.5 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; trace subrounded gravel, max. size 1 in., wet, light brown, faint naphthalene like odor. 18.5 - 20 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; wet, light brown and grayish brown, faint naphthalene like odor.	
20	S-4	5.0	58	0			OU2SB-29 (20.5-21.5)	20 - 25 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; trace coarse sand, trace rounded fine gravel, max. size 0.5 in., wet, light brown to brown, faint naphthalene odor throughout. Zones of coarse sand at 39-42". Dark reddish sand band at 52-53".	

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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



CLIENT: National Grid
PROJECT NAME: Bay Shore Former MGP Site
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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-5	5.0	52	0	•••••	NLO	OU2SB-29 (31-32)	25 - 30 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; trace coarse sand, trace rounded fine gravel, max. size 1 in., slight naphthalene-like odor, wet, light brown to dark brown, orange 1/8" stratified layer at 47". Lens of silty sand at 51.5 to 52".	
30	S-6	5.0	55	0	•••••	NLO	OU2SB-29 (31-32)	30 - 32 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, light brown.	
35	S-7	5.0	56	0	•••••	NLO	OU2SB-29 (31-32)	32 - 35 WIDELY GRADED SAND (SP); ~100% sand, fine to coarse; trace subangular and subrounded gravel, max. size 1 in., slight naphthalene-like odor, wet, light brown, multiple stratified layers of brown-red fine sand between 43-50".	
40	S-8	5.0	0		•••••	NLO	OU2SB-29 (31-32)	35 - 37 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, light brown.	
45	S-9	5.0	54	0	•••••	NLO	OU2SB-29 (47-47.5)	37 - 38.5 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% subrounded fine gravel, max. size 1 in., slight naphthalene-like odor, wet, light brown. 38.5 - 40 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, light brown, multiple brown-red stratified layers of fine sand. 40 - 45 No sample. Sample sleeve was crushed while drilling.	
50								Bottom of borehole at 50.0 feet.	

- NOTES:**
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CLIENT: **National Grid**
PROJECT NAME: **Bay Shore Former MGP Site**
CITY/STATE: **Bay Shore, New York**
GEI PROJECT NUMBER: **093180**

BORING LOG
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OU2MW-30S.I.I2.I3.D.D2

GROUND SURFACE ELEVATION (FT): **17.62** LOCATION: **9 N. Clinton System**
NORTHING: **202174.14** EASTING: **1190968.14** TOTAL DEPTH (FT): **70.00**
DRILLED BY: **Fenley & Nicol Env. / Mike Mede** DATUM VERT. / HORZ.: **NAVD 88 / NAD83 NY Long Island Zone**
LOGGED BY: **Mitch Weier** DATE START / END: **7/16/2008 - 7/16/2008**
DRILLING DETAILS: **Geoprobe**
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0								0 - 0.8 ASPHALT; HAND CLEARED. 0.8 - 1 WIDELY GRADED GRAVEL (GC); HAND CLEARED. 1 - 5 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse; ~15% fine to coarse rounded gravel, max. size 2 in., slight organic-like odor, moist, tan, HAND CLEARED.	
5	S-1	5.0	42	0			OU2SB-30 (6.5-7.5)	5 - 6.5 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse rounded gravel, max. size 1.5 in.. 6.5 - 8 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse rounded gravel, max. size 1.5 in., wet. 8 - 10 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, tan.	
10	S-2	5.0	42	0				10 - 11.3 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse subrounded gravel, max. size 1.5 in., wet, light brown, stratified. 11.3 - 12.5 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, light brown, stratified. 12.5 - 15 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse subrounded gravel, max. size 0.75 in., wet, light brown, stratified. 2" band of laminated red and black sand at 35". 15 - 16 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse subrounded gravel, max. size 0.75 in., wet, light brown, stratified.	
15	S-3	5.0	35	0				16 - 20 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse subrounded gravel, max. size 0.75 in., slight naphthalene-like odor, wet, light brown, mostly medium and coarse sand. 20 - 25 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; trace fine gravel, moderate naphthalene-like odor, light brown, dark gray staining at 14-18". Black stained 1/4" nodules at 21".	
20	S-4	5.0	42	0			OU2SB-30 (21-22)		

NOTES:
PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR HEADSPACE) CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
ALO = ASPHALT LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG

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OU2MW-30S.I.12.I3.D.D2

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-5	5.0	42	0	[Pattern]	NLO	OU2SB-30 (29-30)	25 - 30 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium; ~5% fine to coarse subangular gravel, max. size 1.5 in., moderate naphthalene-like odor, wet, light brown, bands of coarse sand and gravel at 4-8", 13-14", 25-27". Stratified.	[Well Diagram]
						NLO			
30	S-6	5.0	42	0	[Pattern]	NLO	30 - 35 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium; ~5% fine to coarse gravel, max. size 1.5 in., moderate naphthalene-like odor, wet, light brown, laminated black and orange sand layers at 34-35" and 34-36". Stratified.	[Well Diagram]	
						NLO			
35	S-7	5.0	25	0	[Pattern]	NLO	35 - 40 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium; ~5% fine to coarse gravel, max. size 1.5 in., moderate naphthalene-like odor, wet, light brown.	[Well Diagram]	
						NLO			
40	S-8	5.0	58	0	[Pattern]	NLO	40 - 45 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; trace fine to coarse gravel, max. size 1.5 in., moderate naphthalene-like odor, wet, light brown.	[Well Diagram]	
						NLO			
45	S-9	5.0	58	0	[Pattern]	NLO	OU2SB-30 (47.5-48.5)	45 - 50 NARROWLY GRADED SAND (SP); ~100% sand, fine to coarse; trace fine to coarse gravel, max. size 1.5 in., slight naphthalene-like odor, wet, light brown.	[Well Diagram]
						NLO			
50	S-10	5.0	58	0	[Pattern]	NLO	50 - 55 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, 1/4" band of dark fine sand at 42". Naphthalene like odor fainter below	[Well Diagram]	
						NLO			

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ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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CrLO = CREOSOTE LIKE ODOR
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BORING LOG
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OU2MW-30S.I.I2.I3.D.D2

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55	S-11	5.0	58	0	[Dotted pattern]	NLO	42". 55 - 60 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, stratified.	[Well diagram showing casing and screen]	
60	S-12	5.0	58	0		NLO	60 - 65 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; trace mica, slight naphthalene-like odor, wet, light brown, 1/8" band of dark fine sand at 49".		
65	S-13	5.0	48	0	[Dotted pattern]	OU2SB-30 (67-68)	65 - 68 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; light brown.	[Well diagram showing casing and screen]	
70							NLO		68 - 68.5 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; reddish orange, mottling present. 68.5 - 70 LEAN CLAY (CL); ~95% fines, medium plasticity; ~5% fine sand, moist, gray, hard nodules present. Bands of fine to medium sand at 42-43", 45-45.5", 47-48". Bottom of borehole at 70.0 feet.

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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BORING LOG

OU2MW-31I.2

GROUND SURFACE ELEVATION (FT): 17.25 LOCATION: 9 N. Clinton System
 NORTHING: 202263.05 EASTING: 1191053.08 TOTAL DEPTH (FT): 35.00
 DRILLED BY: Fenley & Nicol Env. / Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: Mitch Weier DATE START / END: 7/15/2008 - 7/15/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0								0 - 1.5 ASPHALT; HAND CLEARED.	
5	S-1	5.0	48	0				1.5 - 2 CLAYEY GRAVEL (GC); ~60% gravel, rounded; ~20% clayey fines, ~20% fine to coarse sand, max. size 2 in., moist, dark brown, HAND CLEARED. 2 - 5 NARROWLY GRADED SAND (SP); ~100% sand, medium; dry, light tan, HAND CLEARED. 5 - 6.5 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% gravel, max. size 2 in., moist, light brown. 6.5 - 8 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% gravel, max. size 2 in., wet, light brown. 8 - 10 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, light brown, stratified.	
10	S-2	5.0	40	0		NLO		10 - 15 NARROWLY GRADED SAND (SP); ~100% sand, fine to coarse; trace gravel, max. size 1 in., slight naphthalene-like odor, moist, light brown with orange, lens of med to coarse sand at 6-8", 8-12", and 36-40", coarse sand and gravel at 20-24".	
15	S-3	5.0	36	0		NLO		15 - 20 WIDELY GRADED SAND (SW); ~95% sand, medium to coarse; ~5% gravel, trace fine sand, max. size 2 in., moderate naphthalene-like odor, tan, coarse lenses at 3-5", 6-8", 18-20", 26-30".	
20	S-4	5.0	42	0		NLO	OU2SB-31 (24.5-25)	20 - 21 WIDELY GRADED SAND (SW); ~95% sand, medium to coarse; ~5% gravel, trace fine sand, max. size 2 in., moderate naphthalene-like odor, tan, stratified. 21 - 23.3 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; moderate naphthalene-like odor, wet, gray. 23.3 - 25 WIDELY GRADED SAND (SW); ~95%	
						NLO			
						NLO			
						NLO			

NOTES:

- | | | | |
|--|-------------------------|-----------------------------|---------------------------|
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BORING LOG
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OU2MW-31I.12

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-5	5.0	35	0	[Pattern]	NLO	OU2SB-31 (25-26)	sand, medium to coarse; ~5% gravel, trace fine sand, max. size 2 in., moderate naphthalene-like odor, tan, 1/4" sphere of sand coated with black material. Black material has no odor. 25 - 30 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; moderate naphthalene-like odor, light brown to tan, coarse lenses at 30-35" with trace coarse gravel. Slight to moderate naphthalene odor throughout.	[Well Diagram]
						NLO			
30	S-6	5.0	31	0	[Pattern]	NLO	OU2SB-31 (30-32)	30 - 31 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight naphthalene-like odor, wet, light brown. 31 - 31.8 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, tan, band of laminated red and black sand at 18-20". 31.8 - 35 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; slight naphthalene-like odor, wet, light brown.	[Well Diagram]
						NLO			
						NLO			
35									

Bottom of borehole at 35.0 feet.

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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BORING LOG
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OU2MW-32S.I.I2.D

GROUND SURFACE ELEVATION (FT): 16.23 LOCATION: 9 N. Clinton System
NORTHING: 202356.48 EASTING: 1191084.77 TOTAL DEPTH (FT): 35.00
DRILLED BY: Fenley & Nicol Env. / Mike Mede DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Mitch Weier DATE START / END: 7/18/2008 - 7/18/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0								0 - 3 SILTY SAND (SM); HAND CLEARED.	
5	S-1	5.0	50	0		OU2SB-32 (7-7.5)	3 - 5 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium; ~5% fine to coarse rounded gravel, max. size 2 in., moist, tan, HAND CLEARED. 5 - 10 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium; ~5% fine to coarse rounded gravel, max. size 1.5 in., wet, 4" band of orange coarse sand from 30-36".		
10	S-2	5.0	47	0			10 - 15 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse; ~5% fine to coarse subangular gravel, max. size 0.75 in., wet, light brown, coarse bands at 16-17", 32-33". 36-37". Stratified bands at 45-47".		
15	S-3	5.0	19	0			15 - 20 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; wet, tan, from 0-12", mostly medium sand, from 12-19" mostly coarse sand.		
20	S-4	5.0	54	0			20 - 21.3 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; moderate naphthalene-like odor, wet, light gray.		
					NLO		21.3 - 23.5 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse subrounded gravel, max. size 1.5 in., moderate naphthalene-like odor, wet, light gray.		
					NLO		23.5 - 25 NARROWLY GRADED SAND (SP);		

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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
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 OU2MW-32S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-5	5.0	56	0		NLO	OU2SB-32 (25.5-26.5)	~100% sand, fine to medium; moderate naphthalene-like odor, wet, light gray, multiple 1/8" brown/orange stratified layers. 25 - 27.5 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; moderate naphthalene-like odor, wet, light gray.	
						NLO			
30	S-6	5.0	58	0		NLO	OU2SB-32 (32-33)	27.5 - 30 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse; ~10% fine to coarse subrounded gravel, max. size 1 in., moderate naphthalene-like odor, wet, light gray, multiple brown/orange stratified layers. 30 - 34 NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; slight naphthalene-like odor, wet, tan, sample was disturbed. Extraction from Geoprobe with hammer and vibratory force.	
						NLO			
35						NLO		34 - 35 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium; ~10% fine to coarse subrounded gravel, max. size 1 in., slight naphthalene-like odor, wet, tan, sample was disturbed. Extraction from Geoprobe with hammer and vibratory force.	
								Bottom of borehole at 35.0 feet.	

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
25						
30						
35						
40						
45						
50						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
55						
60						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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BORING LOG

OU2MW-34S.I.12

GROUND SURFACE ELEVATION (FT): 17.92 LOCATION: 33 N. Clinton System
 NORTHING: 202527.56 EASTING: 1191116.37 TOTAL DEPTH (FT): 70.00
 DRILLED BY: Zebra Environmental DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: Chris Morris DATE START / END: 11/7/2008 - 11/7/2008
 DRILLING DETAILS:
 WATER LEVEL DEPTHS (FT):

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0		5.0		0.0					
							0 - 0.3 TOPSOIL. 0.3 - 1.2 SILTY SAND WITH GRAVEL (SM); ~60% silty sand, ~40% fine to coarse gravel, brown. 1.2 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; dry, light brown.		
5		5.0	40	0.0			5 - 7.5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; dry, light brown.		
							7.5 - 9.1 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine; wet, light brown / brown. 9.1 - 10 NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~70% sand, fine to medium, ~20% gravel, fine, ~10% fines; light brown.		
10		5.0	27	0.0		OU2MW-34 (10-15)	10 - 12.8 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, brown / reddish brown. 12.8 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown / brown.		
							15 - 20 NO RECOVERY.		
15		5.0	0	NA					
20		5.0	21	6.1			20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown / gray, little coarse sand. Odor increases to moderate towards bottom of sample.		
				6.1		NLO			
				10.7					

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CrLO = CREOSOTE LIKE ODOR
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 PROJECT NAME: Bay Shore Former MGP Site
 CITY/STATE: Bay Shore, New York
 GEI PROJECT NUMBER: 093180

BORING LOG

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OU2MW-34S.I.12

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25		5.0	27	3.8	[Diagonal Hatching]	NLO	OU2MW-34 (25-30) 25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown / gray, little coarse sand, sample becomes lighter with depth.	[Well Diagram]	
			4.2						
			2.7	NLO					
			0.8						
30		5.0	29	0.5	[Diagonal Hatching]	NLO	30 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown / gray, little coarse sand.	[Well Diagram]	
			0.4						
			0.2						
			0.0						
35		5.0	27	0.0	[Diagonal Hatching]	NLO	35 - 36.1 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~30% gravel, fine; slight naphthalene-like odor, wet, light brown / gray, little coarse sand. 36.1 - 40 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to medium, ~30% gravel, fine; wet, light brown / gray, little coarse sand.	[Well Diagram]	
40		5.0	23	0.0	[Diagonal Hatching]		40 - 45 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand, loose.	[Well Diagram]	
45		5.0	39	0.0	[Diagonal Hatching]		45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand, loose.	[Well Diagram]	
50		5.0	33	0.0	[Diagonal Hatching]		50 - 51.2 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand, loose.	[Well Diagram]	

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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BORING LOG
PAGE 1 of 3
OU2MW-35S.I.I2.D

GROUND SURFACE ELEVATION (FT): **18.42** LOCATION: **33 N. Clinton System**
NORTHING: **202855.66** EASTING: **1190693.26** TOTAL DEPTH (FT): **70.00**
DRILLED BY: **Zebra Environmental** DATUM VERT. / HORIZ.: **NAVD 88 / NAD83 NY Long Island Zone**
LOGGED BY: **Chris Morris** DATE START / END: **11/4/2008 - 11/4/2008**
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT): **▽ 9.00 11/4/2008**

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0		5.0		0.0					0 - 0.2 TOP SOIL. 0.2 - 0.5 SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to medium, ~20% gravel, fine, ~20% fines; brown. 0.5 - 1.5 SILTY SAND WITH GRAVEL (SM); fine to medium, fine; ~70% silty sand, ~20% fine gravel, ~10% fine to medium sand, brown. 1.5 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; light brown. 5 - 10 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; light brown, wet at 9'.	
5		5.0	31	0.0				OU2MW-35 (10-15)	10 - 14.1 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; light brown.	
10		5.0	33	1.2				OU2MW-35 (18-20)	14.1 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; moderate naphthalene-like odor, light brown. 15 - 18 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; strong naphthalene-like odor, light brown. 18 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; strong naphthalene-like odor, light brown, slight gray staining. 20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; strong naphthalene-like odor, light brown, soil lighter than previous. Odor decreasing with depth from strong at top to moderate at bottom.	
15		5.0	25	10.2					NLO	
				13.6					NLO	
				13.6					NLO	
				10.1					NLO	
20		5.0	29	12.6					NLO	
				12.8					NLO	
				18.2					NLO	

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 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/2/10



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BORING LOG

OU2MW-35S.I.12.D

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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25				13.6			NLO	OU2MW-35 (25-30)	25 - 28.4 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; moderate naphthalene-like odor, wet, light brown.	
		5.0	29	10.1			NLO			
				10.4						
30				11.1			NLO	OU2MW-35 (30-35)	28.4 - 28.8 SILTY SAND (SM); ~60% silty sand, ~40% fine to medium sand, moderate naphthalene-like odor, wet. 28.8 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; moderate naphthalene-like odor, wet, light brown. 30 - 32.6 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; moderate naphthalene-like odor, wet, light brown. 32.6 - 33.5 NARROWLY GRADED GRAVEL WITH SAND (GP); ~60% gravel, coarse, ~40% sand, fine to medium; moderate naphthalene-like odor, wet. 33.5 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown. 35 - 40 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~25% gravel, fine; slight naphthalene-like odor, wet, light brown.	
				5.9			NLO			
		5.0	17	3.7			NLO			
				5.1						
35				1.4			NLO	OU2MW-35 (35-40)	40 - 45 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; wet, light brown, little coarse sand.	
		5.0	25	0.5			NLO			
				0.4						
				0.0						
40				0.0				OU2MW-35 (40-45)	45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; wet, light brown, little coarse sand.	
		5.0	24	0.0						
				0.0						
45				0.0				OU2MW-35 (45-50)	50 - 53.8 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand.	
		5.0	18	0.0						
50				0.0				OU2MW-35 (50-55)		
		5.0	25	0.0						

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BORING LOG
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OU2MW-35S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
55		5.0	24	0.0	[Dotted pattern]			53.8 - 55 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown / brown. 55 - 58.5 NARROWLY GRADED SAND (SP); ~90% sand, fine to medium, ~10% gravel, fine; wet, light brown / brown, lens of silty sand from 58.5'- 59'.	[Well diagram showing casing and sampler]	
60		5.0	24	0.0				58.5 - 59 59 - 60 60 - 65 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; wet, light brown.		
65		5.0	28	0.0	[Dotted pattern]		OU2MW-35 (65-70)	65 - 68.8 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; wet, light brown.	[Well diagram showing casing and sampler]	
70										68.8 - 69.3 SILTY SAND (SM); ~60% silty sand, ~30% fine to medium sand, ~10% fine gravel, wet, gray. 69.3 - 70 LEAN CLAY (CL); ~80% fines, medium plasticity, ~15% gravel, coarse, ~5% sand, fine to medium; dry, gray. Bottom of borehole at 70.0 feet.

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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BORING LOG
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OU2MW-36S.I.I2.D

GROUND SURFACE ELEVATION (FT): 18.32 LOCATION: 33 N. Clinton System
NORTHING: 202751.88 EASTING: 1190790.66 TOTAL DEPTH (FT): 70.00
DRILLED BY: Zebra Environmental DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Chris Morris DATE START / END: 10/29/2008 - 10/29/2008
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
0		5.0		0.0				OU2MW-36 (10-15)	0 - 0.3 TOPSOIL. 0.3 - 1 SILTY SAND WITH GRAVEL (SM); ~60% silty sand, ~40% fine gravel, brown. 1 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; dry, light brown.	
5		5.0	54	0.0			5 - 9.6 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; dry to wet, light brown, wet at 9'.			
10		5.0	34	0.0			9.6 - 10 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; wet, light brown. 10 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; wet, light brown.			
15		5.0	20	0.0			15 - 18.3 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; wet, light brown.			
20		5.0	24	1.1			18.3 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, ~20% gravel; slight naphthalene-like odor, wet, light brown, gray stained towards bottom of sample.			
				12.8			NLO	20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown, slight gray staining at the top of the sample.		
				0.4			NLO			
				0.3						

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BORING LOG

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OU2MW-36S.I.I2.D

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
25				0.1	[diagonal lines]		NLO	OU2MW-36 (25-30)	25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown.	[well construction diagram]
		5.0	20	0.3			NLO			
30				0.0	[diagonal lines]				30 - 35 NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP); ~70% sand, fine to medium, ~20% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light brown, little coarse sand, loose.	[well construction diagram]
		5.0		0.0			NLO			
35				0.1	[diagonal lines]				35 - 40 NARROWLY GRADED SAND WITH GRAVEL (SP); ~75% sand, fine to medium, ~20% gravel, fine, ~5% fines; wet, light brown, little coarse sand, loose.	[well construction diagram]
		5.0	23	0.0						
40				0.0	[diagonal lines]				40 - 45 NARROWLY GRADED SAND WITH GRAVEL (SP); ~75% sand, fine to medium, ~20% gravel, fine, ~5% fines; wet, light brown, little coarse sand, loose.	[well construction diagram]
		5.0	31	0.0						
45				0.0	[diagonal lines]			OU2MW-36 (45-50)	45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~75% sand, fine to medium, ~20% gravel, fine, ~5% fines; wet, light brown, little coarse sand, loose.	[well construction diagram]
		5.0	30	0.0						
50				0.0	[diagonal lines]				50 - 55 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; wet, light brown, little coarse sand.	[well construction diagram]
		5.0	30	0.0						

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OU2MW-36S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	VISUAL IMPACTS	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)						
55		5.0		0.0					55 - 60 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; wet, light brown, little coarse sand, loose.	
60		5.0	28	0.0					60 - 61.8 NARROWLY GRADED SAND (SP); ~85% sand, fine to medium, ~10% gravel, fine, ~5% fines; wet, reddish brown, little coarse sand, loose. 61.8 - 65 NARROWLY GRADED SAND (SP); ~85% sand, fine to medium, ~10% gravel, fine, ~5% fines; wet, light brown, little coarse sand, loose.	
65		5.0	33	0.0			OU2MW-36 (65-68)		65 - 67.4 NARROWLY GRADED SAND WITH SILT (SP-SM); ~85% sand, fine to medium, ~10% fines, ~5% gravel, fine; wet, light brown. 67.4 - 69.2 SILTY SAND (SM); ~60% sand, fine to coarse, ~40% fines; wet, light brown / gray, mostly fine sand.	
70									69.2 - 70 LEAN CLAY (CL); ~90% fines, medium plasticity, ~10% gravel, fine; dry, dark gray, mostly clay, some silt. Bottom of borehole at 70.0 feet.	

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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OU2MW-37S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25		5.0	30	0.0	[Dotted pattern]	NLO	OU2MW-37 (25-30)	25 - 25.9 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; slight naphthalene-like odor, wet, dark brown, loose. 25.9 - 29.2 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; wet, light brown, loose.	[Well construction diagram]
30		5.0	0	NA		NLO			
35		5.0	33	0.0	[Dotted pattern]		OU2MW-37 (45-50)	35 - 40 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; wet, light brown, little coarse sand. 40 - 43.8 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown / reddish brown, loose.	[Well construction diagram]
45		5.0	20	0.0					
50		5.0	19	0.0	[Dotted pattern]			50 - 55 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, brown / reddish brown, little coarse sand.	[Well construction diagram]

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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BORING LOG	
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DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55		5.0	23	0.0	[diagrammatic representation of soil strata]	OU2MW-37 (68-73)	55 - 57.2 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand.	[diagrammatic representation of well construction]	
60		5.0		0.0			57.2 - 57.6 SILTY SAND (SM); ~60% silty sand, ~40% fine to medium sand, brown. 57.6 - 60 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand.		
65		5.0	24	NM			60 - 65 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand.		
70		4.5	20	0.0	[diagrammatic representation of soil strata]	OU2MW-37 (68-73)	65 - 67.3 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown, little coarse sand. 67.3 - 67.9 SILTY SAND WITH GRAVEL (SM); ~50% silty sand, ~50% fine to medium sand, brown. 67.9 - 70 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; dry, light brown, little coarse sand, tight. 70 - 73.4 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; light brown, little coarse sand.	[diagrammatic representation of well construction]	
							73.4 - 74.1 SILTY CLAY (CL-ML); ~70% silty clay, ~30% fine to medium sand, ~10% fine gravel, gray. 74.1 - 74.5 NARROWLY GRADED GRAVEL WITH SAND (GP); ~80% gravel, coarse, ~20% sand, fine to medium.		
							Refusal at 74.5 feet. Bottom of borehole at 74.5 feet.		

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO= CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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CLIENT: National Grid
PROJECT NAME: Bay Shore Former MGP Site
CITY/STATE: Bay Shore, New York
GEI PROJECT NUMBER: 093180

BORING LOG
PAGE 1 of 3
OU2MW-38S.I.I2.D

GROUND SURFACE ELEVATION (FT): 20.54 LOCATION: 33 N. Clinton System
NORTHING: 202958.63 EASTING: 1190765.89 TOTAL DEPTH (FT): 75.00
DRILLED BY: Zebra Environmental DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Chris Morris DATE START / END: 11/3/2008 - 11/3/2008
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0		5.0		0.0				0 - 0.3 TOPSOIL. 0.3 - 1 SILTY SAND WITH GRAVEL (SM); ~60% sand, fine to coarse, ~20% gravel, fine to coarse, ~20% fines; dry, brown. 1 - 2.5 SILTY SAND WITH GRAVEL (SM); ~60% silty sand, ~20% fine to coarse sand, ~20% fine gravel, dry, brown. 2.5 - 3 SILTY SAND WITH GRAVEL (SM); ~60% silty sand, ~20% clayey fines, ~20% fine gravel, dry, dark brown. 3 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~25% gravel, fine to coarse, ~5% fines; light brown - brown. 5 - 10 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; dry to wet, light brown.	
5		5.0	43	0.0					
10		5.0	24	0.0		OU2MW-38 (10-15)	10 - 14.6 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; wet, light brown.		
15		5.0	21	0.0			14.6 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown. 15 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine, ~5% fines; moderate naphthalene-like odor, wet, light brown / gray, no odor at top, odor increases with depth.		
20		5.0	20	13.6			20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand, fine to coarse, ~20% gravel, fine, ~5% fines; strong naphthalene-like odor, wet, light brown / gray.		
				0.3					
				6.3	NLO				
				8.8					
				35.2	NLO				
				14.4					

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO = CREOSOTE LIKE ODOR
 REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
 PID = PHOTOIONIZATION DETECTOR READING (JAR FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
 HEADSPACE) ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
PAGE 2 of 3
OU2MW-38S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25		5.0	26	20.1	[Pattern]	NLO	OU2MW-38 (25-30)	25 - 30 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; moderate naphthalene-like odor, wet, light brown, odor decreasing at bottom.	[Diagram]
				19.8		NLO			
				23.1					
				12.0					
30		5.0	24	5.2	[Pattern]		OU2MW-38 (25-30)	30 - 30.8 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine to coarse; wet, light brown. 30.8 - 35 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; moderate naphthalene-like odor, wet, light brown, odor decreasing with depth.	[Diagram]
				3.8					
				3.2		NLO			
				2.8					
35		5.0	26	0.4	[Pattern]		OU2MW-38 (25-30)	35 - 40 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown.	[Diagram]
				0.3		NLO			
				0.3					
				0.2					
40		5.0	25	0.0	[Pattern]		OU2MW-38 (25-30)	40 - 45 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; slight naphthalene-like odor, wet, light brown, little coarse sand, loose.	[Diagram]
						NLO			
45		5.0	22	0.0	[Pattern]		OU2MW-38 (45-50)	45 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown / reddish brown, little coarse sand, loose.	[Diagram]
50		5.0	27	0.0	[Pattern]		OU2MW-38 (45-50)	50 - 55 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown / reddish brown, little coarse sand, loose.	[Diagram]

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR



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 PROJECT NAME: Bay Shore Former MGP Site
 CITY/STATE: Bay Shore, New York
 GEI PROJECT NUMBER: 093180

BORING LOG
 PAGE 3 of 3
 OU2MW-38S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55		5.0	27	0.0					
							55 - 56.3 SILTY SAND (SM); ~60% sand, fine, ~35% fines, ~5% gravel, fine; wet, brown / light brown. 56.3 - 60 NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~20% gravel, fine; wet, light brown / reddish brown, little coarse sand, loose.		
60		5.0	21	0.0					
							60 - 65 NARROWLY GRADED SAND WITH SILT (SP-SM); ~85% sand, fine to medium, ~10% fines, ~5% gravel, fine; wet, light brown.		
65		5.0	14	0.0					
							65 - 67.1 SILTY SAND (SM); ~70% sand, fine to medium, ~30% fines; wet, brown / gray, loose. 67.1 - 70 NARROWLY GRADED SAND WITH SILT (SP-SM); ~90% sand, fine to medium, ~10% fines; wet, light brown / gray, little coarse sand, loose.		
70		5.0	11	0.0			OU2MW-38 (70-73)		
							70 - 73.6 SILTY SAND (SM); ~70% sand, fine to medium, ~25% fines, ~5% gravel, fine; wet, light brown / gray. 73.6 - 75 SILTY CLAY (CL-ML); ~75% fines, ~20% gravel, fine, ~5% sand, fine to medium; gray.		
75									

Bottom of borehole at 75.0 feet.
 Multiple PID values recorded within a single sample interval represent screening measurements.

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 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
 PAGE 1 of 3
 OU2MW-39S.I.I2.D

GROUND SURFACE ELEVATION (FT): 21.63 LOCATION: 33 N. Clinton System
 NORTHING: 203034.23 EASTING: 1190663 TOTAL DEPTH (FT): 79.00
 DRILLED BY: Zebra Environmental DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: Chris Morris DATE START / END: 10/31/2008 - 10/31/2008
 DRILLING DETAILS:
 WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0		5.0		0.0					
							0 - 0.3 TOPSOIL. 0.3 - 1 SILTY SAND WITH GRAVEL (SM); ~60% silty sand, ~20% fine to medium sand, ~20% fine to coarse gravel, dry, brown. 1 - 2 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; light brown. 2 - 3 SILTY SAND (SM); ~50% silty sand, ~30% organic matter, ~20% fine gravel, moderate organic-like odor, dry, dark brown / black. 3 - 4.2 SILTY SAND (SM); ~60% silty sand, 20% fine to medium sand, ~20% fine gravel, dry. 4.2 - 5 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; dry, brown. 5 - 6 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; dry, brown. 6 - 10 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, fine to coarse, ~30% gravel, fine, ~10% fines; dry to wet, light brown. 10 - 15 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, fine to coarse, ~30% gravel, fine, ~10% fines; wet, light brown.		
5		5.0	42	0.0					
10		5.0	28	0.0					
15		5.0	41	0.0					
				7.8	NLO				
				1.9	NLO				
				3.3	NLO				
20		5.0	26	14.3					
				8.6	NLO				
				3.3	NLO				
							15.7 - 15.7 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, fine to coarse, ~30% gravel, fine, ~10% fines; wet, light brown. 15.7 - 16.7 WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% sand, fine to coarse, ~30% gravel, fine, ~10% fines; slight naphthalene-like odor, wet, light brown, slightly lighter than previous sample. 16.7 - 17.4 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; moderate naphthalene-like odor, light brown / gray. 17.4 - 20 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; moderate naphthalene-like odor, light brown. 20 - 21.2 WIDELY GRADED SAND WITH		

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 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR
 CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10



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CITY/STATE: Bay Shore, New York
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BORING LOG
PAGE 2 of 3
OU2MW-39S.I.12.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25				1.9	[Pattern]	NLO	OU2MW-39 (25-30)	GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; moderate naphthalene-like odor, light brown. 21.2 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; moderate naphthalene-like odor, odor decreasing with depth. 25 - 28 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; moderate naphthalene-like odor. 28 - 28.6 SILTY SAND (SM); ~60% silty sand, ~40% fine to medium sand, moderate naphthalene-like odor, light brown / brown. 28.6 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor. 30 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, loose.	[Diagram]
		5.0	25	0.9		NLO			
				0.6		NLO			
				0.6		NLO			
30				0.2	[Pattern]	NLO	35 - 40 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; slight naphthalene-like odor, loose. No odor at bottom of sample.	[Diagram]	
		5.0	18	2.2		NLO			
				1.1		NLO			
35				1.5	[Pattern]	NLO	40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown.	[Diagram]	
		5.0	27	0.5		NLO			
				0.2		NLO			
40				0.0	[Pattern]	NLO	45 - 46.1 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand, fine to coarse, ~30% gravel, fine; wet, light brown. 46.1 - 50 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; wet, brown / reddish brown, little coarse sand.	[Diagram]	
		5.0	24	0.0		NLO			
45				0.0	[Pattern]	NLO	50 - 53.9 NARROWLY GRADED SAND WITH GRAVEL (SP); ~70% sand, fine to medium, ~30% gravel, fine; wet, light brown, little coarse sand.	[Diagram]	
		5.0	19	0.0		NLO			
50				0.0	[Pattern]	NLO		[Diagram]	
		5.0	23	0.0		NLO			

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

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IN. = INCHES
FT. = FEET

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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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BORING LOG
PAGE 3 of 3
OU2MW-39S.I.12.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55		5.0	0	NA			53.9 - 55 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, fine, ~10% fines; wet, light brown / red. 55 - 60 NO RECOVERY. 1 to 2 in. of soil in shoe: NARROWLY GRADED SAND WITH GRAVEL (SP); ~80% sand, fine to medium, ~15% gravel, fine, ~5% fines; wet, light brown, loose.		
60		5.0	13	0.0			60 - 61.2 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, fine, ~10% fines; wet, light brown / red. 61.2 - 63.8 NARROWLY GRADED SAND WITH SILT (SP-SM); ~80% sand, fine to medium, ~10% gravel, ~10% fines; light brown / brown.		
65		5.0	0	NA			63.8 - 65 SILTY SAND (SM); ~60% sand, fine to medium, ~30% fines, ~10% gravel, fine; light brown / gray. 65 - 70 NO RECOVERY. Small amount of soil in shoe: light brown/gray fine sand.		
70		5.0	24	0.0			70 - 70.4 SILTY SAND (SM); ~60% sand, fine, ~40% fines; gray. 70.4 - 75 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel, fine; wet, light brown to gray, some coarse sand.		
75		4.0	15	0.0			75 - 79 WIDELY GRADED SAND WITH GRAVEL (SW); ~60% sand, fine to coarse, ~40% gravel, fine to coarse; wet, light brown / gray, loose.		

Refusal at 79.0 feet.
Bottom of borehole at 79.0 feet.
Multiple PID values recorded within a single sample interval represent screening measurements.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



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BORING LOG
PAGE 1 of 1
OU2MW-40S.I

GROUND SURFACE ELEVATION (FT): 16.77 LOCATION: 9 N. Clinton System
NORTHING: 202148.03 EASTING: 1191102.61 TOTAL DEPTH (FT): 23.00
DRILLED BY: Fenley & Nicol Environmental, Inc. DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Autumn Eberhardt DATE START / END: 8/14/2008 - 8/14/2008
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
0					0 - 23	
5						
10						
15						
20						

Bottom of borehole at 23.0 feet.
Bentonite seal 14-16'. (Shown smaller so well screen interval would show in its entirety)

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
ALO = ASPHALT LIKE ODOR CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10



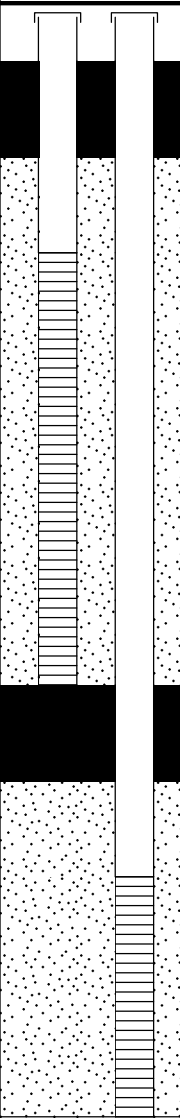
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(860) 368-5300

CLIENT: **National Grid**
PROJECT NAME: **Bay Shore Former MGP Site**
CITY/STATE: **Bay Shore, New York**
GEI PROJECT NUMBER: **093180**

BORING LOG
PAGE 1 of 1
OU2MW-41S.I

GROUND SURFACE ELEVATION (FT): 16.8 LOCATION: 9 N. Clinton System
NORTHING: 202026.79 EASTING: 1191001.06 TOTAL DEPTH (FT): 23.00
DRILLED BY: Fenley & Nicol Environmental, Inc. DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Autumn Eberhardt DATE START / END: 8/12/2008 - 8/12/2008
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT): _____

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
0				0 - 23		
5						
10						
15						
20						

Bottom of borehole at 23.0 feet.
Bentonite seal 14-16'. (Shown smaller so well screen interval would show in its entirety)

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL ppm = PARTS PER MILLION NLO = NAPHTHALENE LIKE ODOR CrLO= CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE IN. = INCHES PLO = PETROLEUM LIKE ODOR OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) FT. = FEET TLO = TAR LIKE ODOR SLO = SULFUR LIKE ODOR
CLO = CHEMICAL LIKE ODOR MLO = MUSTY LIKE ODOR
ALO = ASPHALT LIKE ODOR



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BORING LOG

OU2MW-42S.I.12.D

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DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
25						
30						
35						
40						
45						
50						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO= CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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BORING LOG
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OU2MW-44S.I.I2.D

GROUND SURFACE ELEVATION (FT): 16.54 **LOCATION:** 33 N. Clinton System - Cooper Lane
NORTHING: 202755.36 **EASTING:** 1190280.93 **TOTAL DEPTH (FT):** 70.00
DRILLED BY: Fenley & Nicol Environmental, Inc. **DATUM VERT. / HORZ.:** NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: DH **DATE START / END:** 10/28/2009 - 10/28/2009
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.					
0		5.0					0 - 5	
5		5.0	45	1.1 1.3 1.1 1.2 1.4 1.1			5 - 6.1 LEAN CLAY (CL); brown, some sand and gravel. 6.1 - 10 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine, ~5% fines; max. size 0.5 in., wet, dark brown.	
10		5.0	56	1.1 3.1 4.6 5.0 5.0 6.1	SLO	OU2MW-44 (12-14) OU2MW-44 (14)	10 - 15 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~15% gravel, fine to coarse, ~5% fines; max. size 1 in., slight sulfur-like odor, wet, dark brown.	
15		5.0	56	3.1 4.5 4.8 5.2 6.0 4.8			15 - 20 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine to coarse, ~5% fines; max. size 1 in., wet, dark brown.	
20		5.0	52	2.1 1.6 3.1 4.0 2.6			20 - 25 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, ~5% fines; wet, gray.	

NOTES:

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ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

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PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
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BORING LOG

OU2MW-44S.I.12.D

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25				3.0			25 - 30 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, ~5% fines; max. size 0.5 in., wet, light brown.		
		5.0	52	3.0		OU2MW-44 (27-29)			
				2.8					
				3.1					
				3.0					
30				3.6			30 - 35 WIDELY GRADED SAND (SW); ~85% sand, fine to coarse, ~10% gravel, fine, ~5% fines; max. size 0.5 in., wet, brown.		
		5.0	56	3.4		OU2MW-44 (29)			
				0.8					
				1.3					
				2.3					
35				2.6			35 - 40 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, ~5% fines; max. size 0.25 in., wet, light brown.		
		5.0	56	0.9					
				0.8					
				1.0					
				1.5					
40				2.1			40 - 45 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~5% gravel, fine, ~5% fines; max. size 0.25 in., wet, light brown.		
		5.0	54	2.3					
				2.7					
				2.4					
				0.4					
45				0.6			45 - 50 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; wet, brown.		
		5.0	56	0.4		OU2MW-44 (46-48)			
				0.3					
				0.3					
				0.3					
50				0.3			50 - 55 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; wet, light brown, silty layer from 40- 45 in.		
		5.0	45	0.0		OU2MW-44 (48)			
				0.1					
				0.1					
				0.2					

NOTES:

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PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
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CrLO = CREOSOTE LIKE ODOR
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OU2MW-44S.I.I2.D

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
55				0.0			55 - 60 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; wet, light brown.		
				0.0					
				0.0					
		5.0	56	0.0					
				0.0					
				0.0					
60				0.0					60 - 65 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% fines; wet, brown.
				0.0					
				0.0					
		5.0	56	0.0					
				0.0					
				0.0					
65				0.0		OU2MW-44 (66-68)	65 - 70 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% fines; wet, dark brown.		
				0.0					
				0.0					
		5.0	56	0.0					
				0.0					
				0.0					
70				0.0		OU2MW-44 (68)			
			0.0						

Bottom of borehole at 70.0 feet.
 Multiple PID values recorded within a single sample interval represent screening measurements.

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

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ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

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OU2MW-45S.I.I2.D

GROUND SURFACE ELEVATION (FT): 17.5 LOCATION: 34 N. Clinton System
NORTHING: 202586.6 EASTING: 1190563.77 TOTAL DEPTH (FT): 60.00
DRILLED BY: Fenley & Nicol Env. DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: _____ DATE START / END: 9/11/2008 - 9/12/2008
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): _____

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
0				0 - 60		
5						
10						
15						
20						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
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BORING LOG
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OU2MW-45S.I.I2.D

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
25						
30						
35						
40						
45						
50						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

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BORING LOG
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 OU2MW-45S.I.I2.D

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
55						
60						
Bottom of borehole at 60.0 feet. Ground surface elevation is approximate						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	



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BORING LOG

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OU2MW-46S.I.I2

GROUND SURFACE ELEVATION (FT): 18.09 LOCATION: 34 N. Clinton System
 NORTHING: 202738.03 EASTING: 1190732.19 TOTAL DEPTH (FT): 45.00
 DRILLED BY: Fenley & Nicol Env. DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
 LOGGED BY: DATE START / END: 9/15/2008 - 9/16/2008
 DRILLING DETAILS: Geoprobe
 WATER LEVEL DEPTHS (FT):

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
0					0 - 45	
5						
10						
15						
20						

ENVIRONMENTAL BORING LOG OU-2 GINT DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

NOTES:

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 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR



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OU2MW-46S.I.I2

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
25						
30						
35						
40						
45						

Bottom of borehole at 45.0 feet.
Ground surface elevation is approximate

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

NOTES:

- | | | | |
|--|-------------------------|-----------------------------|---------------------------|
| PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL | ppm = PARTS PER MILLION | NLO = NAPHTHALENE LIKE ODOR | CrLO = CREOSOTE LIKE ODOR |
| REC = RECOVERY LENGTH OF SAMPLE | IN. = INCHES | PLO = PETROLEUM LIKE ODOR | OLO = ORGANIC LIKE ODOR |
| PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) | FT. = FEET | TLO = TAR LIKE ODOR | SLO = SULFUR LIKE ODOR |
| | | CLO = CHEMICAL LIKE ODOR | MLO = MUSTY LIKE ODOR |
| | | ALO = ASPHALT LIKE ODOR | |



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OU2MW-47S.I.I2.D

DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
25						
30						
35						
40						
45						
50						

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
 REC = RECOVERY LENGTH OF SAMPLE
 PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
 IN. = INCHES
 FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
 PLO = PETROLEUM LIKE ODOR
 TLO = TAR LIKE ODOR
 CLO = CHEMICAL LIKE ODOR
 ALO = ASPHALT LIKE ODOR

CrLO = CREOSOTE LIKE ODOR
 OLO = ORGANIC LIKE ODOR
 SLO = SULFUR LIKE ODOR
 MLO = MUSTY LIKE ODOR



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DEPTH FT.	SAMPLE INFO			STRATA	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.			
55						
60						

Bottom of borehole at 63.5 feet.
 Ground surface elevation is approximate

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLO = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
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		ALO = ASPHALT LIKE ODOR	



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OU2MW-52S.I.D

DEPTH FT.	SAMPLE INFO				STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS	
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-6	5.0	20	NM	[Dotted pattern]	OU2MW-52 (35-40)	25 - 30 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown.		
30	S-7	5.0	36	NM					30 - 35 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown.
35	S-8	5.0	34	NM					35 - 40 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown.
40	Bottom of borehole at 40.0 feet.								

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

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		ALO = ASPHALT LIKE ODOR	



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BORING LOG
OU2MW-53S.I.D
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GROUND SURFACE ELEVATION (FT): 5.28 LOCATION: Plume Tail System
NORTHING: 200540.54 EASTING: 1191676.8 TOTAL DEPTH (FT): 50.00
DRILLED BY: Zebra Environmental DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY Long Island Zone
LOGGED BY: Chris Morris DATE START / END: 4/2/2009 - 4/2/2009
DRILLING DETAILS:
WATER LEVEL DEPTHS (FT): ▽ 5.50 4/2/2009

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
0	S-1	5.0	32	0.0	[Strata pattern]	OU2MW-53 (3-8)	0 - 0.6 TOPSOIL. 0.6 - 2.2 SILTY SAND (SM); ~60% sand, fine to medium, ~35% fines, ~5% gravel, fine; dry, brown.	[Well construction diagram]	
5	S-2	5.0	58	NM			5 - 6 WIDELY GRADED SAND (SW); ~95% sand, fine to coarse, ~5% gravel, fine; dry to wet, light brown, wet at 5.5. 6 - 6.2 WIDELY GRADED SAND WITH GRAVEL (SW); ~50% sand, fine to medium, ~15% gravel, fine; ~35% peat and organic matter, moderate organic-like odor, black / dark brown. 6.2 - 7.3 SILTY SAND (SM); ~70% sand, fine to medium, ~20% fines, ~10% gravel, fine to coarse; wet, gray. 7.3 - 10 WIDELY GRADED SAND (SW); fine to coarse, ~90% fines, ~10% gravel, fine; wet, light brown. 10 - 14.7 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown.		
10	S-3	5.0	46	0.0			14.7 - 15 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; wet, light brown. 15 - 20 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown / red brown, fine to coarse gravel layer from 14- 16 in. and 18- 19 in.		
15	S-4	5.0	41	0.0			20 - 25 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown / red brown.		
20	S-5	5.0	39	0.0			OU2MW-53 (20-25)		20 - 25 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown / red brown.

NOTES:

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REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR
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ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ GEI CONSULTANTS.GDT 5/21/10



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OU2MW-53S.I.D

ENVIRONMENTAL BORING LOG OU-2 GINT.DATABASE.GPJ_GEI CONSULTANTS.GDT 5/21/10

DEPTH FT.	SAMPLE INFO				STRATA	ODOR	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION	WELL CONSTRUCTION DETAILS
	TYPE and NO.	PEN FT.	REC IN.	PID (ppm)					
25	S-6	5.0	40	0.0	[Pattern]			25 - 27.6 WIDELY GRADED SAND (SW); ~90% sand, fine to coarse, ~10% gravel, fine; wet, light brown / red brown.	[Diagram]
								27.6 - 30 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; light brown.	
30	S-7	5.0	31	0.0	[Pattern]			30 - 32.1 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; light brown.	[Diagram]
								32.1 - 32.7 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; light brown.	
35	S-8	5.0	40	0.0	[Pattern]		OU2MW-53 (35-40)	32.7 - 33 WIDELY GRADED SAND (SW); ~100% sand, fine to medium; slight organic-like odor, wet, dark gray.	[Diagram]
								33 - 34.5 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; light brown.	
40	S-9	5.0	39	0.0	[Pattern]			34.5 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, ~20% gravel, fine; light brown.	[Diagram]
								35 - 40 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; light brown / brown.	
45	S-10	5.0	38	0.0	[Pattern]			40 - 43.7 WIDELY GRADED SAND (SW); ~100% sand, fine to coarse; light brown / brown.	[Diagram]
								43.7 - 45 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel; wet, light brown, trace coarse sand.	
50								45 - 50 NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, ~5% gravel; wet, light brown, trace coarse sand.	[Diagram]
Bottom of borehole at 50.0 feet.									

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL	ppm = PARTS PER MILLION	NLO = NAPHTHALENE LIKE ODOR	CrLO = CREOSOTE LIKE ODOR
REC = RECOVERY LENGTH OF SAMPLE	IN. = INCHES	PLo = PETROLEUM LIKE ODOR	OLO = ORGANIC LIKE ODOR
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)	FT. = FEET	TLO = TAR LIKE ODOR	SLO = SULFUR LIKE ODOR
		CLO = CHEMICAL LIKE ODOR	MLO = MUSTY LIKE ODOR
		ALO = ASPHALT LIKE ODOR	

Appendix H

Monitoring Well Decommissioning Logs

WELL DECOMMISSIONING RECORD

Site Name: <i>Bay Shore, M&P</i>	Well I.D.: <i>GM-03 S, I, D</i>
Site Location: <i>Saint Patrick's</i>	Driller: <i>Mike Mole</i>
Drilling Co.: <i>F&N</i>	Inspector: <i>Jose Parillo</i>
	Date: <i>8/12/08</i>

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<p>OVERDRILLING</p> <p>Interval Drilled..... <input type="checkbox"/></p> <p>Drilling Method(s)..... <input type="checkbox"/></p> <p>Borehole Dia. (in.)..... <input type="checkbox"/></p> <p>Temporary Casing Installed? (y/n)..... <input checked="" type="checkbox"/></p> <p>Depth temporary casing installed..... <input type="checkbox"/></p> <p>Casing type/dia. (in.)..... <input type="checkbox"/></p> <p>Method of installing..... <input type="checkbox"/></p>	<p>Depth (feet)</p>	
<p>CASING PULLING</p> <p>Method employed..... <input checked="" type="checkbox"/></p> <p>Casing retrieved (feet)..... <input type="checkbox"/></p> <p>Casing type/dia. (in.)..... <input type="checkbox"/></p>		
<p>CASING PERFORATING</p> <p>Equipment used..... <input checked="" type="checkbox"/></p> <p>Number of perforations/foot..... <input type="checkbox"/></p> <p>Size of perforations..... <input type="checkbox"/></p> <p>Interval perforated..... <input type="checkbox"/></p>		
<p>GROUTING</p> <p>Interval grouted (FBLs)..... <i>68, 45, 22 → CS</i></p> <p># of batches prepared..... <i>1</i></p> <p><u>For each batch record:</u></p> <p>Quantity of water used (gal.)..... <i>15</i></p> <p>Quantity of cement used (lbs.)..... <i>25</i></p> <p>Cement type..... <i>Type II Blended</i></p> <p>Quantity of bentonite used (lbs.)..... <i>315</i></p> <p>Quantity of calcium chloride used (lbs.)... <i>—</i></p> <p>Volume of grout prepared (gal.)..... <i>~25</i></p> <p>Volume of grout used (gal.)..... <i>~15</i></p>		
<p>COMMENTS: <i>3 Mus. @ Cluster, Great MW</i></p> <p><i>m-place, cannot pull due to</i></p> <p><i>location. Cannot fit by w/2 location.</i></p>		

*Sketch in all relevant decommissioning data, including: Interval overdrilled, interval grouted, casing left in hole, Well stickup etc.

WELL DECOMMISSIONING RECORD

Site Name:	Well I.D.: SP-2
Site Location:	Driller:
Drilling Co.:	Inspector:
	Date:

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<p>OVERDRILLING</p> <p>Interval Drilled.....</p> <p>Drilling Method(s).....</p> <p>Borehole Dia. (in.).....</p> <p>Temporary Casing Installed? (y/n).....</p> <p>Depth temporary casing installed.....</p> <p>Casing type/dia. (in.).....</p> <p>Method of installing.....</p>	<p>Depth (feet)</p> <div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; width: 100%; height: 100%; position: relative;"> <!-- Vertical scale lines --> <div style="position: absolute; left: 0; top: 0; bottom: 0; border-left: 1px solid black;"></div> <div style="position: absolute; right: 0; top: 0; bottom: 0; border-right: 1px solid black;"></div> <!-- Horizontal scale lines --> <div style="position: absolute; top: 0; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 10%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 20%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 30%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 40%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 50%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 60%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 70%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 80%; left: 0; right: 0; border-top: 1px solid black;"></div> <div style="position: absolute; top: 90%; left: 0; right: 0; border-top: 1px solid black;"></div> </div> </div>	
<p>CASING PULLING</p> <p>Method employed.....</p> <p>Casing retrieved (feet).....</p> <p>Casing type/dia. (in.).....</p>		<p>10-15</p> <p>20-25</p>
<p>CASING PERFORATING</p> <p>Equipment used.....</p> <p>Number of perforations/foot.....</p> <p>Size of perforations.....</p> <p>Interval perforated.....</p>		<p>30-35</p>
<p>GROUTING</p> <p>Interval grouted (FBLs).....</p> <p># of batches prepared.....</p> <p>For each batch record:</p> <p>Quantity of water used (gal.).....</p> <p>Quantity of cement used (lbs.).....</p> <p>Cement type.....</p> <p>Quantity of bentonite used (lbs.).....</p> <p>Quantity of calcium chloride used (lbs.)...</p> <p>Volume of grout prepared (gal.).....</p> <p>Volume of grout used (gal.).....</p>		<p>40-45'</p>

<p>COMMENTS:</p>	<p>*Sketch in all relevant decommissioning data, including: Interval overdrilled, interval grouted, casing left in hole, Well stickup etc.</p>
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WELL DECOMMISSIONING RECORD

Site Name: Bay Shore Motel, 00-2	Well ID.: SP-3
Site Location: Saint Patrick	Driller: Mike Mada
Drilling Co.: F&N	Inspector: Jess Pella
Date:	

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*	
<p>OVERDRILLING</p> <p>Interval Drilled.....</p> <p>Drilling Method(s).....</p> <p>Borehole Dia. (in.).....</p> <p>Temporary Casing Installed? (y/n).....</p> <p>Depth temporary casing installed.....</p> <p>Casing type/dia. (in.).....</p> <p>Method of installing.....</p>	<p style="text-align: center;">Depth (feet)</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>15-15 15'/15'</p> <p>20-25 25'/25'</p> <p>30-35' 35'/35'</p> <p>40-45' 45'/45'</p> <p>50-55' 55'/55'</p> <p>55-60' 60'/60'</p> <p>65-70 70'/70'</p> </div> <div style="flex: 1; border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;"> <p>10'</p> <p>15'</p> <p>20'</p> <p>25'</p> <p>30'</p> <p>35'</p> <p>40'</p> <p>45'</p> <p>50'</p> <p>55'</p> <p>60'</p> <p>65'</p> <p>70'</p> </div> </div>	
<p>CASING PULLING</p> <p>Method employed.....</p> <p>Casing retrieved (feet).....</p> <p>Casing type/dia. (in.).....</p>		
<p>CASING PERFORATING</p> <p>Equipment used.....</p> <p>Number of perforations/foot.....</p> <p>Size of perforations.....</p> <p>Interval perforated.....</p>		
<p>GROUTING</p> <p>Interval grouted (FBLs).....</p> <p># of batches prepared.....</p> <p>For each batch record:</p> <p>Quantity of water used (gal.).....</p> <p>Quantity of cement used (lbs.).....</p> <p>Cement type.....</p> <p>Quantity of bentonite used (lbs.).....</p> <p>Quantity of calcium chloride used (lbs.)...</p> <p>Volume of grout prepared (gal.).....</p> <p>Volume of grout used (gal.).....</p>		
<p>COMMENTS: No Bentonite or cement used during well construction, 7 1/2" per min up to 3 boreholes, could not retrieve all casing @ 57' up, had to cement pump grout through 1/2" per well per grout @ 55'.</p>		

*Sketch in all relevant decommissioning data, including: Interval overdrilled, interval grouted, casing left in hole, Well stickup etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD

Site Name: Bay Shore MAP - DW-2	Well ID.: SP-4
Site Location: ST Patrick's	Driller: M.L. Mede
Drilling Co.: Ferdy + Nicol	Inspector: Jeff Perillo
	Date: 8/11/08

DECOMMISSIONING DATA (Fill in all that apply)

OVERDRILLING

Interval Drilled.....	
Drilling Method(s).....	
Borehole Dia. (in.).....	
Temporary Casing Installed? (y/n).....	
Depth temporary casing installed.....	
Casing type/dia. (in.).....	
Method of installing.....	

CASING PULLING

Method employed.....	Hand/Winch
Casing retrieved (feet).....	15, 25, 35, 45, 55, 60
Casing type/dia. (in.).....	6 1/2" pipe pipes No cement/Bentonite

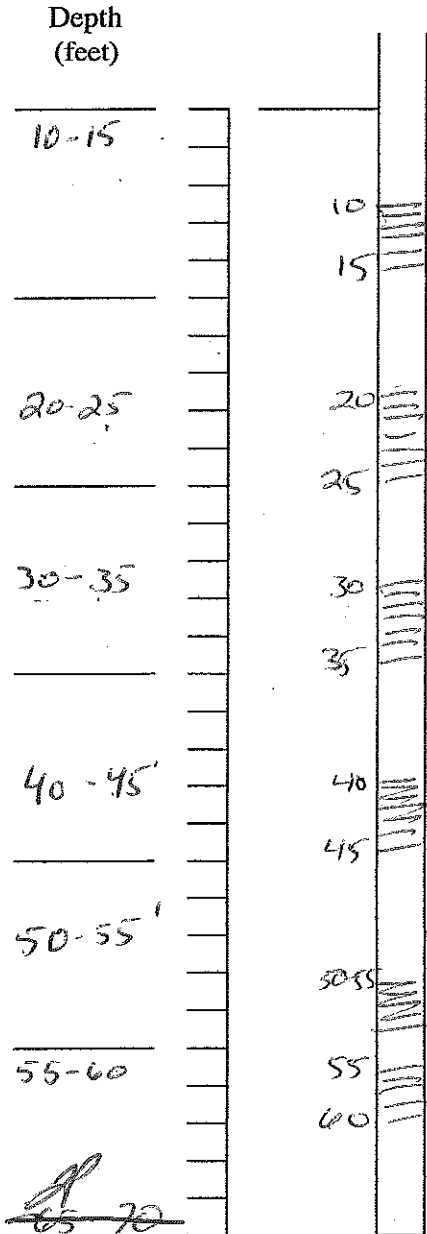
CASING PERFORATING

Equipment used.....	
Number of perforations/foot.....	
Size of perforations.....	
Interval perforated.....	

GROUTING

Interval grouted (FBLs).....	65
# of batches prepared.....	1 for 3 inches
For each batch record:	
Quantity of water used (gal.).....	4
Quantity of cement used (lbs.).....	15
Cement type.....	Lehigh Type II
Quantity of bentonite used (lbs.).....	2
Quantity of calcium chloride used (lbs.)...	-
Volume of grout prepared (gal.).....	5
Volume of grout used (gal.).....	2

WELL SCHEMATIC*



COMMENTS: 6 1/2" pipe used, no grout or Bentonite between well screens. Could not cement through 1/2" pipe, but poured @ ground surface, hole collapsed @ WT ~ 6'

*Sketch in all relevant decommissioning data, including: Interval overdrilled, interval grouted, casing left in hole, Well stickup etc.

Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD

Site Name: Bay Shore MLP, DW-2	Well ID.: SP-5
Site Location: ST Patrick's	Driller: Mike Nede
Drilling Co.: Fenely + Nicol	Inspector: Jess Parillo
	Date: 8/11/08

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled.....	
Drilling Method(s).....	
Borehole Dia. (in.).....	N/A
Temporary Casing Installed? (y/n).....	
Depth temporary casing installed.....	
Casing type/dia. (in.).....	
Method of installing.....	

CASING PULLING

Method employed.....	Hand
Casing retrieved (feet).....	15, 25, 35, 45
Casing type/dia. (in.).....	4 1/2" pipes

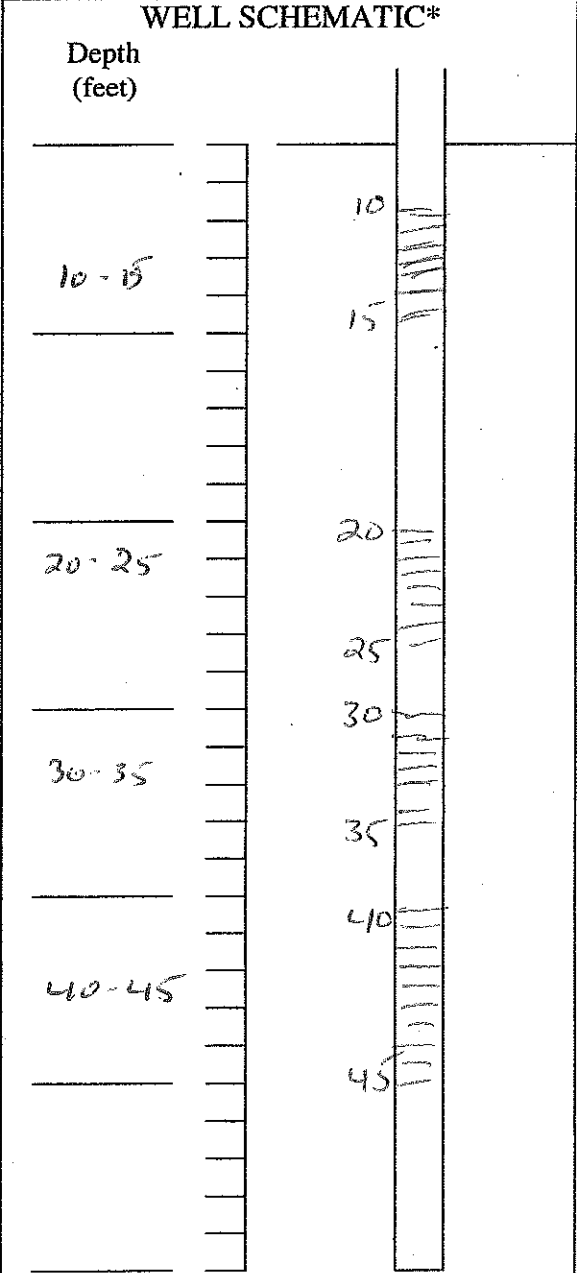
NO Grout or Bentonite

CASING PERFORATING

Equipment used.....	
Number of perforations/foot.....	N/A
Size of perforations.....	
Interval perforated.....	

GROUTING

Interval grouted (FBLs).....	6-5
# of batches prepared.....	1 per 3 sections
For each batch record:	
Quantity of water used (gal.).....	4
Quantity of cement used (lbs.).....	15
Cement type.....	Large Type II
Quantity of bentonite used (lbs.).....	2
Quantity of calcium chloride used (lbs.)...	-
Volume of grout prepared (gal.).....	5
Volume of grout used (gal.).....	1.5



COMMENTS: 4 1/2" pipe MW's (10-15, 20-25, 30-35, 40-45)
 Driller able to pull MW's out by hand
 Could not create enough 1/2" pipe lined least at 6-5
 hole collapsed @ 45 ~ 6' bss.

*Sketch in all relevant decommissioning data, including:
 Interval overdrilled, interval grouted, casing left in hole,
 Well stickup etc.

WELL DECOMMISSIONING RECORD

Site Name: <u>Bay Shore, Map 00-2</u>	Well I.D.: <u>SP-7</u>
Site Location: <u>Sant Petros</u>	Driller: <u>A. K. M. J.</u>
Drilling Co.: <u>F&N</u>	Inspector: <u>J. R. P. 110</u>
	Date: <u>3/12/08</u>

DECOMMISSIONING DATA

(Fill in all that apply)

OVERDRILLING

Interval Drilled.....	
Drilling Method(s).....	
Borehole Dia. (in.).....	
Temporary Casing Installed? (y/n).....	
Depth temporary casing installed.....	
Casing type/dia. (in.).....	
Method of installing.....	

CASING PULLING

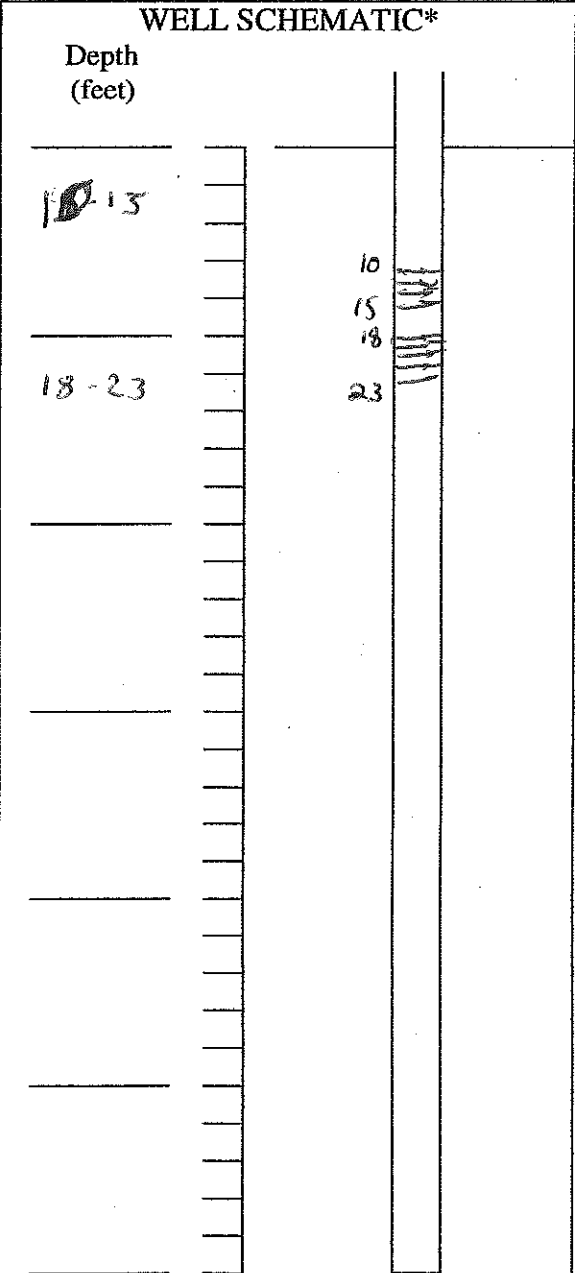
Method employed.....	<u>Hand</u>
Casing retrieved (feet).....	<u>15, 23</u>
Casing type/dia. (in.).....	<u>2 1/2" pipe</u>

CASING PERFORATING

Equipment used.....	
Number of perforations/foot.....	
Size of perforations.....	
Interval perforated.....	

GROUTING

Interval grouted (FBLs).....	<u>65</u>
# of batches prepared.....	<u>1</u>
For each batch record:	
Quantity of water used (gal.).....	<u>8</u>
Quantity of cement used (lbs.).....	<u>10</u>
Cement type.....	<u>Type II L. Best</u>
Quantity of bentonite used (lbs.).....	<u>1</u>
Quantity of calcium chloride used (lbs.)...	<u>—</u>
Volume of grout prepared (gal.).....	<u>3</u>
Volume of grout used (gal.).....	<u>2</u>



COMMENTS: 2, 1/2" pipe w/I sand base hole. All casing removed. Could not connect through 1/2" pipe. Poured grout @ ground surface.

*Sketch in all relevant decommissioning data, including: Interval overdrilled, interval grouted, casing left in hole, Well stickup etc.

WELL DECOMMISSIONING RECORD

Site Name: <u>Bay Shore MC-P-00-2</u>	Well I.D.: <u>SP-8</u>
Site Location: <u>Saint Patrick's</u>	Driller: <u>Mike Mede</u>
Drilling Co.: <u>Farely + Nicol</u>	Inspector: <u>Jeff Perillo</u>
	Date: <u>8/14/08</u>

DECOMMISSIONING DATA (Fill in all that apply)

OVERDRILLING

Interval Drilled.....	
Drilling Method(s).....	N
Borehole Dia. (in.).....	
Temporary Casing Installed? (y/n).....	A
Depth temporary casing installed.....	
Casing type/dia. (in.).....	
Method of installing.....	

CASING PULLING

Method employed.....	<u>Hand</u>
Casing retrieved (feet).....	<u>15-23</u>
Casing type/dia. (in.).....	<u>2, 1/2" pipe</u>

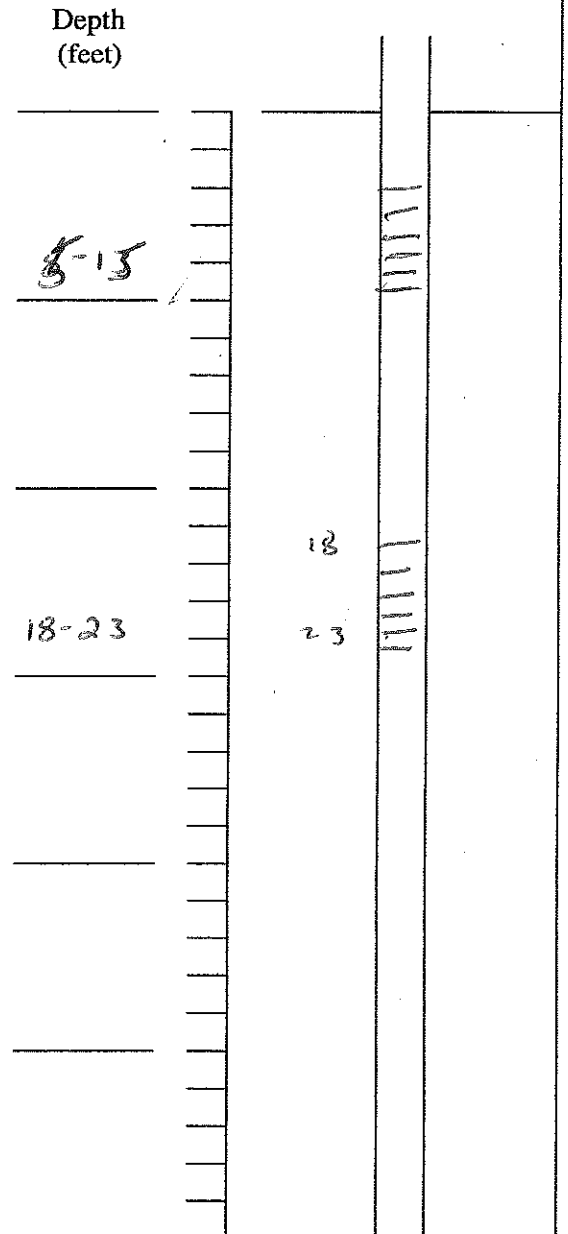
CASING PERFORATING

Equipment used.....	N
Number of perforations/foot.....	
Size of perforations.....	A
Interval perforated.....	

GROUTING

Interval grouted (FBLs).....	<u>6-5</u>
# of batches prepared.....	<u>1 Per 3 batches</u>
<u>For each batch record:</u>	
Quantity of water used (gal.).....	<u>4</u>
Quantity of cement used (lbs.).....	<u>15</u>
Cement type.....	<u>Large type II</u>
Quantity of bentonite used (lbs.).....	<u>2</u>
Quantity of calcium chloride used (lbs.)...	<u>-</u>
Volume of grout prepared (gal.).....	<u>5</u>
Volume of grout used (gal.).....	<u>1</u>

WELL SCHEMATIC*



COMMENTS: 2, 1/2" pipe pipes w/ 1 borehole
No gravel or bentonite between well
sections.
Could not grout through 1/2" well, so capped off
lower grout @ a.s. 26' b.s.

*Sketch in all relevant decommissioning data, including:
Interval overdrilled, interval grouted, casing left in hole,
Well pickup etc.

Drilling Contractor _____

Department Representative _____

Appendix I

Soil Density Testing Data and Waste Manifests

Work Order#:

Client: Hallen Construction
4270 Austin Blvd.
Island Park, N.Y. 11558
Project: Various P.O.# 80751
Test: In-Place Density Test
Method: ASTM D2922

Report #: 09HAL-001
Date: 09/22/09
Technician: Jeff Roden

Street Sidewalk Other _____

General Location: Intersection of N. Clinton Ave. and Cooper Lane.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ Grade	Right lane	4.0	117.3	118.1	99.3
2	@ Grade	Left lane	4.5	117.7	118.1	99.7

Remarks: _____

Material Type:
Item #

Reported To:

Min. Compaction Req. **95%**
Complies: **Y**

Submitted By: **Materials Testing Lab, Inc.**

The above reported data is the property of the client. No reproduction of the above data without the sole permission of Materials Testing Lab, Inc. Materials Testing accepts no liability for work executed by others.



DATE 6/5/09JOB # CF9FB051CFI 9681-CCLIENT Progressive Pipeline Mgt.

BILLING ADDRESS

125 Half Mile rd - Suite 200Red Bank, NJ 07701JOB LOCATION 1 On Waco Dr. Brightwaters, NYCONTACT: Robert NatcankeJOB DESCRIPTION: Load # Approx 50 SS Ga) DRUMS**LABOR:**

TIME	NAME	Start	Arrive	Depart	Finish	COMMENTS
	<u>Palva SCHWIMMANN</u>	<u>8:15AM</u>	<u>7:15AM</u>	<u>11:45AM</u>	<u>3:50 PM</u>	

CODE#	QTY	EQUIPMENT:	CODE#	QTY	SAFETY EQUIPMENT:
<u>12</u>	<u>1</u>	VAC TRUCK, ST <input type="checkbox"/> SS <input type="checkbox"/> CS <input type="checkbox"/> DB			PPE Sets <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
		VAC TRUCK, TR <input type="checkbox"/> SS <input type="checkbox"/> CS <input type="checkbox"/> DB			LEL/O ₂ METER
		VACTOR <input type="checkbox"/> Bag House			CONFINED SPACE GEAR
		TURBO VAC <input type="checkbox"/> Bag House			COPUS fan/blower <input type="checkbox"/> Elec. <input type="checkbox"/> Air
<u>119</u>	<u>1</u>	DRUM TRUCK 15' <input type="checkbox"/> 40' <input checked="" type="checkbox"/>			
		UTILITY TRUCK Light <input type="checkbox"/> Heavy <input type="checkbox"/>			
		ROLL-OFF TRUCK			MATERIAL
		CONTAINER # DROP OFF			SPEEDI DRI
		CONTAINER # PICK UP			DRUM Size
		WATERBLASTER <input type="checkbox"/> 10k <input type="checkbox"/> 20k			POLY SHEETING (Roll)
		PRESSURE WASHER 3500K <input type="checkbox"/> Hot <input type="checkbox"/> Cold			CONTAINER LINERS
		SAMPLE VAN			SORBENT PADS (BL.)
		LOADER			SORBENT BOOM (BL.) <input type="checkbox"/> 5' <input type="checkbox"/> 8'
		EXCAVATOR			
		BACK HOE			MEDIA MIX
		BOBCAT (Skid Steer)			
					CLEAN FILL (Ton)

Manifest #	Waste Description	QTY	CUSTOMER:
<u>285691</u>	<u>NON Haz Soil</u>	<u>27 (5 Ga) DRUMS</u>	SIGNATURE <u>X [Signature]</u> (Agent for <u>Natcanke</u>)
			Signature is client's acceptance of labor, equipment, and inventory
			Print Name:
			Title:
			Date:

SUPERVISOR Job Complete Job Incomplete CUSTOMER Satisfactory Unsatisfactory

CASIE / PROTANK

ENVIRONMENTAL SERVICES

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		Generator's US EPA ID No. N J D 0 4 5 9 9 3 6 9 3		Document No. RE D 1		2. Page 1 of							
3. Generator's Name and Mailing Address National Grid (Bayshore) 61 N. Clinton Ave Bayshore NY 11706				A. Non-hazardous Manifest Document Number NHZ020 285691									
4. Generator's Phone (515) 5452585				B. State Generator's ID SAME									
5. Transporter 1 Company Name Casie Ecology Oil Salvage, Inc.		6. US EPA ID Number N J D 0 4 5 9 9 3 6 9 3		C. State Trans. ID									
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (856) 5964401									
9. Designated Facility Name and Site Address Casie Ecology Oil Salvage, Inc. 3209 North Mill Road Vineland NJ 08360		10. US EPA ID Number N J D 0 4 5 9 9 5 5 9 3		E. State Trans. ID									
				F. Transporter's Phone ()									
				G. State Facility's ID 856 5954401									
				H. Facility's Phone ()									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit (Wt/Vol)		15. Waste No.	
						No.		Type					
a. Non Hazardous Materials (Coal Tar) Non DOT Regulated						1770		3,0800		P		10 2 7	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
a. 9081 C						a. S01							
b.						b.							
b.						d.							
15. Special Handling Instructions and Additional Information 24 hr emergency response #609.585.2156 G. Call													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 279 or any applicable state law.													
Printed/Typed Name X. J. ...				Signature <i>[Signature]</i>				Month Day Year					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Scott Wilson				Signature <i>[Signature]</i>				Month Day Year 06 29 09					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
18. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Rick Davis				Signature <i>[Signature]</i>				Month Day Year 10/11/09					

In case of an emergency or spill, immediately call CASIE (800) 354-2584

3-TRANSPORTER 2 COPY

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

RECEIVED JUN 12 2009



P.O. Box 92
Franklinville, NJ 08322
696-4401

ENVIRONMENTAL SERVICES

9F1156
No 72178

Generator National Grid (Bayshore)

Trailer ID _____ Analyst PL

Incoming Outgoing Sale CFI# _____

MANIFEST # NH2020 285691

LVC LABORATORY DATA

pH	<u>NA</u>	Total BS&W	<u>PFT-2001</u>	%
FLASH	<u>NA</u>	°F	BS	%
CHLORINE CONTENT	<u><10</u>	PPM	H ₂ O	%
PCB	<u><1.0</u>	PPM	PAR	%

WASTE CODE	GALLONS	LAB FEE
<u>1027</u>	<u>30,800 P</u>	
	<u>77 OM</u>	

PLANT DATA	TIME LOG
Tank _____	<u>MATE</u>

Submitted By: _____ Date 6/11/01

Casie Protank*
*Vineland NJ *
856-696-4401
Have a nice day!

Transaction No.
59982

Vehicle ID: CP119
Origin ID: VINELAND N
Generator ID: CASIE CASIE PROTANK
Flip Mand ID:
CFI ID: 7700 WEIGH THRU
Destin. ID: CASIE
Manifest ID: 52564
Flip CFI ID:
Project ID:
Trk Co ID: CASIE PRO

	Date	Time	Scale
In:	06/09/2009	15:24	1
Out:	06/10/2009	12:36	1

Gross: 75380 lb (M)
Tare: 31180 lb
Net: 44200 lb

Gross: 37.69 tn (M)
Tare: 15.59 tn
Net: 22.10 tn

Comments: 77 DRUMS

Operator: 4
0 lb= 0

Charge by Weight

0

Signature: _____

Laura Watson

Appendix J

Operations, Maintenance, and Monitoring Data

Appendix J
 Table J1
 Q2 2009 Operational Data
 33 N. Clinton Oxygen Injection System
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2009 lbs

O2%
 R
 Temp R (T)

Operational Days		Oxygen Injected Per Month
Month 1	Apr-09	30
Month 2	May-09	31
Month 3	Jun-09	22
Total Operational Days In Q2 2009		83
Total Oxygen in Q2 2009 (Lbs)		20,186.66
Running Total Through Q 2009 (Lbs)		20,186.66

Notes:
 SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
 CF/D (V) = Volume of oxygen injected per day
 PSI (M) = Measured pressure
 PSla (P) = Pressure converted to atmospheric pressure
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (0.73)

System Operating Specs
 Total of 6 injection banks
 Oxygen is injected for 13 minutes during each injection cycle
 Each Injection bank operates for 4.8 injection cycles per day
 Each injection point injects oxygen for 62.4 min per day (13 min per cycle * 4.8 Cycles)

Example
 Bank 1 starts at 7AM
 Bank 1 finishes injection at 7:13AM
 System is recharging 7:13AM to 8:00AM
 Bank 3 starts injection at 9:00AM
 Bank 3 finishes injection at 9:13AM
 System is recharging from 9:13AM to 10:00AM
 Bank 4 starts injection at 10:00AM
 Bank 4 finishes injection at 10:13AM
 System is recharging from 10:13AM to 11:00PM
 Bank 5 starts injection at 11:00AM
 Bank 5 finishes injection at 11:13AM
 System is recharging from 11:13AM to 12:00PM

		4/15/2009						5/4/2009						6/19/2009						
		95						95						95						
		10.73						10.73						10.73						
		530						530						530						
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2	
Injection Bank 1	Point 1A	62	36	55.131	57.337	23.5	38.2	11.708	25	38.034	39.556	23	37.7	7.972	28	43.160	37.405	24	38.7	7.738
	Point 1B	46	36	49.825	51.818	16.5	31.2	8.642	26	35.985	37.424	16.5	31.2	6.242	29	40.137	34.785	16.5	31.2	5.802
	Point 6A	65	36	56.203	58.452	25	39.7	12.405	26	40.591	42.215	25	39.7	8.959	28	43.714	37.885	25	39.7	8.040
	Point 6B	46	34	47.245	49.135	16.75	31.45	8.260	27	37.518	39.019	16.75	31.45	6.560	30	41.852	36.272	17	31.7	6.146
	Point 11	46	38	52.803	54.915	16.75	31.45	9.232	24	33.216	34.545	16.5	31.2	5.762	26	36.272	31.435	17	31.7	5.327
	Point 35	41	38	50.000	52.000	13.5	28.2	7.839	24	31.579	32.842	13.5	28.2	4.951	27	35.840	31.061	14	28.7	4.765
	Point 40	41	38	50.221	52.230	13.75	28.45	7.943	24	31.579	32.842	13.5	28.2	4.951	26	34.513	29.911	14	28.7	4.589
Point 45	31	38	46.319	48.171	9.5	24.2	6.232	24	28.950	30.108	9	23.7	3.814	25	30.473	26.410	9.5	24.2	3.416	
Total Oxygen Injected per Day (LBS)		72.262						49.210						45.824						
Injection Bank 2	Point 2A	67	30	47.130	49.015	25.5	40.2	10.533	26	40.846	42.480	25.5	40.2	9.129	19	30.034	26.030	26	40.7	5.663
	Point 2B	46	30	41.521	43.181	16.5	31.2	7.202	26	35.985	37.424	16.5	31.2	6.242	21	29.296	25.390	17	31.7	4.303
	Point 7A	65	30	46.688	48.556	24.75	39.45	10.240	28	43.576	45.319	24.75	39.45	9.557	24	37.469	32.473	25	39.7	6.891
	Point 7B	46	30	41.852	43.526	17	31.7	7.376	22	30.691	31.919	17	31.7	5.409	22	30.933	26.808	17.5	32.2	4.614
	Point 12	46	30	41.687	43.354	16.75	31.45	7.289	24	33.349	34.683	16.75	31.45	5.831	24	33.482	29.017	17	31.7	4.917
	Point 36	36	30	37.866	39.381	11.25	25.95	5.463	28	35.171	36.578	11	25.7	5.025	26	32.975	28.579	11.5	26.2	4.003
	Point 41	41	30	39.822	41.415	14	28.7	6.354	26	34.513	35.893	14	28.7	5.507	24	32.134	27.850	14.5	29.2	4.347
Point 46	36	30	38.048	39.570	11.5	26.2	5.542	24	30.147	31.353	11	25.7	4.307	23	29.170	25.281	11.5	26.2	3.541	
Total Oxygen Injected per Day (LBS)		59.998						51.007						38.279						
Injection Bank 3	Point 3A	24.75	32	49.801	51.793	24.75	39.45	10.922	25	38.784	40.335	24.5	39.2	8.452	21	32.785	28.414	25	39.7	6.030
	Point 3B	16.5	40	55.361	57.575	16.5	31.2	9.603	22	30.448	31.666	16.5	31.2	5.281	22	30.570	26.494	16.75	31.45	4.454
	Point 8A	28.5	26	42.343	44.037	28.5	43.2	10.169	26	42.343	44.037	28.5	43.2	10.169	22	36.035	31.231	29	43.7	7.296
	Point 8B	16.5	33	45.673	47.500	16.5	31.2	7.922	26	35.985	37.424	16.5	31.2	6.242	23	31.960	27.698	16.75	31.45	4.657
	Point 32A	24.25	30	46.392	48.247	24.25	38.95	10.046	28	43.160	44.886	24	38.7	9.286	23	35.681	30.923	24.5	39.2	6.480
	Point 32B	11.5	36	45.658	47.484	11.5	26.2	6.650	24	30.439	31.656	11.5	26.2	4.434	19	24.097	20.884	11.5	26.2	2.925
	Point 37	13.5	38	50.000	52.000	13.5	28.2	7.839	24	31.579	32.842	13.5	28.2	4.951	20	26.548	23.008	14	28.7	3.530
Point 42	11.75	36	45.875	47.710	11.75	26.45	6.746	26	32.975	34.294	11.5	26.2	4.803	20	25.607	22.192	12	26.7	3.167	
Total Oxygen Injected per Day (LBS)		69.897						53.618						38.539						
Injection Bank 4	Point 4A	69	27	42.942	44.659	26.5	41.2	9.836	27	42.942	44.659	26.5	41.2	9.836	23	36.801	31.894	27	41.7	7.110
	Point 4B	46	32	44.466	46.244	16.75	31.45	7.775	21	29.064	30.227	16.5	31.2	5.041	20	27.901	24.181	17	31.7	4.098
	Point 9A	71	26	41.850	43.524	27.5	42.2	9.818	25	40.121	41.726	27.25	41.95	9.357	26	41.099	35.619	26	40.7	7.750
	Point 9B	46	30	41.687	43.354	16.75	31.45	7.289	22	30.448	31.666	16.5	31.2	5.281	22	33.023	28.620	22	36.7	5.615
	Point 33	42	40	53.096	55.220	14	28.7	8.472	20	26.548	27.610	14	28.7	4.236	20	29.192	25.299	20	34.7	4.693
	Point 38	36	37	46.926	48.803	11.5	26.2	6.835	21	26.634	27.699	11.5	26.2	3.879	20	29.192	25.299	20	34.7	4.693
	Point 43	31	36	43.654	45.400	9.25	23.95	5.812	20	24.125	25.090	9	23.7	3.179	22	33.023	28.620	22	36.7	5.615
Total Oxygen Injected per Day (LBS)		55.837						40.809						39.572						
Injection Bank 5	Point 5A	65	28	43.714	45.462	25	39.7	9.648	26	40.591	42.215	25	39.7	8.959	21	32.991	28.592	25.5	40.2	6.144
	Point 5B	46	28	38.441	39.978	16	30.7	6.561	26	35.985	37.424	16.5	31.2	6.242	24	33.216	28.788	16.5	31.2	4.801
	Point 10	56	30	44.102	45.866	20.5	35.2	8.630	24	35.282	36.693	20.5	35.2	6.904	23	34.051	29.511	21	35.7	5.632
	Point 34	41	27	35.840	37.274	14	28.7	5.719	24	31.858	33.132	14	28.7	5.083	24	31.579	27.369	13.5	28.2	4.126
	Point 39	26	28	32.319	33.611	7	21.7	3.899	24	27.702	28.810	7	21.7	3.342	21	24.517	21.248	7.5	22.2	2.522
	Point 44	36	28	35.512	36.932	11.5	26.2	5.173	23	29.170	30.337	11.5	26.2	4.249	19	24.326	21.083	12	26.7	3.009
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		39.629						34.779						26.234						
System Total Per Day (LBS)		297.62						229.42						188.45						

Appendix J
Table J1
Q3 2009 Operational Data
33 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2009 20,187 lbs

Operational Days		Oxygen Injected Per Month
Month 1	Jul-09	26
Month 2	Aug-09	31
Month 3	Sep-09	30
Total Operational Days In Q3 2009		87
Total Oxygen in Q3 2009 (Lbs)		23,422.08
Running Total Through Q3 2009 (Lbs)		43,608.74

Notes:
 SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
 CF/D (V) = Volume of oxygen injected per day
 PSI (M) = Measured pressure
 PSia (P) = Pressure converted to atmospheric pressure.
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (0.73)

System Operating Specs
 Total of 6 injection banks
 Oxygen is injected for 13 minutes during each injection cycle
 Each Injection bank operates for 4.8 injection cycles per day
 Each injection point injects oxygen for 62.4 min per day (13 min per cycle * 4.8 Cycles)

Example
 Bank 1 starts at 7AM
 Bank 1 finishes injection at 713AM
 System is recharging 713AM to 800AM
 Bank 3 starts injection at 900AM
 Bank 3 finishes injection at 913AM
 System is recharging from 913AM to 1000AM
 Bank 4 starts injection at 1000AM
 Bank 4 Finishes injection at 1013AM
 System is recharging from 1013AM to 1100PM
 Bank 5 starts injection at 1100AM
 Bank 5 finishes injection at 1113AM
 System is recharging from 1113AM to 1200PM
 Bank 6 starts injection at 1200PM
 System is recharging from 1213PM to 100PM
 (Keep repeating cycle for coarse of day)

System was down between 7/2/09 and 7/6/09 due to a wiring problem within the compressor.

		7/26/2009						8/21/2009						9/17/2009						
		95						95						95						
		10.73						10.73						10.73						
		530						530						530						
		Temp R (T)						Temp R (T)						Temp R (T)						
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	
Injection Bank 1	Point 1A	62	32	49.006	50.966	23.5	38.2	10.407	32	49.006	50.966	23.5	38.2	10.407	18	27.294	28.386	22.75	37.45	5.683
	Point 1B	46	32	43.932	45.690	16	30.7	7.498	27	37.068	38.551	16	30.7	6.327	23	31.318	32.571	15.5	30.2	5.258
	Point 6A	65	36	56.203	58.452	25	39.7	12.405	36	56.203	58.452	25	39.7	12.405	23	35.338	36.751	23.75	38.45	7.554
	Point 6B	46	27	37.068	38.551	16	30.7	6.327	24	33.216	34.545	16.5	31.2	5.762	28	38.753	40.303	16.5	31.2	6.722
	Point 11	46	34	46.678	48.545	16	30.7	7.967	23	31.832	33.106	16.5	31.2	5.521	37	50.797	52.829	16	30.7	8.670
	Point 35	41	26	33.906	35.262	13	27.7	5.221	22	28.690	29.837	13	27.7	4.418	25	33.185	34.513	14	28.7	5.295
	Point 40	41	37	45.563	47.386	10	24.7	6.257	22	28.948	30.105	13.5	28.2	4.538	31	40.790	42.421	13.5	28.2	6.395
Point 45	31	27	35.840	37.274	14	28.7	5.719	22	26.538	27.599	9	23.7	3.497	34	40.796	42.428	8.75	23.45	5.319	
Total Oxygen Injected per Day (LBS)		61.800						52.875						50.894						
Injection Bank 2	Point 2A	67	34	53.745	55.895	26	40.7	12.161	20	31.420	32.677	25.5	40.2	7.022	22	34.347	35.720	25	39.7	7.581
	Point 2B	46	28	39.062	40.624	17	31.7	6.884	28	38.753	40.303	16.5	31.2	6.722	24	33.083	34.406	16.25	30.95	5.692
	Point 7A	65	36	56.203	58.452	25	39.7	12.405	25	38.784	40.335	24.5	39.2	8.452	20	31.027	32.268	24.5	39.2	6.762
	Point 7B	46	27	37.963	39.481	17.5	32.2	6.796	28	39.062	40.624	17	31.7	6.884	33	45.855	47.689	16.75	31.45	8.018
	Point 12	46	32	44.642	46.428	17	31.7	7.867	29	40.137	41.742	16.5	31.2	6.962	35	48.246	50.176	16.25	30.95	8.301
	Point 36	36	28	39.062	40.624	17	31.7	6.884	25	31.403	32.659	11	25.7	4.487	31	38.750	40.300	10.75	25.45	5.483
	Point 41	41	25	33.185	34.513	14	28.7	5.295	30	39.822	41.415	14	28.7	6.354	33	43.421	45.158	13.5	28.2	6.807
Point 46	36	27	34.569	35.952	12	26.7	5.131	34	43.122	44.846	11.5	26.2	6.281	30	37.684	39.191	11	25.7	5.384	
Total Oxygen Injected per Day (LBS)		63.423						53.164						54.028						
Injection Bank 3	Point 3A	24.75	34	53.081	55.204	25	39.7	11.716	40	62.448	64.946	25	39.7	13.783	22	34.130	35.495	24.5	39.2	7.438
	Point 3B	16.5	26	35.985	37.424	16.5	31.2	6.242	28	38.753	40.303	16.5	31.2	6.722	28	38.441	39.978	16	30.7	6.561
	Point 8A	28.5	42	69.187	71.955	29.5	44.2	17.001	30	48.857	50.811	28.5	43.2	11.734	25	40.714	42.343	28.5	43.2	9.778
	Point 8B	16.5	33	45.673	47.500	16.5	31.2	7.922	26	35.985	37.424	16.5	31.2	6.242	23	31.960	33.238	16.75	31.45	5.588
	Point 32A	24.25	30	46.392	48.247	24.25	38.95	10.046	28	43.160	44.886	24	38.7	9.286	23	35.681	37.108	24.5	39.2	7.776
	Point 32B	11.5	30	38.048	39.570	11.5	26.2	5.542	22	27.635	28.740	11	25.7	3.948	30	37.684	39.191	11	25.7	5.384
	Point 37	13.5	27	35.527	36.948	13.5	28.2	5.570	24	31.298	32.550	13	27.7	4.820	25	32.602	33.906	13	27.7	5.021
Point 42	11.75	31	39.317	40.889	11.5	26.2	5.727	24	30.147	31.353	11	25.7	4.307	30	37.684	39.191	11	25.7	5.384	
Total Oxygen Injected per Day (LBS)		69.765						60.842						52.930						
Injection Bank 4	Point 4A	69	27	44.728	46.517	30	44.7	11.115	40	63.617	66.162	26.5	41.2	14.571	26	41.351	43.005	26.5	41.2	9.471
	Point 4B	46	17	28.476	29.615	31	45.7	7.235	29	40.137	41.742	16.5	31.2	6.962	32	44.289	46.060	16.5	31.2	7.682
	Point 9A	71	22.5	36.854	38.328	29	43.7	8.954	40	65.519	68.140	29	43.7	15.918	31	49.453	51.431	26.75	41.45	11.396
	Point 9B	46	17	28.162	29.289	30	44.7	6.999	30	41.521	43.181	16.5	31.2	7.202	40	55.361	57.575	16.5	31.2	9.603
	Point 33	42	14	23.706	24.654	32	46.7	6.155	26	34.513	35.893	14	28.7	5.507	40	52.865	54.979	13.75	28.45	8.361
	Point 38	36	13	21.536	22.397	30	44.7	5.352	25	31.403	32.659	11	25.7	4.487	40	50.245	52.255	11	25.7	7.179
	Point 43	31	9.5	15.200	15.808	27	41.7	3.524	25	30.156	31.363	9	23.7	3.973	44	53.075	55.198	9	23.7	6.993
Total Oxygen Injected per Day (LBS)		49.332						58.620						60.685						
Injection Bank 5	Point 5A	65	25	39.275	40.846	25.5	40.2	8.778	27	42.153	43.839	25	39.7	9.303	29	45.275	47.086	25	39.7	9.993
	Point 5B	46	23	31.832	33.106	16.5	31.2	5.521	30	41.187	42.834	16	30.7	7.030	34	46.678	48.545	16	30.7	7.967
	Point 10	56	22	32.456	33.754	20.75	35.45	6.397	30	44.102	45.866	20.5	35.2	8.630	33	48.340	50.273	20.25	34.95	9.392
	Point 34	41	25	32.749	34.059	13.25	27.95	5.089	25	35.151	36.557	17.5	32.2	6.292	36	46.735	48.604	12.75	27.45	7.132
	Point 39	26	26	30.010	31.211	7	21.7	3.620	27	30.803	32.035	6.5	21.2	3.630	37	42.707	44.415	7	21.7	5.152
	Point 44	36	26	32.975	34.294	11.5	26.2	4.803	26	32.659	33.966	11	25.7	4.666	40	50.489	52.508	11.25	25.95	7.284
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		34.208						39.553						46.920						
System Total Per Day (LBS)		278.53						265.05						265.46						

Appendix J
Table J1
Q4 2009 Operational Data
33 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2009 43,609 lbs

Operational Days	Oxygen Injected Per Month
Month 1 Jul-09	31
Month 2 Nov-09	27
Month 3 Dec-09	28
Total Operational Days in Q4 2009	86
Total Oxygen injected during Q4 2009 (Lbs)	23,438.18
Running total of Injected Oxygen (Lbs)	67,046.93

Notes:

SCFH (M) = Measured flow rate
 SCFH (C) = Flow rate converted for oxygen (Flow meters are calibrated for air)
 CF/D (V) = Volume of oxygen injected per day
 PSI (M) = Measured pressure
 PSia (P) = Pressure converted to atmospheric pressure.
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant = 10.73 ((psi)*(ft^3))/((moles)(T))

System Operating Specs

Total of 8 injection banks
 Oxygen is injected for 13 minutes during each injection cycle
 Each Injection bank operates for 3 injection cycles per day
 Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 Cycles)
 * Cooper Lane section (IB-6, IB7 and IB-8) was started in November 2009.

Example

Bank 1 starts at 7AM
 Bank 1 finishes injection at 7:13AM
 System is recharging from 7:13AM to 8:00AM
 Bank 3 starts injection at 9:00AM
 Bank 3 finishes injection at 9:13AM
 System is recharging from 9:13AM to 10:00AM
 Bank 4 starts injection at 10:00AM
 Bank 4 finishes injection at 10:13AM
 System is recharging from 10:13AM to 11:00PM
 Bank 5 starts injection at 11:00AM
 Bank 5 finishes injection at 11:13AM
 System is recharging from 11:13AM to 12:00PM
 Bank 6 starts injection at 12:00PM
 System is recharging from 12:13PM to 1:00PM
 (Keep repeating cycle for course of day)

System Down Time

11/21/09 - 12/15/09 - Intermittent service interruption due to a faulty check valve - Duration - approximately 7 days.

Injection Bank	Depth	10/26/2009										11/25/2009										12/22/2009									
		95										95										92.5									
		10.73										10.73										10.73									
Temp R (T)		530										530										530									
Point	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs 02	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs 02	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs 02												
Injection Bank 1	Point 1A	62	32	49.006	50.966	23.5	38.2	10.407	32	48.684	31.645	23	37.7	6.377	30	45.641	29.667	23	37.7	5.821											
	Point 1B	46	32	43.932	45.690	16	30.7	7.498	30	41.187	26.771	16	30.7	4.393	30	41.187	26.771	16	30.7	4.278											
	Point 6A	65	36	56.203	58.452	25	39.7	12.405	30	46.836	30.444	25	39.7	6.461	32	49.959	32.473	25	39.7	6.710											
	Point 6B	46	27	37.068	38.551	16	30.7	6.327	26	35.985	23.990	16.5	31.2	3.901	26	36.272	23.577	17	31.7	3.890											
	Point 11	46	34	46.678	48.545	16	30.7	7.967	30	41.521	26.988	16.5	31.2	4.501	32	44.642	29.017	17	31.7	4.788											
	Point 35	41	26	33.906	35.262	13	27.7	5.221	32	41.731	27.125	13	27.7	4.016	32	42.106	27.369	13.5	28.2	4.017											
Point 40	41	37	45.563	47.386	10	24.7	6.257	28	36.842	23.948	13.5	28.2	3.610	34	45.132	29.336	14	28.7	4.382												
Point 45	31	27	35.840	37.274	14	28.7	5.719	26	31.363	20.386	9	23.7	2.583	32	39.005	25.353	9.5	24.2	3.194												
Total Oxygen Injected per Day (LBS)		61.800							35.843							37.080															
Injection Bank 2	Point 2A	67	34	53.745	55.895	26	40.7	12.161	36	56.203	36.532	25	39.7	7.753	28	44.261	28.770	26	40.7	6.095											
	Point 2B	46	28	39.062	40.624	17	31.7	6.884	34	47.432	30.831	17	31.7	5.224	32	44.642	29.017	17	31.7	4.788											
	Point 7A	65	36	56.203	58.452	25	39.7	12.405	36	56.203	36.532	25	39.7	7.753	34	53.081	34.503	25	39.7	7.130											
	Point 7B	46	27	37.963	39.481	17.5	32.2	6.796	36	50.222	32.645	17	31.7	5.532	32	44.993	29.245	17.5	32.2	4.901											
	Point 12	46	32	44.642	46.428	17	31.7	7.867	35	48.827	31.738	17	31.7	5.378	30	41.852	27.204	17	31.7	4.489											
	Point 36	36	28	39.062	40.624	17	31.7	6.884	35	43.964	28.577	11	25.7	3.926	33	41.452	26.944	11	25.7	3.604											
Point 41	41	25	33.185	34.513	14	28.7	5.295	35	46.459	30.199	14	28.7	4.633	31	41.150	26.747	14	28.7	3.996												
Point 46	36	27	34.569	35.952	12	26.7	5.131	36	45.220	29.393	11	25.7	4.038	28	35.512	23.083	11.5	26.2	3.148												
Total Oxygen Injected per Day (LBS)		63.423							44.237							38.149															
Injection Bank 3	Point 3A	24.75	34	53.081	55.204	25	39.7	11.716	28	43.714	28.414	25	39.7	6.030	28	43.714	28.414	25	39.7	5.871											
	Point 3B	16.5	26	35.985	37.424	16.5	31.2	6.242	25	34.600	22.490	16.5	31.2	3.751	30	41.521	26.988	16.5	31.2	4.383											
	Point 8A	28.5	42	69.187	71.955	29.5	44.2	17.001	28	45.600	29.640	28.5	43.2	6.845	26	42.343	27.523	28.5	43.2	6.189											
	Point 8B	16.5	27	37.963	38.863	16.5	31.2	6.482	24	33.216	21.591	16.5	31.2	3.601	30	41.521	26.988	16.5	31.2	4.383											
	Point 32A	24.25	32	49.643	51.629	24.5	39.2	10.819	26	40.077	26.050	24	38.7	5.399	26	40.077	26.050	24	38.7	5.247											
	Point 32B	11.5	30	38.048	39.570	11.5	26.2	5.542	23	28.991	18.779	11	25.7	2.580	33	41.853	27.205	11.5	26.2	3.710											
Point 37	13.5	27	35.527	36.948	13.5	28.2	5.570	26	33.906	22.039	13	27.7	3.263	28	36.842	23.948	13.5	28.2	3.515												
Point 42	11.75	31	39.317	40.889	11.5	26.2	5.727	28	35.512	23.083	11.5	26.2	3.233	30	38.410	24.966	12	26.7	3.470												
Total Oxygen Injected per Day (LBS)		69.097							34.692							36.767															
Injection Bank 4	Point 4A	69	30	48.001	49.921	27	41.7	11.128	22	34.989	22.743	26.5	41.2	5.009	26	41.601	27.041	27	41.7	5.869											
	Point 4B	46	31	43.247	44.977	17	31.7	7.622	24	33.216	21.591	16.5	31.2	3.601	32	44.642	29.017	17	31.7	4.788											
	Point 9A	71	29	43.826	45.579	22.5	37.2	9.064	22	33.911	22.042	24	38.7	4.560	28	44.801	29.121	27	41.7	6.321											
	Point 9B	46	30	41.852	43.526	17	31.7	7.376	20	27.680	17.922	16.5	31.2	3.001	30	41.852	27.204	17	31.7	4.489											
	Point 33	42	32	42.477	44.176	14	28.7	6.777	22	29.203	18.982	14	28.7	2.912	35	46.459	30.199	14	28.7	4.511											
	Point 38	36	30	39.122	40.687	13	27.7	6.025	36	45.220	29.393	11	25.7	4.038	80	102.426	66.577	12	26.7	9.252											
Point 43	31	27	32.911	34.227	9.5	24.2	4.428	43	52.413	34.069	9.5	24.2	4.407	25	30.473	19.807	9.5	24.2	2.495												
Total Oxygen Injected per Day (LBS)		52.419							27.528							37.724															
Injection Bank 5	Point 5A	65	25	39.275	40.846	25.5	40.2	8.778	20	30.225	19.646	22.5	37.2	3.907	28	43.714	28.414	25	39.7	5.871											
	Point 5B	46	23	31.832	33.106	16.5	31.2	5.521	18	24.712	16.063	16	30.7	2.636	28	38.441	24.987	16	30.7	3.993											
	Point 10	56	22	32.456	33.754	20.75	35.45	6.397	16	23.014	14.959	19	33.7	2.695	30	44.102	28.666	20.5	35.2	5.252											
	Point 34	41	25	32.749	34.059	13.25	27.95	5.089	26	33.906	22.039	13	27.7	3.263	32	42.106	27.369	13.5	28.2	4.017											
	Point 39	26	26	30.010	31.211	7	21.7	3.620	28	32.319	21.007	7	21.7	2.437	32	36.936	24.008	7	21.7	2.712											
	Point 44	36	26	32.975	34.294	11.5	26.2	4.803	27	33.915	22.045	11	25.7	3.029	32	40.970	26.631	12	26.7	3.701											
Total Oxygen Injected per Day (LBS)		34.208							17.967							25.546															
Injection Bank 6	Point 16	40	-	-	-	-	-	-	23	31.058	20.188	15	29.7	3.205	22	29.957	19.472	15.5	30.2	3.061											
	Point 19	40	-	-	-	-	-	-	22	29.456	19.147	14.5	29.2	2.989	25	33.473	21.758	14.5	29.2	3.307											
	Point 22	40	-	-	-	-	-	-	20	26.779	17.406	14.5	29.2	2.717	24	32.134	20.887	14.5	29.2	3.175											
	Point 25A	60	-	-	-	-	-	-	20	30.828	20.038	24	38.7	4.145	26	40.077	26.050	24	38.7	5.247											
	Point 25B	29	-	-	-	-	-	-	26	32.017	20.811	10	24.7	2.748	26	32.017	20.811	10	24.7	2.676											
	Point 28	50	-	-	-	-	-	-	16	23.014	14.959	19	33.7	2.695	24	34.522	22.439	19	33.7	3.936											
Point 31A	69	-	-	-	-	-	-	22	35.411	23.017	27.5	42.2	5.192	26	41.850	27.202	27.5	42.2	5.975												
Point 31B	40	-	-	-	-	-	-	22	29.456	19.147	14.5	29.2	2.989	28	37.810	24.576	15	29.7	3.799												
Total Oxygen Injected per Day (LBS)		0.000							26.680							31.175															
Injection Bank 7	Point 14	39	-	-	-	-	-	-	30	40.510	26.332	15	29.7	4.181	30	40.850	26.552	15.5	30.2	4.174											
	Point 17	40	-	-	-	-	-	-	30	38.768	25.199	12.5	27.2	3.664	30	38.768	25.199	12.5	27.2	3.568											
	Point 20	40	-	-	-	-	-	-	28	37.810	24.576	15	29.7	3.902	30	40.510	26.332	15	29.7	4.071											
	Point 23	40	-	-	-	-	-	-	30	40.168	26.109	14.5	29.2	4.075	30	40.168	26.109	14.5	29.2	3.968											
	Point 26A	60	-	-	-	-	-	-	30	45.943	29.863	23.5	38.2	6.098	30	45.943	29.863	23.5	38.2	5.938											
	Point 26B	29	-	-	-	-	-	-	16	20.865	13.562	13	27.7	2.008	32	41.731	27.125	13	27.7	3.911											
Point 29A	66	-	-	-	-	-	-	23	36.801	23.921	27	41.7	5.332	26	41.099	26.715	26	40.7	5.659												
Point 29B	40	-	-	-	-	-	-	0	0.000	0.000	9	23.7	0.000	26	35.109	22.821	15	29.7	3.528												
Total Oxygen Injected per Day (LBS)		0.000							29.260							34.815															
Injection Bank 8	Point 13	40	-	-	-	-	-	-	36	45.220	29.393	11	25.7	4.038	34	45.132	29.336	14	28.7	4.382											
	Point 15	40	-	-	-	-	-	-	26	35.109	22.821	15	29.7	3.623	28	37.810	24.576	15	29.7	3.799											
	Point 18	40	-	-	-	-	-	-	30	40.510	26.332	15	29.7	4.181	-</																

Appendix J
Table J2
Q1 2009 Operational Data
34 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2008 0 lbs

Operational Days		Oxygen Injected Per Month
Month 1	Jan-09	10
Month 2	Feb-09	28
Month 3	Mar-09	31
Total Operational Days In Q1 2009		69
Total Oxygen in Q1 2009 (Lbs)		19,047.27
Running Total Through Q1 2009 (Lbs)		19,047.27

Notes:

SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
 CF/D (V) = Volume of oxygen injected per day
 PSI (M) = Measured pressure
 PSia (P) = Pressure converted to atmospheric pressure.
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (0.73)

System Operating Specs

Total of 6 injection banks
 Oxygen is injected for 13 minutes during each injection cycle
 Each Injection bank operates for 4 injection cycles per day
 Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example

Bank 1 starts at 7AM
 Bank 1 finishes injection at 7:13AM
 System is recharging 7:13AM to 8:00AM
 Bank 3 starts injection at 9:00AM
 Bank 3 finishes injection at 9:13AM
 System is recharging from 9:13AM to 10:00AM
 Bank 4 starts injection at 10:00AM
 Bank 4 finishes injection at 10:13AM
 System is recharging from 10:13AM to 11:00PM
 Bank 5 starts injection at 11:00AM
 Bank 5 finishes injection at 11:13AM
 System is recharging from 11:13AM to 12:00PM
 Bank 6 starts injection at 12:00PM
 System is recharging from 12:13PM to 100PM
 (Keep repeating cycle for course of day)

		1/30/2009						2/26/2009						3/4/2009							
		95						95						95							
		10.73						10.73						10.73							
		530						530						530							
		R						R						R							
		Temp R (T)						Temp R (T)						Temp R (T)							
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2		
Injection Bank 1	Point 1A	65	32	51.508	44.640	27.5	42.2	10.070	33	52.802	45.761	27.0	41.7	10.201	32	51.202	44.375	27.0	41.7	9.892	
	Point 1B	45	32	45.341	39.295	18.0	32.7	6.869	30	42.181	36.557	17.5	32.2	6.292	34	47.805	41.431	17.5	32.2	7.131	
	Point 2	30	30	39.122	33.906	13.0	27.7	5.021	38	49.555	42.948	13.0	27.7	6.359	32	41.731	36.167	13.0	27.7	5.355	
	Point 13A	65	34	52.408	45.420	24.0	38.7	9.396	29	44.989	38.990	24.5	39.2	8.170	34	52.746	45.713	24.5	39.2	9.579	
	Point 13B	45	33	45.673	39.583	16.5	31.2	6.602	30	41.187	35.695	16.0	30.7	5.858	30	41.521	35.985	16.5	31.2	6.002	
	Point 14	30	30	36.943	32.017	10.0	24.7	4.227	36	44.332	38.421	10.0	24.7	5.073	33	40.638	35.219	10.0	24.7	4.650	
	Point 25A	45	32	44.642	38.690	17.0	31.7	6.556	28	39.062	33.854	17.0	31.7	5.737	32	43.932	38.075	16.0	30.7	6.248	
	Point 25B	30	30	37.315	32.340	10.5	25.2	4.356	36	44.778	38.808	10.5	25.2	5.228	33	40.638	35.219	10.0	24.7	4.650	
Total Oxygen Injected per Day (LBS)		53.098						52.918						53.508							
Injection Bank 2	Point 3A	65	32	51.202	44.375	27.0	41.7	9.892	29	45.842	39.729	26.0	40.7	8.644	32	50.584	43.839	26.0	40.7	9.538	
	Point 3B	45	32	43.211	37.449	15.0	29.7	5.946	31	41.861	36.279	15.0	29.7	5.760	32	43.211	37.449	15.0	29.7	5.946	
	Point 4	30	33	41.047	35.574	10.5	25.2	4.792	34	42.291	36.652	10.5	25.2	4.937	35	43.534	37.730	10.5	25.2	5.083	
	Point 15A	65	31	48.397	41.944	25.0	39.7	8.901	32	49.643	43.024	24.5	39.2	9.016	30	46.540	40.335	24.5	39.2	8.452	
	Point 15B	45	32	44.642	38.690	17.0	31.7	6.556	34	47.057	40.782	16.5	31.2	6.802	34	47.057	40.782	16.5	31.2	6.802	
	Point 16	30	30	36.943	32.017	10.0	24.7	4.227	30	36.567	31.692	9.5	24.2	4.100	34	41.443	35.917	9.5	24.2	4.646	
	Point 26A	45	30	41.521	35.985	16.5	31.2	6.002	32	43.932	38.075	16.0	30.7	6.248	32	44.289	38.383	16.5	31.2	6.402	
	Point 26B	30	30	37.315	32.340	10.5	25.2	4.356	34	42.291	36.652	10.5	25.2	4.937	31	38.559	33.418	10.5	25.2	4.502	
Total Oxygen Injected per Day (LBS)		50.673						50.444						51.370							
Injection Bank 3	Point 5A	65	30	48.574	42.097	28.0	42.7	9.609	30	48.288	41.850	27.5	42.2	9.441	34	54.727	47.430	27.5	42.2	10.699	
	Point 5B	45	30	41.521	35.985	16.5	31.2	6.002	34	47.057	40.782	16.5	31.2	6.802	38	52.593	45.580	16.5	31.2	7.602	
	Point 6	30	30	35.804	31.030	8.5	23.2	3.848	32	38.191	33.099	8.5	23.2	4.105	38	45.352	39.305	8.5	23.2	4.875	
	Point 17A	65	30	46.540	40.335	24.5	39.2	8.452	30	45.032	39.028	22.0	36.7	7.657	36	55.848	48.402	24.5	39.2	10.143	
	Point 17B	45	30	41.521	35.985	16.5	31.2	6.002	34	47.057	40.782	16.5	31.2	6.802	37	51.209	44.381	16.5	31.2	7.402	
	Point 18	30	30	36.943	32.017	10.0	24.7	4.227	32	39.406	34.152	10.0	24.7	4.509	37	45.563	39.488	10.0	24.7	5.214	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		38.140						39.315						45.934							
Injection Bank 4	Point 7A	65	33	52.802	45.761	27.0	41.7	10.201	32	50.894	44.108	26.5	41.2	9.714	42	66.798	57.892	26.5	41.2	12.750	
	Point 7B	45	30	41.852	36.272	17.0	31.7	6.146	32	44.642	38.690	17.0	31.7	6.556	40	55.803	48.362	17.0	31.7	8.195	
	Point 8	30	32	39.803	34.496	10.5	25.2	4.647	30	36.943	32.017	10.0	24.7	4.227	40	49.754	43.120	10.5	25.2	5.809	
	Point 19A	65	31	49.601	42.988	27.0	41.7	9.583	33	52.484	45.486	26.5	41.2	10.018	32	50.739	43.974	26.3	40.95	9.626	
	Point 19B	45	33	46.037	39.899	17.0	31.7	6.761	35	48.827	42.317	17.0	31.7	7.171	43	59.988	51.989	17.0	31.7	8.810	
	Point 20	30	34	42.291	36.652	10.5	25.2	4.937	40	49.258	42.690	10.0	24.7	5.637	44	54.729	47.432	10.5	25.2	6.390	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		42.275						43.323						51.579							
Injection Bank 5	Point 9A	65	33	53.117	46.035	27.5	42.2	10.385	32	51.202	44.375	27.0	41.7	9.892	29	46.401	40.215	27.0	41.7	8.964	
	Point 9B	45	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	
	Point 10	30	31	38.175	33.085	10.0	24.7	4.368	34	41.869	36.286	10.0	24.7	4.791	32	39.406	34.152	10.0	24.7	4.509	
	Point 21A	65	31	48.701	42.208	25.5	40.2	9.070	32	50.272	43.569	25.5	40.2	9.363	29	45.559	39.485	25.5	40.2	8.485	
	Point 21B	45	32	44.289	38.383	16.5	31.2	6.402	32	44.289	38.383	16.5	31.2	6.402	30	41.521	35.985	16.5	31.2	6.002	
	Point 22	30	31	38.559	33.418	10.5	25.2	4.502	34	41.869	36.286	10.0	24.7	4.791	29	35.712	30.950	10.0	24.7	4.087	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		34.727						35.238						32.047							
Injection Bank 6	Point 11A	65	28	44.532	38.594	26.5	41.2	8.500	40	63.230	54.799	26.0	40.7	11.922	42	66.391	57.539	26.0	40.7	12.519	
	Point 11B	45	28	38.753	33.586	16.5	31.2	5.602	38	52.593	45.580	16.5	31.2	7.602	38	52.593	45.580	16.5	31.2	7.602	
	Point 12	30	29	36.071	31.262	10.5	25.2	4.211	40	49.754	43.120	10.5	25.2	5.809	40	49.754	43.120	10.5	25.2	5.809	
	Point 23	65	30	48.001	41.601	27.0	41.7	9.273	33	52.484	45.486	26.5	41.2	10.018	32	50.894	44.108	26.5	41.2	9.714	
	Point 24A	55	30	44.724	38.761	21.5	36.2	7.501	40	59.632	51.681	21.5	36.2	10.001	40	59.632	51.681	21.5	36.2	10.001	
	Point 24B	30	30	37.315	32.340	10.5	25.2	4.356	38	47.266	40.964	10.5	25.2	5.518	36	44.778	38.808	10.5	25.2	5.228	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		39.443						50.870						50.872							
System Total Per Day (LBS)		258.36						272.11						285.31							

Appendix J
Table J2
Q2 2009 Operational Data
34 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2009 19,047 lbs

O2%
R
Temp R (T)

Operational Days		Oxygen Injected Per Month
Month 1	Apr-09	30
Month 2	May-09	31
Month 3	Jun-09	22
Total Operational Days In Q2 2009		83
Total Oxygen in Q2 2009 (Lbs)		19,898.39
Running Total Through Q2 2009 (Lbs)		38,945.66

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM

Bank 1 finishes injection at 7:13AM
System is recharging 7:13AM to 8:00AM
Bank 3 starts injection at 9:00AM
Bank 3 finishes injection at 9:13AM
System is recharging from 9:13AM to 10:00AM
Bank 4 starts injection at 10:00AM
Bank 4 finishes injection at 10:13AM
System is recharging from 10:13AM to 11:00PM
Bank 5 starts injection at 11:00AM

Bank 5 finishes injection at 11:13AM
System is recharging from 11:13AM to 12:00PM
Bank 6 starts injection at 12:00PM
System is recharging from 12:13PM to 100PM
(Keep repeating cycle for course of day)

	Depth	4/30/2009							5/18/2009							6/19/2009						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2			
		95							95							95						
		10.73							10.73							10.73						
		530							530							530						
Injection Bank 1	Point 1A	65	22	35.201	30.508	27	41.7	6.801	35	56.002	48.535	27	41.7	10.819	32	51.508	44.640	27.5	42.2	10.070		
	Point 1B	45	24	33.745	29.245	17.5	32.2	5.034	38	53.429	46.305	17.5	32.2	7.970	32	45.341	39.295	18	32.7	6.869		
	Point 2	30	18	23.473	20.344	13	27.7	3.012	40	52.632	45.614	13.5	28.2	6.876	28	36.842	31.930	13.5	28.2	4.813		
	Point 13A	65	34	53.081	46.004	25	39.7	9.763	28	43.438	37.646	24.5	39.2	7.889	32	49.643	43.024	24.5	39.2	9.016		
	Point 13B	45	20	27.680	23.990	16.5	31.2	4.001	39	54.408	47.153	17	31.7	7.990	33	46.037	39.899	17	31.7	6.761		
	Point 14	30	18	22.166	19.210	10	24.7	2.536	39	48.510	42.042	10.5	25.2	5.663	32	39.406	34.152	10	24.7	4.509		
	Point 25A	45	28	39.062	33.854	17	31.7	5.737	30	42.181	36.557	17.5	32.2	6.292	30	42.181	36.557	17.5	32.2	6.292		
	Point 25B	30	24	29.852	25.872	10.5	25.2	3.485	38	47.266	40.964	10.5	25.2	5.518	36	44.778	38.808	10.5	25.2	5.228		
Total Oxygen Injected per Day (LBS)		40.369							59.019							53.559						
Injection Bank 2	Point 3A	65	28	44.261	38.359	26	40.7	8.346	31	49.303	42.729	26.5	41.2	9.411	29	46.401	40.215	27	41.7	8.964		
	Point 3B	45	28	37.810	32.768	15	29.7	5.202	34	45.912	39.790	15	29.7	6.317	30	40.510	35.109	15	29.7	5.574		
	Point 4	30	24	29.852	25.872	10.5	25.2	3.485	32	39.803	34.496	10.5	25.2	4.647	26	32.340	28.028	10.5	25.2	3.776		
	Point 15A	65	30	46.243	40.077	24	38.7	8.291	30	46.540	40.335	24.5	39.2	8.452	29	44.989	38.990	24.5	39.2	8.170		
	Point 15B	45	30	41.852	36.272	17	31.7	6.146	32	44.642	38.690	17	31.7	6.556	28	39.062	33.854	17	31.7	5.737		
	Point 16	30	22	27.092	23.479	10	24.7	3.100	35	42.662	36.974	9.5	24.2	4.783	27	33.249	28.816	10	24.7	3.805		
	Point 26A	45	28	39.062	33.854	17	31.7	5.737	32	44.642	38.690	17	31.7	6.556	29	40.457	35.063	17	31.7	5.942		
	Point 26B	30	24	36.994	32.061	24	38.7	6.633	28	43.438	37.646	24.5	39.2	7.889	31	47.474	41.144	23.5	38.2	8.402		
Total Oxygen Injected per Day (LBS)		46.940							54.611							50.369						
Injection Bank 3	Point 5A	65	22	35.411	30.690	27.5	42.2	6.923	30	48.288	41.850	27.5	42.2	9.441	23	37.240	32.274	28	42.7	7.367		
	Point 5B	45	18	25.111	21.763	17	31.7	3.688	34	47.057	40.782	16.5	31.2	6.802	25	34.877	30.226	17	31.7	5.122		
	Point 6	30	24	28.333	24.555	8	22.7	2.980	31	36.997	32.064	8.5	23.2	3.977	27	32.569	28.226	9	23.7	3.576		
	Point 17A	65	24	37.232	32.268	24.5	39.2	6.762	30	46.540	40.335	24.5	39.2	8.452	28	43.438	37.646	24.5	39.2	7.889		
	Point 17B	45	18	25.111	21.763	17	31.7	3.688	32	44.289	38.383	16.5	31.2	6.402	26	36.272	31.435	17	31.7	5.327		
	Point 18	30	24	29.555	25.614	10	24.7	3.382	32	39.605	34.324	10.25	24.95	4.578	24	29.852	25.872	10.5	25.2	3.485		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Oxygen Injected per Day (LBS)		27.422							39.651							32.766						
Injection Bank 4	Point 7A	65	20	31.809	27.567	26.5	41.2	6.071	33	52.802	45.761	27	41.7	10.201	29	46.401	40.215	27	41.7	8.964		
	Point 7B	45	22	30.691	26.599	17	31.7	4.507	32	44.642	38.690	17	31.7	6.556	28	39.062	33.854	17	31.7	5.737		
	Point 8	30	18	22.389	19.404	10.5	25.2	2.614	34	42.708	37.014	11	25.7	5.085	28	35.171	30.482	11	25.7	4.188		
	Point 19A	65	32	50.894	44.108	26.5	41.2	9.714	30	47.713	41.351	26.5	41.2	9.107	26	41.351	35.838	26.5	41.2	7.993		
	Point 19B	45	20	27.901	24.181	17	31.7	4.098	32	44.642	38.690	17	31.7	6.556	26	36.272	31.435	17	31.7	5.327		
	Point 20	30	20	24.877	21.560	10.5	25.2	2.904	35	43.534	37.730	10.5	25.2	5.083	28	34.828	30.184	10.5	25.2	4.066		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Oxygen Injected per Day (LBS)		29.909							42.588							36.175						
Injection Bank 5	Point 9A	65	30	48.001	41.601	27	41.7	9.273	29	46.401	40.215	27	41.7	8.964	27	43.201	37.441	27	41.7	8.346		
	Point 9B	45	0	0.000	0.000	0	14.7	0.000	0	0.000	0.000	0	14.7	0.000	0	0.000	0.000	0	14.7	0.000		
	Point 10	30	28	34.480	29.883	10	24.7	3.946	30	36.943	32.017	10	24.7	4.227	29	35.892	31.106	10.25	24.95	4.149		
	Point 21A	65	28	44.261	38.359	26	40.7	8.346	26	40.846	35.400	25.5	40.2	7.607	28	43.988	38.123	25.5	40.2	8.192		
	Point 21B	45	26	35.985	31.187	16.5	31.2	5.201	28	38.753	33.586	16.5	31.2	5.602	25	34.739	30.107	16.75	31.45	5.062		
	Point 22	30	28	32.319	28.009	7	21.7	3.249	28	33.055	28.648	8	22.7	3.476	27	27.339	23.694	2	16.7	2.115		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Oxygen Injected per Day (LBS)		30.015							29.877							27.864						
Injection Bank 6	Point 11A	65	26	41.351	35.838	26.5	41.2	7.893	31	49.003	42.469	26	40.7	9.240	25	39.761	34.459	26.5	41.2	7.589		
	Point 11B	45	26	36.272	31.435	17	31.7	5.327	22	30.691	26.599	17	31.7	4.507	28	39.062	33.854	17	31.7	5.737		
	Point 12	30	28	34.480	29.883	10	24.7	3.946	32	39.803	34.496	10.5	25.2	4.647	27	33.750	29.250	10.75	25.45	3.979		
	Point 23	65	34	54.402	47.148	27	41.7	10.510	26	41.601	36.054	27	41.7	8.037	39	62.402	54.082	27	41.7	12.055		
	Point 24A	55	30	44.724	38.761	21.5	36.2	7.501	30	45.032	39.028	22	36.7	7.657	25	37.526	32.523	22	36.7	6.380		
	Point 24B	30	30	36.943	32.017	10	24.7	4.227	30	37.315	32.340	10.5	25.2	4.356	26	32.500	28.167	10.75	25.45	3.832		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Oxygen Injected per Day (LBS)		39.403							38.444							39.573						
System Total Per Day (LBS)		214.06							264.19							240.31						

Appendix J
Table J2
Q3 2009 Operational Data
34 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2009 38,946 lbs

Operational Days		Oxygen Injected Per Month
Month 1	Jul-09	30
Month 2	Aug-09	31
Month 3	Sep-09	30
Total Operational Days In Q3 2009		91
Total Oxygen in Q3 2009 (Lbs)		24,098.03
Running Total Through Q3 2009 (Lbs)		63,043.69

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM

Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100PM
Bank 5 starts injection at 1100AM

Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

System was down on 7/2/09 due to an unknown compressor alarm.

	Depth	7/27/2009						8/17/2009						9/23/2009							
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
		O2% 95																			
		R 10.73																			
		Temp R (T) 530																			
Injection Bank 1	Point 1A	65	65	104.625	90.675	27.5	42.2	20.455	42	67.202	58.242	27	41.7	12.983	30	48.001	41.601	27	41.7	9.273	
	Point 1B	45	30	42.181	36.557	17.5	32.2	6.292	33	46.037	39.899	17	31.7	6.761	35	48.827	42.317	17	31.7	7.171	
	Point 2	30	28	36.514	31.646	13	27.7	4.686	32	41.731	36.167	13	27.7	5.355	36	46.947	40.687	13	27.7	6.025	
	Point 13A	65	40	62.054	53.780	24.5	39.2	11.269	35	54.297	47.057	24.5	39.2	9.861	27	41.484	35.952	23.75	38.45	7.390	
	Point 13B	45	30	41.852	36.272	17	31.7	6.146	32	43.932	38.075	16	30.7	6.248	31	42.559	36.885	16	30.7	6.053	
	Point 14	30	30	37.315	32.340	10.5	25.2	4.356	30	36.943	32.017	10	24.7	4.227	35	43.100	37.354	10	24.7	4.932	
	Point 25A	45	26	36.557	31.682	17.5	32.2	5.453	31	43.247	37.481	17	31.7	6.351	33	45.673	39.583	16.5	31.2	6.602	
	Point 25B	30	34	42.291	36.652	10.5	25.2	4.937	30	36.943	32.017	10	24.7	4.227	35	43.100	37.354	10	24.7	4.932	
Total Oxygen Injected per Day (LBS)		63.596						56.015						52.378							
Injection Bank 2	Point 3A	65	28	44.261	38.359	26	40.7	8.346	30	47.422	41.099	26	40.7	8.942	34	53.745	46.579	26	40.7	10.134	
	Point 3B	45	27	36.459	31.598	15	29.7	5.017	32	43.211	37.449	15	29.7	5.946	34	45.912	39.790	15	29.7	6.317	
	Point 4	30	25	31.096	26.950	10.5	25.2	3.630	28	34.828	30.184	10.5	25.2	4.066	36	44.332	38.421	10	24.7	5.073	
	Point 15A	65	24	37.469	32.473	25	39.7	6.891	31	48.092	41.679	24.5	39.2	8.734	41	63.605	55.124	24.5	39.2	11.551	
	Point 15B	45	28	39.062	33.854	17	31.7	5.737	32	44.289	38.383	16.5	31.2	6.402	35	48.441	41.982	16.5	31.2	7.002	
	Point 16	30	25	30.786	26.681	10	24.7	3.523	32	39.005	33.805	9.5	24.2	4.373	35	42.662	36.974	9.5	24.2	4.783	
	Point 26A	45	30	39.822	34.513	14	28.7	5.295	30	38.048	32.975	11.5	26.2	4.618	31	41.861	36.279	15	29.7	5.760	
	Point 26B	30	38	53.012	45.944	17	31.7	7.786	31	41.150	35.663	14	28.7	5.471	30	42.507	36.839	18	32.7	6.440	
Total Oxygen Injected per Day (LBS)		46.224						48.552						57.060							
Injection Bank 3	Point 5A	65	25	40.240	34.875	27.5	42.2	7.867	34	55.371	47.989	28.5	43.2	11.082	38	61.165	53.010	27.5	42.2	11.958	
	Point 5B	45	25	34.877	30.226	17	31.7	5.122	30	41.521	35.985	16.5	31.2	6.002	45	62.031	53.760	16.25	30.95	8.894	
	Point 6	30	28	33.775	29.272	9	23.7	3.708	25	29.513	25.578	8	22.7	3.104	41	48.402	41.948	8	22.7	5.090	
	Point 17A	65	28	43.438	37.646	24.5	39.2	7.889	36	54.769	47.467	23	37.7	9.566	41	63.402	54.948	24.25	38.95	11.441	
	Point 17B	45	25	34.877	30.226	17	31.7	5.122	30	41.521	35.985	16.5	31.2	6.002	47	64.788	56.149	16.25	30.95	9.290	
	Point 18	30	25	31.096	26.950	10.5	25.2	3.630	26	32.017	27.748	10	24.7	3.664	45	55.134	47.783	9.75	24.45	6.245	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		33.339						39.419						52.919							
Injection Bank 4	Point 7A	65	30	48.001	41.601	27	41.7	9.273	32	51.202	44.375	27	41.7	9.892	38	60.436	52.378	26.5	41.2	11.536	
	Point 7B	45	30	41.852	36.272	17	31.7	6.146	27	37.667	32.645	17	31.7	5.532	37	51.209	44.381	16.5	31.2	7.402	
	Point 8	30	30	37.684	32.659	11	25.7	4.487	24	29.852	25.872	10.5	25.2	3.485	36	44.778	38.808	10.5	25.2	5.228	
	Point 19A	65	26	41.351	35.838	26.5	41.2	7.893	31	49.601	42.988	27	41.7	9.583	40	63.230	54.799	26	40.7	11.922	
	Point 19B	45	28	39.062	33.854	17	31.7	5.737	27	37.667	32.645	17	31.7	5.532	40	55.361	47.979	16.5	31.2	8.002	
	Point 20	30	32	39.803	34.496	10.5	25.2	4.647	23	28.323	24.547	10	24.7	3.241	38	46.795	40.555	10	24.7	5.355	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		38.183						37.264						49.445							
Injection Bank 5	Point 9A	65	30	48.001	41.601	27	41.7	9.273	30	48.001	41.601	27	41.7	9.273	40	64.002	55.468	27	41.7	12.365	
	Point 9B	45	0	0.000	0.000	0	14.7	0.000	0	0.000	0.000	35	49.7	0.000	0	0.000	0.000	0	14.7	0.000	
	Point 10	30	32	39.406	34.152	10	24.7	4.509	33	40.224	34.861	9.5	24.2	4.510	45	54.851	47.538	9.5	24.2	6.150	
	Point 21A	65	30	47.422	41.099	26	40.7	8.942	30	46.836	40.591	25	39.7	8.614	40	62.448	54.122	25	39.7	11.486	
	Point 21B	45	25	34.877	30.226	17	31.7	5.122	25	34.600	29.987	16.5	31.2	5.001	40	54.915	47.593	16	30.7	7.811	
	Point 22	30	0	0.000	0.000	0	14.7	0.000	0	0.000	0.000	0	14.7	0.000	0	0.000	0.000	0	14.7	0.000	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		27.847						27.399						37.811							
Injection Bank 6	Point 11A	65	28	44.532	38.594	26.5	41.2	8.500	22	34.562	29.954	25.5	40.2	6.437	40	63.617	55.135	26.5	41.2	12.143	
	Point 11B	45	30	41.852	36.272	17	31.7	6.146	16	22.144	19.192	16.5	31.2	3.201	37	51.209	44.381	16.5	31.2	7.402	
	Point 12	30	32	39.803	34.496	10.5	25.2	4.647	24	29.555	25.614	10	24.7	3.382	36	44.332	38.421	10	24.7	5.073	
	Point 23	65	48	76.802	66.562	27	41.7	14.837	32	50.894	44.108	26.5	41.2	9.714	36	57.255	49.621	26.5	41.2	10.929	
	Point 24A	55	30	45.032	39.028	22	36.7	7.657	22	32.798	28.425	21.5	36.2	5.500	40	59.632	51.681	21.5	36.2	10.001	
	Point 24B	30	30	37.315	32.340	10.5	25.2	4.356	22	27.092	23.479	10	24.7	3.100	33	41.047	35.574	10.5	25.2	4.792	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		46.144						31.335						50.339							
System Total Per Day (LBS)		255.33						239.98						299.95							

Appendix J
Table J2
Q4 2009 Operational Data
34 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2009 63,044 lbs

Operational Days		Oxygen Injected Per Month
Month 1	Oct-09	30
Month 2	Nov-09	30
Month 3	Dec-09	31
Total Operational Days In Q4 2009		91
Total Oxygen injected during Q4 2009 (Lbs)		23,447.77
Running total of Injected Oxygen (Lbs)		86,491.46

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (10.73 ((psi)(ft^3))/(moles)(T))

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM

Bank 1 finishes injection at 7:13AM
System is recharging 7:13AM to 8:00AM
System is recharging 8:13AM to 9:00AM
Bank 3 starts injection at 9:00AM
Bank 3 finishes injection at 9:13AM
System is recharging from 9:13AM to 10:00AM
Bank 4 starts injection at 10:00AM
Bank 4 finishes injection at 10:13AM
System is recharging from 10:13AM to 11:00PM
Bank 5 starts injection at 11:00AM

Bank 5 finishes injection at 11:13AM
System is recharging from 11:13AM to 12:00PM
Bank 6 starts injection at 12:00PM
System is recharging from 12:13PM to 1:00PM
(Keep repeating cycle for course of day)

System Down Time
10/20/09 - Power Outage - Duration 1 day

		10/26/2009						11/20/2009						12/29/2010						
		91.2						97						92.1						
		10.73						10.73						10.73						
		530						530						530						
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs 02	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs 02	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs 02
Injection Bank 1	Point 1A	65	36	57.602	49.921	27	41.7	10.683	18	28.801	24.961	27	41.7	5.681	35	56.002	48.535	27	41.7	10.489
	Point 1B	45	36	50.617	43.868	17.5	32.2	7.249	18	25.111	21.763	17	31.7	3.766	32	44.993	38.994	17.5	32.2	6.507
	Point 2	30	34	44.339	38.427	13	27.7	5.462	26	33.906	29.385	13	27.7	4.443	40	52.632	45.614	13.5	28.2	6.666
	Point 13A	65	36	55.491	48.092	24	38.7	9.551	26	40.077	34.733	24	38.7	7.337	40	62.054	53.780	24.5	39.2	10.925
	Point 13B	45	34	47.057	40.782	16.5	31.2	6.530	25	34.322	29.746	16	30.7	4.984	38	52.593	45.580	16.5	31.2	7.370
	Point 14	30	34	41.869	36.286	10	24.7	4.599	27	33.249	28.816	10	24.7	3.885	38	46.795	40.555	10	24.7	5.191
	Point 25A	45	36	50.222	43.526	17	31.7	7.081	32	44.642	38.690	17	31.7	6.694	38	53.012	45.944	17	31.7	7.548
	Point 25B	30	34	42.291	36.652	10.5	25.2	4.740	30	36.943	32.017	10	24.7	4.316	40	49.754	43.120	10.5	25.2	5.631
Total Oxygen Injected per Day (LBS)		55.895						41.106						60.328						
Injection Bank 2	Point 3A	65	36	56.907	49.319	26	40.7	10.301	30	47.422	41.099	26	40.7	9.130	30	47.422	41.099	26	40.7	8.669
	Point 3B	45	36	48.612	42.131	15	29.7	6.421	66	89.122	77.239	15	29.7	12.521	34	46.296	40.124	15.5	30.2	6.280
	Point 4	30	38	46.795	40.555	10	24.7	5.141	46	57.782	50.077	11	25.7	7.025	29	36.071	31.262	10.5	25.2	4.083
	Point 15A	65	38	58.574	50.764	24	38.7	10.082	35	53.950	46.756	24	38.7	9.876	26	40.077	34.733	24	38.7	6.966
	Point 15B	45	36	49.825	43.181	16.5	31.2	6.914	56	78.124	67.707	17	31.7	11.715	29	40.457	35.063	17	31.7	5.760
	Point 16	30	34	41.443	35.917	9.5	24.2	4.461	24	28.950	25.090	9	23.7	3.246	28	34.480	29.883	10	24.7	3.825
	Point 26A	45	36	49.424	42.834	16	30.7	6.748	26	35.109	30.428	15	29.7	4.933	33	46.037	39.899	17	31.7	6.555
	Point 26B	30	34	47.432	41.108	17	31.7	6.687	26	32.017	27.748	10	24.7	3.741	30	39.474	34.211	13.5	28.2	5.000
Total Oxygen Injected per Day (LBS)		56.755						62.186						47.137						
Injection Bank 3	Point 5A	65	30	46.243	40.077	24	38.7	7.959	36	57.602	49.921	27	41.7	11.362	32	51.508	44.640	27.5	42.2	9.763
	Point 5B	45	32	44.289	38.383	16.5	31.2	6.146	42	58.593	50.780	17	31.7	8.786	37	51.617	44.735	17	31.7	7.349
	Point 6	30	30	35.804	31.030	8.5	23.2	3.694	48	57.900	50.180	9	23.7	6.491	35	42.219	36.590	9	23.7	4.494
	Point 17A	65	32	43.211	37.449	15	29.7	5.708	32	48.684	42.193	23	37.7	8.682	35	54.297	47.057	24.5	39.2	9.560
	Point 17B	45	32	44.289	38.383	16.5	31.2	6.146	42	58.593	50.780	17	31.7	8.786	36	50.222	43.526	17	31.7	7.151
	Point 18	30	32	39.406	34.152	10	24.7	4.329	48	59.109	51.228	10	24.7	6.906	38	47.266	40.964	10.5	25.2	5.350
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		33.982						51.015						43.666						
Injection Bank 4	Point 7A	65	28	44.532	38.594	26.5	41.2	8.160	16	25.292	21.920	26	40.7	4.869	33	52.802	45.761	27	41.7	9.889
	Point 7B	45	30	41.852	36.272	17	31.7	5.901	18	25.111	21.763	17	31.7	3.766	32	44.818	38.842	17.25	32.0	6.431
	Point 8	30	28	34.828	30.184	10.5	25.2	3.903	16	19.703	17.076	10	24.7	2.302	38	47.733	41.368	11	25.7	5.510
	Point 19A	65	28	44.532	38.594	26.5	41.2	8.160	15	23.418	20.296	25	39.7	4.398	20	31.615	27.400	26	40.7	5.779
	Point 19B	45	32	44.642	38.690	17	31.7	6.294	20	27.901	24.181	17	31.7	4.184	37	52.023	45.087	17.5	32.2	7.524
	Point 20	30	30	36.943	32.017	10	24.7	4.058	18	22.166	19.210	10	24.7	2.590	38	47.266	40.964	10.5	25.2	5.350
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		36.476						22.109						40.483						
Injection Bank 5	Point 9A	65	40	63.617	55.135	26.5	41.2	11.657	25	40.001	34.668	27	41.7	7.891	35	56.002	48.535	27	41.7	10.489
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	42	51.720	44.824	10	24.7	5.682	30	36.943	32.017	10	24.7	4.316	35	43.100	37.354	10	24.7	4.782
	Point 21A	65	44	68.693	59.534	25	39.7	12.129	30	46.836	40.591	25	39.7	8.796	35	54.985	47.654	25.5	40.2	9.928
	Point 21B	45	42	58.129	50.378	16.5	31.2	8.066	26	35.695	30.936	16	30.7	5.184	35	48.827	42.317	17	31.7	6.952
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (moles)		37.534						26.186						32.150						
Injection Bank 6	Point 11A	65	36	56.907	49.319	26	40.7	10.301	25	39.519	34.250	26	40.7	7.608	32	50.584	43.839	26	40.7	9.247
	Point 11B	45	36	49.825	43.181	16.5	31.2	6.914	30	41.852	36.272	17	31.7	6.276	32	44.642	38.690	17	31.7	6.356
	Point 12	30	38	47.266	40.964	10.5	25.2	5.297	32	39.406	34.152	10	24.7	4.604	35	43.964	38.102	11	25.7	5.075
	Point 23	65	38	60.436	52.378	26.5	41.2	11.074	24	37.938	32.880	26	40.7	7.304	23	36.580	31.702	26.5	41.2	6.769
	Point 24A	55	38	56.650	49.097	21.5	36.2	9.121	28	42.030	36.426	22	36.7	7.297	30	45.032	39.028	22	36.7	7.423
	Point 24B	30	38	47.266	40.964	10.5	25.2	5.297	32	39.406	34.152	10	24.7	4.604	36	45.220	39.191	11	25.7	5.220
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		48.005						37.693						40.089						
System Total Per Day (LBS)		268.65						240.30						263.85						

Appendix J
Table J3
Q1 2009 Operational Data
9 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2008 0 lbs

O2%
R
Temp R (T)

Operational Days		Oxygen Injected Per Month
Month 1	Jan-09	0
Month 2	Feb-09	1732
Month 3	Mar-09	5541
Total Operational Days In Q1 2009		42
Total Oxygen in Q1 2009 (Lbs)		7,273.37
Running Total Through Q1 2009 (Lbs)		7,273.37

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM

Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100PM
Bank 5 starts injection at 1100AM

Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for coarse of day)

** Due to the request of the property owner, the system will not inject during the hours of 800AM and 830AM and 1100AM and 400PM.
The oxygen weights have been adjusted to incorporate this schedule.

	Depth	2/26/2009						3/9/2009												
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2							
Total Oxygen Injected per Day (LBS)		0.000						36.179						43.831						
Injection Bank 1	Point 1A	30	0	0.000	0.000	0	14.7	0.000	30	37.684	32.659	11.0	25.7	4.487	31	38.940	33.748	11.0	25.7	4.636
	Point 7A	30	0	0.000	0.000	0	14.7	0.000	30	36.943	32.017	10.0	24.7	4.227	38	46.795	40.555	10.0	24.7	5.355
	Point 7B	64	0	0.000	0.000	0	14.7	0.000	30	48.001	41.601	27.0	41.7	9.273	36	57.255	49.621	26.5	41.2	10.929
	Point 13A	25	0	0.000	0.000	0	14.7	0.000	30	35.024	30.354	7.5	22.2	3.602	34	39.694	34.401	7.5	22.2	4.082
	Point 13B	52	0	0.000	0.000	0	14.7	0.000	25	37.012	32.077	21.0	35.7	6.121	29	42.632	36.948	20.5	35.2	6.952
	Point 19A	25	0	0.000	0.000	0	14.7	0.000	22	25.972	22.509	8.0	22.7	2.731	28	33.055	28.648	8.0	22.7	3.476
	Point 19B	44	0	0.000	0.000	0	14.7	0.000	28	39.062	33.854	17.0	31.7	5.737	41	57.198	49.571	17.0	31.7	8.400
Total Oxygen Injected per Day (LBS)		0.000						33.932						39.732						
Injection Bank 2	Point 2A	32	0	0.000	0.000	0	14.7	0.000	26	33.288	28.850	12.0	26.7	4.118	29	36.780	31.876	11.5	26.2	4.464
	Point 8A	45	0	0.000	0.000	0	14.7	0.000	25	34.877	30.226	17.0	31.7	5.122	28	39.062	33.854	17.0	31.7	5.737
	Point 8B	64	0	0.000	0.000	0	14.7	0.000	20	31.420	27.231	25.5	40.2	5.852	26	40.591	35.179	25.0	39.7	7.466
	Point 8C	25	0	0.000	0.000	0	14.7	0.000	22	25.684	22.260	7.5	22.2	2.642	32	36.936	32.011	7.0	21.7	3.713
	Point 14A	25	0	0.000	0.000	0	14.7	0.000	23	27.152	23.532	8.0	22.7	2.855	32	37.777	32.740	8.0	22.7	3.973
	Point 14B	52	0	0.000	0.000	0	14.7	0.000	26	37.398	32.412	19.0	33.7	5.839	27	38.837	33.659	19.0	33.7	6.064
	Point 20A	25	0	0.000	0.000	0	14.7	0.000	25	29.513	25.578	8.0	22.7	3.104	28	32.689	28.330	7.5	22.2	3.362
Point 20B	42	0	0.000	0.000	0	14.7	0.000	22	30.448	26.389	16.5	31.2	4.401	26	35.403	30.683	15.5	30.2	4.953	
Total Oxygen Injected per Day (LBS)		0.000						29.272						35.371						
Injection Bank 3	Point 3A	25	0	0.000	0.000	0	14.7	0.000	20	23.611	20.463	8.0	22.7	2.483	32	37.777	32.740	8.0	22.7	3.973
	Point 3B	35	0	0.000	0.000	0	14.7	0.000	22	28.167	24.412	12.0	26.7	3.484	30	38.410	33.288	12.0	26.7	4.751
	Point 9A	45	0	0.000	0.000	0	14.7	0.000	22	30.448	26.389	16.5	31.2	4.401	30	41.521	35.985	16.5	31.2	6.002
	Point 9B	64	0	0.000	0.000	0	14.7	0.000	28	42.598	36.919	23.0	37.7	7.440	30	45.338	39.293	22.5	37.2	7.814
	Point 9C	25	0	0.000	0.000	0	14.7	0.000	26	30.354	26.307	7.5	22.2	3.122	35	40.861	35.413	7.5	22.2	4.203
	Point 15A	25	0	0.000	0.000	0	14.7	0.000	20	23.611	20.463	8.0	22.7	2.483	26	30.694	26.601	8.0	22.7	3.228
	Point 15B	44	0	0.000	0.000	0	14.7	0.000	30	41.187	35.695	16.0	30.7	5.858	28	38.284	33.179	15.8	30.45	5.401
Total Oxygen Injected per Day (LBS)		0.000						33.016						30.602						
Injection Bank 4	Point 4A	25	0	0.000	0.000	0	14.7	0.000	22	25.972	22.509	8.0	22.7	2.731	22	25.972	22.509	8.0	22.7	2.731
	Point 4B	39	0	0.000	0.000	0	14.7	0.000	28	37.490	32.491	14.5	29.2	5.072	28	37.168	32.212	14.0	28.7	4.942
	Point 10A	45	0	0.000	0.000	0	14.7	0.000	20	27.680	23.990	16.5	31.2	4.001	20	27.680	23.990	16.5	31.2	4.001
	Point 10B	64	0	0.000	0.000	0	14.7	0.000	30	48.001	41.601	27.0	41.7	9.273	21	32.991	28.592	25.5	40.2	6.144
	Point 10C	25	0	0.000	0.000	0	14.7	0.000	28	33.055	28.648	8.0	22.7	3.476	29	34.235	29.671	8.0	22.7	3.600
	Point 16A	25	0	0.000	0.000	0	14.7	0.000	24	28.019	24.283	7.5	22.2	2.882	30	35.024	30.354	7.5	22.2	3.602
	Point 16B	47	0	0.000	0.000	0	14.7	0.000	26	36.839	31.927	18.0	32.7	5.581	26	36.839	31.927	18.0	32.7	5.581
Total Oxygen Injected per Day (LBS)		0.000						30.897						40.386						
Injection Bank 5	Point 5A	25	0	0.000	0.000	0	14.7	0.000	22	25.684	22.260	7.5	22.2	2.642	34	39.694	34.401	7.5	22.2	4.082
	Point 5B	42	0	0.000	0.000	0	14.7	0.000	30	40.168	34.812	14.5	29.2	5.434	32	42.662	36.974	14.3	28.95	5.722
	Point 11A	45	0	0.000	0.000	0	14.7	0.000	24	33.216	28.788	16.5	31.2	4.801	34	47.057	40.782	16.5	31.2	6.802
	Point 11B	64	0	0.000	0.000	0	14.7	0.000	28	43.438	37.646	24.5	39.2	7.889	30	46.392	40.206	24.3	38.95	8.371
	Point 17A	25	0	0.000	0.000	0	14.7	0.000	20	23.611	20.463	8.0	22.7	2.483	38	44.860	38.879	8.0	22.7	4.718
	Point 17B	45	0	0.000	0.000	0	14.7	0.000	24	33.482	29.017	17.0	31.7	4.917	34	47.432	41.108	17.0	31.7	6.966
	Point 21A	25	0	0.000	0.000	0	14.7	0.000	22	25.972	22.509	8.0	22.7	2.731	30	35.416	30.694	8.0	22.7	3.725
Total Oxygen Injected per Day (LBS)		0.000						41.178						42.231						
System Total Per Day (LBS)		0.000						204.47						232.15						

Appendix J
Table J3
Q2 2009 Operational Data
9 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2009 7,273 lbs

O2%
R
Temp R (T)

Operational Days		Oxygen Injected Per Month
Month 1	Apr-09	30
Month 2	May-09	30
Month 3	Jun-09	29
Total Operational Days In Q2 2009		89
Total Oxygen in Q2 2009 (Lbs)		12,724.80
Running Total Through Q2 2009 (Lbs)		19,998.17

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM

Bank 1 finishes injection at 7:13AM
System is recharging 7:13AM to 8:00AM
Bank 3 starts injection at 9:00AM
Bank 3 finishes injection at 9:13AM
System is recharging from 9:13AM to 10:00AM
Bank 4 starts injection at 10:00AM
Bank 4 finishes injection at 10:13AM
System is recharging from 10:13AM to 11:00PM
Bank 5 starts injection at 11:00AM

Bank 5 finishes injection at 11:13AM
System is recharging from 11:13AM to 12:00PM
Bank 6 starts injection at 12:00PM
System is recharging from 12:13PM to 100PM
(Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 8:00AM and 8:30AM and 11:00AM and 4:00PM.
The oxygen weights have been adjusted to incorporate this schedule.

	Depth	4/15/2009						5/15/2009						6/30/2009						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	
		95						95						95						
		10.73						10.73						10.73						
		530						530						530						
Injection Bank 1	Point 1A	30	32	40.196	34.836	11	25.7	4.786	25	31.403	27.216	11	25.7	3.739	38	48.195	41.769	11.5	26.2	5.850
	Point 7A	30	29	35.712	30.950	10	24.7	4.087	20	24.378	21.128	9.5	24.2	2.733	38	47.266	40.964	10.5	25.2	5.518
	Point 7B	64	30	47.130	40.846	25.5	40.2	8.778	25	39.519	34.250	26	40.7	7.452	33	52.484	45.486	26.5	41.2	10.018
	Point 13A	25	32	36.936	32.011	7	21.7	3.713	22	25.393	22.007	7	21.7	2.553	36	42.029	36.425	7.5	22.2	4.323
	Point 13B	52	34	49.626	43.009	20	34.7	7.978	23	33.570	29.094	20	34.7	5.397	31	45.572	39.496	20.5	35.2	7.432
	Point 19A	25	32	37.777	32.740	8	22.7	3.973	22	25.972	22.509	8	22.7	2.731	30	36.188	31.363	9	23.7	3.973
	Point 19B	44	34	47.432	41.108	17	31.7	6.966	20	27.901	24.181	17	31.7	4.098	40	56.241	48.742	17.5	32.2	8.390
Total Oxygen Injected per Day (LBS)		40.280						28.702						45.504						
Injection Bank 2	Point 2A	32	25	31.403	27.216	11	25.7	3.739	25	31.707	27.479	11.5	26.2	3.849	43	55.567	48.158	12.5	27.2	7.002
	Point 8A	45	23	32.087	27.808	17	31.7	4.712	22	30.691	26.599	17	31.7	4.507	34	47.805	41.431	17.5	32.2	7.131
	Point 8B	64	28	43.714	37.885	25	39.7	8.040	26	40.591	35.179	25	39.7	7.466	32	50.272	43.569	25.5	40.2	9.363
	Point 8C	25	21	24.239	21.007	7	21.7	2.437	26	30.354	26.307	7.5	22.2	3.122	36	43.425	37.635	9	23.7	4.768
	Point 14A	25	26	31.030	26.893	8.5	23.2	3.335	25	29.837	25.858	8.5	23.2	3.207	38	45.352	39.305	8.5	23.2	4.875
	Point 14B	52	27	38.837	33.659	19	33.7	6.064	25	36.093	31.281	19.25	33.95	5.677	36	52.355	45.375	19.75	34.45	8.356
	Point 20A	25	26	30.354	26.307	7.5	22.2	3.122	25	29.513	25.578	8	22.7	3.104	36	42.499	36.833	8	22.7	4.469
Point 20B	42	26	35.695	30.936	16	30.7	5.077	24	32.949	28.556	16	30.7	4.686	34	47.057	40.782	16.5	31.2	6.802	
Total Oxygen Injected per Day (LBS)		36.526						35.618						52.766						
Injection Bank 3	Point 3A	25	29	34.235	29.671	8	22.7	3.600	30	35.416	30.694	8	22.7	3.725	28	33.236	28.805	8.25	22.95	3.534
	Point 3B	35	32	40.970	35.508	12	26.7	5.068	31	39.875	34.559	12.25	26.95	4.979	24	30.728	26.631	12	26.7	3.801
	Point 9A	45	30	41.521	35.985	16.5	31.2	6.002	28	38.753	33.586	16.5	31.2	5.602	28	38.753	33.586	16.5	31.2	5.602
	Point 9B	64	30	45.338	39.293	22.5	37.2	7.814	25	38.034	32.963	23	37.7	6.643	27	41.077	35.600	23	37.7	7.174
	Point 9C	25	30	35.024	30.354	7.5	22.2	3.602	28	32.689	28.330	7.5	22.2	3.362	27	31.874	27.624	8	22.7	3.352
	Point 15A	25	31	36.597	31.717	8	22.7	3.849	26	30.862	26.747	8.25	22.95	3.281	30	35.804	31.030	8.5	23.2	3.848
	Point 15B	44	30	41.187	35.695	16	30.7	5.858	23	31.576	27.366	16	30.7	4.491	12	16.475	14.278	16	30.7	2.343
Total Oxygen Injected per Day (LBS)		35.792						32.082						29.654						
Injection Bank 4	Point 4A	25	24	28.333	24.555	8	22.7	2.980	20	23.611	20.463	8	22.7	2.483	10	11.870	10.287	8.25	22.95	1.262
	Point 4B	39	27	35.840	31.061	14	28.7	4.765	25	33.473	29.010	14.5	29.2	4.528	10	12.982	11.251	12.75	27.45	1.651
	Point 10A	45	22	30.448	26.389	16.5	31.2	4.401	30	43.471	37.675	19.5	34.2	6.888	17	23.528	20.391	16.5	31.2	3.401
	Point 10B	64	28	43.988	38.123	25.5	40.2	8.192	30	47.422	41.099	26	40.7	8.942	27	42.549	36.876	25.75	40.45	7.974
	Point 10C	25	24	28.488	24.690	8.25	22.95	3.029	31	36.997	32.064	8.5	23.2	3.977	10	11.805	10.231	8	22.7	1.242
	Point 16A	25	28	32.689	28.330	7.5	22.2	3.362	28	32.689	28.330	7.5	22.2	3.362	11	12.842	11.130	7.5	22.2	1.321
	Point 16B	47	23	32.589	28.244	18	32.7	4.937	25	35.422	30.699	18	32.7	5.366	10	14.169	12.280	18	32.7	2.147
Total Oxygen Injected per Day (LBS)		31.667						35.546						18.996						
Injection Bank 5	Point 5A	25	26	30.354	26.307	7.5	22.2	3.122	26	30.354	26.307	7.5	22.2	3.122	12	14.010	12.142	7.5	22.2	1.441
	Point 5B	42	26	34.812	30.170	14.5	29.2	4.709	27	36.151	31.331	14.5	29.2	4.890	12	16.067	13.925	14.5	29.2	2.174
	Point 11A	45	30	41.521	35.985	16.5	31.2	6.002	28	38.753	33.586	16.5	31.2	5.602	14	19.454	16.860	16.75	31.45	2.834
	Point 11B	64	27	41.618	36.069	24	38.7	7.462	30	46.540	40.335	24.5	39.2	8.452	13	20.167	17.478	24.5	39.2	3.663
	Point 17A	25	22	25.972	22.509	8	22.7	2.731	28	33.055	28.648	8	22.7	3.476	14	16.527	14.324	8	22.7	1.738
	Point 17B	45	26	36.272	31.435	17	31.7	5.327	28	39.216	33.987	17.25	31.95	5.805	11	15.466	13.404	17.5	32.2	2.307
	Point 21A	25	22	25.972	22.509	8	22.7	2.731	30	35.416	30.694	8	22.7	3.725	10	11.870	10.287	8.25	22.95	1.262
Total Oxygen Injected per Day (LBS)		32.084						35.072						15.419						
Injection Bank 6	Point 6A	30	18	21.250	18.416	8	22.7	2.235	14	16.527	14.324	8	22.7	1.738	36	42.965	37.236	8.5	23.2	4.618
	Point 6B	52	18	26.083	22.605	19.5	34.2	4.133	12	17.515	15.180	20	34.7	2.816	33	48.166	41.744	20	34.7	7.743
	Point 12A	25	14	16.159	14.005	7	21.7	1.625	10	11.675	10.118	7.5	22.2	1.201	28	33.055	28.648	8	22.7	3.476
	Point 12B	54	25	37.270	32.301	21.5	36.2	6.251	13	19.246	16.680	21	35.7	3.183	28	42.030	36.426	22	36.7	7.146
	Point 18A	25	22	25.972	22.509	8	22.7	2.731	20	23.611	20.463	8	22.7	2.483	34	40.578	35.167	8.5	23.2	4.361
	Point 18B	45	15	20.926	18.136	17	31.7	3.073	14	19.531	16.927	17	31.7	2.868	34	47.805	41.431	17.5	32.2	7.131
	Point 21B	42	16	21.787	18.882	15.5	30.2	3.048	16	21.787	18.882	15.5	30.2	3.048	37	50.797	44.024	16	30.7	7.225
Total Oxygen Injected per Day (LBS)		23.095						17.337						41.701						
System Total Per Day (LBS)		199.44						184.36						204.04						

Appendix J
Table J3
Q3 2009 Operational Data
9 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2009 19,998 lbs

O2%
R
Temp R (T)

Operational Days		Oxygen Injected Per Month
Month 1	Jul-09	31
Month 2	Aug-09	30
Month 3	Sep-09	30
Total Operational Days In Q3 2009		91
Total Oxygen in Q3 2009 (Lbs)		16,232.93
Running Total Through Q3 2009 (Lbs)		36,231.11

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example
Bank 1 starts at 7AM
Bank 1 finishes injection at 7:13AM
System is recharging 7:13AM to 8:00AM
System is recharging 8:13AM to 9:00AM
Bank 3 starts injection at 9:00AM
Bank 3 finishes injection at 9:13AM
System is recharging from 9:13AM to 10:00AM
Bank 4 starts injection at 10:00AM
Bank 4 finishes injection at 10:13AM
System is recharging from 10:13AM to 11:00PM
Bank 5 starts injection at 11:00AM
Bank 5 finishes injection at 11:13AM
System is recharging from 11:13AM to 12:00PM
Bank 6 starts injection at 12:00PM
System is recharging from 12:13PM to 1:00PM
(Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 8:00AM and 8:30AM and 11:00AM and 4:00PM.
The oxygen weights have been adjusted to incorporate this schedule.

System was down on 8/20/09 due to a mechanical fault to the Booster Pump.

	Depth	7/22/2009						8/17/2009						9/23/2009						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	
		95						95						95						
		10.73						10.73						10.73						
		530						530						530						
Injection Bank 1	Point 1A	30	24	30.147	26.127	11	25.7	3.589	27	33.915	29.393	11	25.7	4.038	30	37.684	32.659	11	25.7	4.487
	Point 7A	30	28	34.480	29.883	10	24.7	3.946	27	33.249	28.816	10	24.7	3.805	32	39.406	34.152	10	24.7	4.509
	Point 7B	64	22	33.023	28.620	22	36.7	5.615	35	55.665	48.243	26.5	41.2	10.625	30	48.001	41.601	27	41.7	9.273
	Point 13A	25	24	27.702	24.008	7	21.7	2.785	27	31.164	27.009	7	21.7	3.133	34	40.138	34.786	8	22.7	4.221
	Point 13B	52	26	37.949	32.889	20	34.7	6.101	31	45.247	39.214	20	34.7	7.274	30	43.788	37.949	20	34.7	7.039
	Point 19A	25	26	31.030	26.893	8.5	23.2	3.335	23	27.152	23.532	8	22.7	2.855	28	33.055	28.648	8	22.7	3.476
	Point 19B	44	24	33.482	29.017	17	31.7	4.917	31	42.905	37.184	16.5	31.2	6.202	38	53.012	45.944	17	31.7	7.786
Total Oxygen Injected per Day (LBS)		30.288						37.932						40.792						
Injection Bank 2	Point 2A	32	34	43.531	37.727	12	26.7	5.385	26	32.975	28.579	11.5	26.2	4.003	38	48.652	42.165	12	26.7	6.018
	Point 8A	45	34	47.432	41.108	17	31.7	6.966	26	36.272	31.435	17	31.7	5.327	42	58.593	50.780	17	31.7	8.605
	Point 8B	64	36	56.203	48.710	25	39.7	10.337	24	37.232	32.268	24.5	39.2	6.762	40	63.230	54.799	26	40.7	11.922
	Point 8C	25	34	39.694	34.401	7.5	22.2	4.082	24	27.702	24.008	7	21.7	2.785	40	46.698	40.472	7.5	22.2	4.803
	Point 14A	25	34	40.578	35.167	8.5	23.2	4.361	26	30.694	26.601	8	22.7	3.228	38	44.860	38.879	8	22.7	4.718
	Point 14B	52	34	48.906	42.385	19	33.7	7.636	27	38.837	33.659	19	33.7	6.064	40	57.536	49.865	19	33.7	8.983
	Point 20A	25	36	42.499	36.833	8	22.7	4.469	23	27.152	23.532	8	22.7	2.855	35	41.319	35.809	8	22.7	4.345
Point 20B	42	36	49.424	42.834	16	30.7	7.030	30	41.187	35.695	16	30.7	5.858	38	52.170	45.214	16	30.7	7.420	
Total Oxygen Injected per Day (LBS)		50.266						36.881						56.815						
Injection Bank 3	Point 3A	25	28	32.689	28.330	7.5	22.2	3.362	29	33.856	29.342	7.5	22.2	3.482	40	47.220	40.925	8	22.7	4.966
	Point 3B	35	26	33.288	28.850	12	26.7	4.118	27	34.244	29.678	11.5	26.2	4.157	40	50.731	43.967	11.5	26.2	6.158
	Point 9A	45	36	49.825	43.181	16.5	31.2	7.202	27	37.369	32.386	16.5	31.2	5.401	40	54.915	47.593	16	30.7	7.811
	Point 9B	64	31	44.920	38.931	19.5	34.2	7.117	31	46.849	40.602	22.5	37.2	8.074	30	46.243	40.077	24	38.7	8.291
	Point 9C	25	28	32.689	28.330	7.5	22.2	3.362	19	21.930	19.006	7	21.7	2.205	42	48.478	42.014	7	21.7	4.874
	Point 15A	25	26	30.694	26.601	8	22.7	3.228	24	28.333	24.555	8	22.7	2.980	35	40.398	35.012	7	21.7	4.061
	Point 15B	44	22	30.203	26.176	16	30.7	4.296	30	40.850	35.403	15.5	30.2	5.715	40	54.915	47.593	16	30.7	7.811
Total Oxygen Injected per Day (LBS)		32.685						32.014						43.971						
Injection Bank 4	Point 4A	25	30	35.416	30.694	8	22.7	3.725	32	37.777	32.740	8	22.7	3.973	32	37.777	32.740	8	22.7	3.973
	Point 4B	39	36	47.787	41.415	14	28.7	6.354	32	42.477	36.814	14	28.7	5.648	38	50.442	43.716	14	28.7	6.707
	Point 10A	45	30	41.521	35.985	16.5	31.2	6.002	30	41.521	35.985	16.5	31.2	6.002	32	44.289	38.383	16.5	31.2	6.402
	Point 10B	64	30	47.130	40.846	25.5	40.2	8.778	25	39.275	34.038	25.5	40.2	7.315	32	51.202	44.375	27	41.7	9.892
	Point 10C	25	38	45.352	39.305	8.5	23.2	4.875	29	34.235	29.671	8	22.7	3.600	32	37.777	32.740	8	22.7	3.973
	Point 16A	25	38	44.363	38.448	7.5	22.2	4.563	31	35.781	31.010	7	21.7	3.597	34	39.244	34.012	7	21.7	3.945
	Point 16B	47	32	45.341	39.295	18	32.7	6.869	32	45.341	39.295	18	32.7	6.869	35	49.591	42.979	18	32.7	7.513
Total Oxygen Injected per Day (LBS)		41.164						37.004						42.404						
Injection Bank 5	Point 5A	25	36	42.029	36.425	7.5	22.2	4.323	30	35.024	30.354	7.5	22.2	3.602	40	46.698	40.472	7.5	22.2	4.803
	Point 5B	42	34	45.523	39.454	14.5	29.2	6.158	30	40.168	34.812	14.5	29.2	5.434	34	45.523	39.454	14.5	29.2	6.158
	Point 11A	45	30	41.852	36.272	17	31.7	6.146	38	52.593	45.580	16.5	31.2	7.602	38	52.593	45.580	16.5	31.2	7.602
	Point 11B	64	32	49.643	43.024	24.5	39.2	9.016	40	61.657	53.436	24	38.7	11.055	38	58.574	50.764	24	38.7	10.502
	Point 17A	25	32	37.777	32.740	8	22.7	3.973	32	37.777	32.740	8	22.7	3.973	38	44.363	38.448	7.5	22.2	4.563
	Point 17B	45	32	44.993	38.994	17.5	32.2	6.712	33	46.399	40.212	17.5	32.2	6.922	38	53.012	45.944	17	31.7	7.786
	Point 21A	25	34	40.578	35.167	8.5	23.2	4.361	32	37.777	32.740	8	22.7	3.973	35	41.319	35.809	8	22.7	4.345
Total Oxygen Injected per Day (LBS)		40.689						42.560						45.759						
Injection Bank 6	Point 6A	30	36	42.499	36.833	8	22.7	4.469	34	40.138	34.786	8	22.7	4.221	40	47.221	40.925	8	22.7	4.966
	Point 6B	52	32	46.369	40.186	19.5	34.2	7.347	34	48.175	41.751	18	32.7	7.298	40	57.961	50.233	19.5	34.2	9.184
	Point 12A	25	30	35.024	30.354	7.5	22.2	3.602	28	32.689	28.330	7.5	22.2	3.362	38	44.363	38.448	7.5	22.2	4.563
	Point 12B	54	30	44.414	38.492	21	35.7	7.346	34	50.687	43.929	21.5	36.2	8.501	35	52.537	45.532	22	36.7	8.933
	Point 18A	25	34	40.138	34.786	8	22.7	4.221	29	34.235	29.671	8	22.7	3.600	30	35.024	30.354	7.5	22.2	3.602
	Point 18B	45	36	50.222	43.526	17	31.7	7.376	29	39.488	34.223	15.5	30.2	5.525	30	41.187	35.695	16	30.7	5.858
	Point 21B	42	34	45.912	39.790	15	29.7	6.317	31	41.861	36.279	15	29.7	5.760	32	43.573	37.763	15.5	30.2	6.096
Total Oxygen Injected per Day (LBS)		40.679						38.267						43.202						
System Total Per Day (LBS)		235.77						224.66						272.94						

Appendix J
Table J3
Q4 2009 Operational Data
9 N. Clinton Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2009 36,231 lbs

Operational Days	Oxygen Injected Per Month
Month 1 Oct-09	31
Month 2 Nov-09	28
Month 3 Jan-09	31
Total Operational Days In Q4 2009	90
Total Oxygen injected during Q4 2009 (Lbs)	15,207.55
Running total of Injected Oxygen (Lbs)	51,438.65

Notes:
 SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
 CF/D (V) = Volume of oxygen injected per day
 PSI (M) = Measured pressure
 PSla (P) = Pressure converted to atmospheric pressure.
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (10.73 ((psi)(ft^3))/(moles)(T))

System Operating Specs

Total of 6 injection banks
 Oxygen is injected for 13 minutes during each injection cycle
 Each Injection bank operates for 4 injection cycles per day
 Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 Cycles)

Example

Bank 1 starts at 7AM

Bank 1 finishes injection at 7:13AM
 System is recharging 7:13AM to 8:00AM
 System is recharging 8:13AM to 9:00AM
 Bank 3 starts injection at 9:00AM
 Bank 3 finishes injection at 9:13AM
 System is recharging from 9:13AM to 10:00AM
 Bank 4 starts injection at 10:00AM
 Bank 4 finishes injection at 10:13AM
 System is recharging from 10:13AM to 11:00PM
 Bank 5 starts injection at 11:00AM

Bank 5 finishes injection at 11:13AM
 System is recharging from 11:13AM to 12:00PM
 Bank 6 starts injection at 12:00PM
 System is recharging from 12:13PM to 1:00PM
 (Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 8:00AM and 8:30AM and 11:00AM and 4:00PM.
 The oxygen weights have been adjusted to incorporate this schedule

System Down Time

11/6/09 System was down due to a problem with the electrical outlet - Duration - 2 day.

	Depth	10/30/2009						11/27/2009						1/9/2009						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=Pv/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=Pv/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=Pv/RT lbs O2	
		92.4						92						93.2						
		10.73						10.73						10.73						
		530						530						530						
Injection Bank 1	Point 1A	30	30	37.684	32.659	11	25.7	4.364	30	37.315	32.340	10.5	25.2	4.219	38	47.733	41.368	11	25.7	5.576
	Point 7A	30	32	39.406	34.152	10	24.7	4.386	30	36.943	32.017	10	24.7	4.094	40	49.258	42.690	10	24.7	5.530
	Point 7B	64	32	51.202	44.375	27	41.7	9.621	30	47.130	40.846	25.5	40.2	8.500	36	56.556	49.015	25.5	40.2	10.334
	Point 13A	25	32	37.777	32.740	8	22.7	3.864	33	38.090	33.011	7	21.7	3.708	40	46.169	40.014	7	21.7	4.554
	Point 13B	52	30	43.788	37.949	20	34.7	6.847	30	43.788	37.949	20	34.7	6.817	32	46.707	40.479	20	34.7	7.366
	Point 19A	25	28	33.055	28.648	8	22.7	3.381	28	32.689	28.330	7.5	22.2	3.256	29	34.235	29.671	8	22.7	3.532
	Point 19B	44	32	44.642	38.690	17	31.7	6.377	32	44.642	38.690	17	31.7	6.349	41	57.198	49.571	17	31.7	8.241
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		38.840						36.944						45.132						
Injection Bank 2	Point 2A	32	38	48.652	42.165	12	26.7	5.853	30	38.048	32.975	11.5	26.2	4.473	38	48.195	41.769	11.5	26.2	5.739
	Point 8A	45	42	58.593	50.780	17	31.7	8.370	30	41.852	36.272	17	31.7	5.952	38	53.012	45.944	17	31.7	7.638
	Point 8B	64	40	63.230	54.799	26	40.7	11.596	28	43.714	37.885	25	39.7	7.786	34	53.081	46.004	25	39.7	9.578
	Point 8C	25	28	32.689	28.330	7.5	22.2	3.270	32	36.936	32.011	7	21.7	3.596	40	46.698	40.472	7.5	22.2	4.712
	Point 14A	25	30	35.416	30.694	8	22.7	3.623	31	36.597	31.717	8	22.7	3.727	38	45.352	39.305	8.5	23.2	4.782
	Point 14B	52	26	37.398	32.412	19	33.7	5.679	32	38.600	33.453	9	23.7	4.104	38	55.063	47.721	19.5	34.2	8.559
	Point 20A	25	26	30.694	26.601	8	22.7	3.140	30	35.024	30.354	7.5	22.2	3.488	38	44.860	38.879	8	22.7	4.628
	Point 20B	42	26	35.695	30.936	16	30.7	4.938	33	45.305	39.265	16	30.7	6.240	40	55.361	47.979	16.5	31.2	7.851
Total Oxygen Injected per Day (LBS)		46.469						39.367						53.487						
Injection Bank 3	Point 3A	25	32	37.777	32.740	8	22.7	3.864	31	36.597	31.717	8	22.7	3.727	31	36.597	31.717	8	22.7	3.776
	Point 3B	35	30	38.048	32.975	11.5	26.2	4.492	30	38.410	33.288	12	26.7	4.601	32	40.970	35.508	12	26.7	4.972
	Point 9A	45	28	38.441	33.315	16	30.7	5.318	32	44.289	38.383	16.5	31.2	6.200	35	48.441	41.982	16.5	31.2	6.869
	Point 9B	64	27	41.618	36.069	24	38.7	7.258	28	42.315	36.673	22.5	37.2	7.062	28	42.315	36.673	22.5	37.2	7.155
	Point 9C	25	28	32.319	28.009	7	21.7	3.160	33	38.526	33.389	7.5	22.2	3.837	36	42.029	36.425	7.5	22.2	4.241
	Point 15A	25	30	34.627	30.010	7	21.7	3.386	34	40.138	34.786	8	22.7	4.088	32	37.777	32.740	8	22.7	3.898
	Point 15B	44	30	41.521	35.985	16.5	31.2	5.837	34	46.678	40.454	16	30.7	6.429	35	47.855	41.474	15.75	30.45	6.623
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		33.315						35.945						37.533						
Injection Bank 4	Point 4A	25	30	35.416	30.694	8	22.7	3.623	27	31.874	27.624	8	22.7	3.246	32	37.777	32.740	8	22.7	3.898
	Point 4B	39	30	39.822	34.513	14	28.7	5.150	28	37.168	32.212	14	28.7	4.786	36	47.787	41.415	14	28.7	6.234
	Point 10A	45	28	38.753	33.586	16.5	31.2	5.448	30	43.471	37.675	19.5	34.2	6.670	28	38.753	33.586	16.5	31.2	5.495
	Point 10B	64	30	48.001	41.601	27	41.7	9.020	25	39.275	34.038	25.5	40.2	7.084	28	43.988	38.123	25.5	40.2	8.037
	Point 10C	25	28	33.055	28.648	8	22.7	3.381	30	35.416	30.694	8	22.7	3.607	36	42.499	36.833	8	22.7	4.385
	Point 16A	25	30	34.627	30.010	7	21.7	3.386	28	32.689	28.330	7.5	22.2	3.256	33	38.526	33.389	7.5	22.2	3.887
	Point 16B	47	26	35.695	30.936	16	30.7	4.938	29	41.090	35.611	18	32.7	6.028	36	51.008	44.207	18	32.7	7.581
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		34.945						34.677						39.517						
Injection Bank 5	Point 5A	25	30	35.416	30.694	8	22.7	3.623	23	26.852	23.271	7.5	22.2	2.674	28	32.689	28.330	7.5	22.2	3.298
	Point 5B	42	30	39.822	34.513	14	28.7	5.150	28	37.490	32.491	14.5	29.2	4.911	28	37.490	32.491	14.5	29.2	4.976
	Point 11A	45	36	50.222	43.526	17	31.7	7.174	30	41.521	35.985	16.5	31.2	5.812	26	35.985	31.187	16.5	31.2	5.103
	Point 11B	64	36	55.848	48.402	24.5	39.2	9.865	28	42.880	37.163	23.5	38.2	7.349	29	44.411	38.490	23.5	38.2	7.711
	Point 17A	25	28	33.055	28.648	8	22.7	3.381	28	33.055	28.648	8	22.7	3.366	26	30.694	26.601	8	22.7	3.167
	Point 17B	45	30	41.852	36.272	17	31.7	5.978	30	42.181	36.557	17.5	32.2	6.094	28	39.369	34.120	17.5	32.2	5.762
	Point 21A	25	30	35.416	30.694	8	22.7	3.623	27	31.874	27.624	8	22.7	3.246	27	31.874	27.624	8	22.7	3.289
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected per Day (LBS)		38.793						33.454						33.305						
Injection Bank 6	Point 6A	30	32	37.777	32.740	8	22.7	3.864	27	31.874	27.624	8	22.7	3.246	36	42.499	36.833	8	22.7	4.385
	Point 6B	52	29	42.328	36.684	20	34.7	6.618	0	0.000	0.000	0	14.7	0.000	34	49.267	42.698	19.5	34.2	7.658
	Point 12A	25	28	32.689	28.330	7.5	22.2	3.270	25	29.186	25.295	7.5	22.2	2.907	36	42.499	36.833	8	22.7	4.385
	Point 12B	54	28	42.598	36.919	23	37.7	7.237	30	44.414	38.492	21	35.7	7.114	0	0.000	0.000	15	29.7	0.000
	Point 18A	25	30	35.024	30.354	7.5	22.2	3.504	30	35.416	30.694	8	22.7	3.607	36	42.499	36.833	8	22.7	4.385
	Point 18B	45	32	43.932	38.075	16	30.7	6.077	24	33.482	29.017	17	31.7	4.762	37	51.617	44.735	17	31.7	7.437
	Point 21B	42	30	40.850	35.403	15.5	30.2	5.599	28	38.126	33.043	15.5	30.2	5.166	100	137.288	118.983	16	30.7	19.156
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Total Per Day (LBS)		36.129						26.802						47.406						
System Total Per Day (LBS)		228.49						207.19						256.38						

Appendix J
Table J4
Q3 2009 Operational Data
Plume Tail Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2009

0 lbs

Month	Operational Days	Oxygen Injected Per Month (Lbs)
Month 1	Jul-09	0
Month 2	Aug-09	1797
Month 3	Sep-09	4846
Total Operational Days In Q3 2009		44
Total Oxygen in Q3 2009 (Lbs)		6,642.98
Running Total Through Q3 2009 (Lbs)		6,642.98

Notes:

SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen
 CV/D (V) = Volume of oxygen injected
 PSI (M) = Measured pressure
 PSla (P) = Pressure converted to atmospheric pressure.
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (0.73)

* - System was started on August 17, 2009

System Operating Specs

Total of 2 injection banks
 Oxygen is injected for 10 minutes during each injection cycle
 Each Injection bank operates for 12 injection cycles per day
 Each injection point injects oxygen for 120 min per day (10 min per cycle * 12 Cycles)

Example

Bank 1 starts at 7AM
 Bank 1 finishes injection at 710AM
 System is recharging 710AM to 800AM
 Bank 2 starts injection at 800AM
 Bank 2 finishes injection at 810AM
 System is recharging 810AM to 900AM
 Bank 1 starts injection at 900AM
 Bank 1 finishes injection at 910AM
 System is recharging from 910AM to 10AM
 Bank 2 starts injection at 10AM

(Keep repeating cycle for course of day)

		O2%						8/20/2009						9/30/2009					
		R						95						95					
		Temp R (T)						10.73						10.73					
		530						530						530					
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSla (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	39	0.000	0.000		14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0	14.7	0.000
	Point 2	19	0.000	0.000		14.7	0.000	28	33.055	66.110	8.0	22.7	8.022	30	35.416	70.832	8	22.7	8.595
	Point 3	39	0.000	0.000		14.7	0.000	30	42.507	85.014	18.0	32.7	14.861	30	41.852	83.704	17	31.7	14.184
	Point 4	19	0.000	0.000		14.7	0.000	20	23.611	47.221	8.0	22.7	5.730	32	37.777	75.554	8.0	22.7	9.168
	Point 5	44	0.000	0.000		14.7	0.000	20	28.768	57.536	19.0	33.7	10.365	30	42.831	85.661	18.5	33.2	15.203
	Point 6	19	0.000	0.000		14.7	0.000	20	23.085	46.169	7.0	21.7	5.356	30	34.627	69.254	7.0	21.7	8.033
	Point 7	44	0.000	0.000		14.7	0.000	20	29.192	58.383	20.0	34.7	10.830	28	40.573	81.146	19.5	34.2	14.835
	Point 8	19	0.000	0.000		14.7	0.000	20	22.273	44.545	5.5	20.2	4.810	20	21.995	43.990	5.0	19.7	4.633
Total Oxygen Injected per Day (LBS)		0.000						59.973						74.651					
Injection Bank 2	Point 9	44	0.000	0.000		14.7	0.000	22	31.645	63.290	19.0	33.7	11.401	30	42.181	84.361	17.5	32.2	14.521
	Point 10	19	0.000	0.000		14.7	0.000	22	25.972	51.943	8.0	22.7	6.303	30	35.024	70.048	7.5	22.2	8.313
	Point 11	44	0.000	0.000		14.7	0.000	22	31.645	63.290	19.0	33.7	11.401	30	43.152	86.304	19.0	33.7	15.547
	Point 12	19	0.000	0.000		14.7	0.000	22	25.684	51.368	7.5	22.2	6.096	28	32.319	64.637	7.0	21.7	7.498
	Point 13	44	0.000	0.000		14.7	0.000	20	28.768	57.536	19.0	33.7	10.365	24	34.522	69.043	19.0	33.7	12.438
	Point 14	19	0.000	0.000		14.7	0.000	22	24.801	49.602	6.0	20.7	5.489	30	33.820	67.640	6.0	20.7	7.485
	Point 15	44	0.000	0.000		14.7	0.000	20	28.554	57.108	18.5	33.2	10.135	30	42.831	85.661	18.5	33.2	15.203
	Point 16	19	0.000	0.000		14.7	0.000	25	29.513	59.027	8.0	22.7	7.163	22	25.393	50.786	7.0	21.7	5.891
Total Oxygen Injected per Day (LBS)		0.000						68.353						86.896					
System Total Per Day (LBS)		0.00						128.33						161.55					

Appendix J
Table J4
Q4 2009 Operational Data
Plume Tail Oxygen Injection System
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2009

6,643 lbs

Month	Operational Days	Oxygen Injected Per Month (Lbs)
Month 1	Oct-09	29
Month 2	Nov-09	30
Month 3	Dec-09	31
Total Operational Days In Q4 2009		90
Total Oxygen injected during Q4 2009 (Lbs)		11,411.24
Running total of Injected Oxygen (Lbs)		18,054.23

Notes:

SCFH (M) = Measured flow rate
 SCFH (C*) = Flow rate converted for oxygen
 CV/D (V) = Volume of oxygen injected
 PSI (M) = Measured pressure
 PSia (P) = Pressure converted to atmospheric pressure
 n = PV/RT = Mass of Oxygen
 Temperature = Degrees Rankine
 R = Constant (10.73 ((psi)(ft³))/((moles)(T)))

* - System was started on August 17, 2009

System Operating Specs

Total of 2 injection banks
 Oxygen is injected for 10 minutes during each injection cycle
 Each Injection bank operates for 12 injection cycles per day
 Each injection point injects oxygen for 120 min per day (10 min per cycle * 12 Cycles)

Example

Bank 1 starts at 7AM
 Bank 1 finishes injection at 710AM
 System is recharging 710AM to 800AM
 Bank 2 starts injection at 800AM
 Bank 2 finishes injection at 810AM
 System is recharging 810AM to 900AM
 Bank 1 starts injection at 900AM
 Bank 1 finishes injection at 910AM
 System is recharging from 910AM to 10AM
 Bank 2 starts injection at 10AM

(Keep repeating cycle for course of day)

System Down Time

10/20/09 - Compressor Alarm - Duration - 1 day
 10/26/09 - Power Failure - Duration - 1 day

		10/28/2009						11/19/2009						12/29/2009											
		O2%						92.4						95.1						87.2					
		R						10.73						10.73						10.73					
		Temp R (T)						530						530						530					
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=Pv/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=Pv/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=Pv/RT lbs O2						
		Injection Bank 1																							
	Point 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 2	19	26	30.694	61.388	8.0	22.7	7.245	28	33.055	66.110	8.0	22.7	8.031	16	18.679	37.359	7.5	22.2	4.069					
	Point 3	39	26	36.272	72.543	17.0	31.7	11.956	28	39.062	78.124	17.0	31.7	13.252	15	20.760	41.521	16.5	31.2	6.356					
	Point 4	19	28	33.055	66.110	8.0	22.7	7.803	32	37.777	75.554	8.0	22.7	9.178	18	21.014	42.029	7.5	22.2	4.578					
	Point 5	44	26	37.398	74.797	19.0	33.7	13.106	26	37.398	74.797	19.0	33.7	13.489	15	21.253	42.507	18	32.7	6.820					
	Point 6	19	30	35.024	70.048	7.5	22.2	8.085	30	34.627	69.254	7.0	21.7	8.042	15	17.113	34.226	6.5	21.2	3.560					
	Point 7	44	28	40.868	81.737	20.0	34.7	14.747	28	40.868	81.737	20.0	34.7	15.178	12	17.261	34.522	19.0	33.7	5.708					
	Point 8	19	28	30.793	61.587	5.0	19.7	6.308	30	32.993	65.986	5.0	19.7	6.956	16	17.371	34.743	4.5	19.2	3.273					
Total Oxygen Injected per Day (LBS)		69.250						74.125						34.366											
Injection Bank 2																									
	Point 9	44	28	40.573	81.146	19.5	34.2	14.429	24	34.522	69.043	19.0	33.7	12.451	14	19.988	39.975	18.5	33.2	6.512					
	Point 10	19	28	33.055	66.110	8.0	22.7	7.803	30	35.416	70.832	8.0	22.7	8.604	18	21.014	42.029	7.5	22.2	4.578					
	Point 11	44	26	37.398	74.797	19.0	33.7	13.106	22	31.645	63.290	19.0	33.7	11.413	14	19.837	39.673	18.0	32.7	6.366					
	Point 12	19	30	35.024	70.048	7.5	22.2	8.085	30	34.627	69.254	7.0	21.7	8.042	16	18.468	36.936	7.0	21.7	3.933					
	Point 13	44	26	37.398	74.797	19.0	33.7	13.106	20	28.768	57.536	19.0	33.7	10.376	11	15.705	31.409	18.5	33.2	5.117					
	Point 14	19	30	33.820	67.640	6.0	20.7	7.280	34	38.329	76.658	6.0	20.7	8.491	20	22.273	44.545	5.5	20.2	4.415					
	Point 15	44	26	37.120	74.240	18.5	33.2	12.815	22	31.645	63.290	19.0	33.7	11.413	16	22.670	45.341	18.0	32.7	7.275					
	Point 16	19	30	35.024	70.048	7.5	22.2	8.085	30	35.416	70.832	8.0	22.7	8.604	12	13.851	27.702	7.0	21.7	2.950					
Total Oxygen Injected per Day (LBS)		84.708						79.396						41.145											
System Total Per Day (LBS)		153.96						153.52						75.51											

Sys placed in op auto 5:05 pm BANK 1 - Auto

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>3/31/09</u> Time: _____ Weather: _____ Inside Trailer Temperature: _____ Performed By: _____ <p align="center" style="font-size: 1.2em;">Start up</p>
--	---

O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours _____	Compressor Tank * _____ (psi)
Feed Air Pressure * _____ (psi)	(readings below are made from control panel)
Cycle Pressure * _____ (psi)	Delivery Air _____ (psi)
Oxygen Receiver Pressure * _____ (psi)	Element Outlet Temperature _____ (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) _____ (psi)	Dewpoint _____
Oxygen Purity _____ (percent)	Running Hours _____ (hours)
* maximum reading during loading cycle	Loading Hours _____ (hours)
	Motor Starts _____
	Regular Hours _____ (hours)
	Maximum Pressure _____ (psi)
	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1A	62	30	23.5	Point 2A	67	30	25.5	Point 3A	65	30	24.5
Point 1B	46	30	17	Point 2B	46	30	17	Point 3B	46	30	17
Point 6A	65	30	28	Point 7A	65	30	24.5	Point 8A	71	30	29
Point 6B	46	30	16.5	Point 7B	46	30	17	Point 8B	46	30	16.5
Point 11	46	30	16.5	Point 12	46	30	16.5	Point 32A	63.5	30	27.5
Point 35	41	30	14	Point 36	36	30	12	Point 32B	36	30	11.5
Point 40	41	30	14.5	Point 41	41	30	14.5	Point 37	41	30	13.5
Point 45	31	30	10	Point 46	36	30	12	Point 42	36	30	12

Comments:
 Point 32A Pinned Gauge Thin Brake out

3/31/09
 4:40 pm
 90%

Date: 3/31/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

3/31/09

Injection Bank 4			Injection Bank 5			Injection Bank 6				
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi		
Point 4A	69	30	27	Point 5A	65	30	25.5	Point 13	Cooper In portion	
Point 4B	46	30	17	Point 5B	46	30	16.5	Point 14	Not yet installed	
Point 9A	71	30	27.5	Point 10	56	30	21	Point 15		
Point 9B	46	30	17	Point 34	41	30	13	Point 16		
Point 33	42	30	14	Point 39	26	30	7	Point 17		
Point 38	36	30	11.5	Point 44	36	30	11.5	Point 18		
Point 43	31	30	9	-	-	-	-	Point 19	-	-
-	-	-	-	-	-	-	-	Point 20	-	-

Comments:

Injection Bank 7			Injection Bank 8		
Depth	scfh	psi	Depth	scfh	psi
Point 21	Cooper In portion		Point 27A	Cooper In portion	
Point 22	Not yet installed		Point 27B	Not yet installed	
Point 23			Point 28		
Point 24			Point 29A		
Point 25A			Point 29B		
Point 25B			Point 30A		
Point 26A			Point 31A		
Point 26B			Point 31B		

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 3/31/09
 Time: _____
 Weather: _____
 Inside Trailer Temperature: _____
 Performed By: AP

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours	<u>16</u>	Compressor Tank *	<u>85</u>	(psi)
Feed Air Pressure *	<u>85</u>	(readings below are made from control panel)		
Cycle Pressure *	<u>0 - ~64</u>	Delivery Air	<u>92 29</u>	(psi)
Oxygen Receiver Pressure *	<u>55</u>	Element Outlet Temperature	<u>170</u>	(°F)
	(psi)	Dewpoint	-	
Oxygen Receiver Tank Pressure	<u>115</u>	Running Hours	<u>12</u>	(hours)
(reading from blue tank)	(psi)	Loading Hours	<u>12</u>	(hours)
Oxygen Purity	_____	Motor Starts	-	
* maximum reading during loading cycle	(percent)	Regular Hours	-	(hours)
		Maximum Pressure	-	(psi)
		* maximum reading during loading cycle		

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	28	23	Point 2A	67	30	25.5	Point 3A	65	26	24.5
Point 1B	46	30	16	Point 2B	46	30	16.5	Point 3B	46	24	16.5
Point 6A	65	28	19.5	Point 7A	65	30	24.5	Point 8A	71	23	30 ²⁹
Point 6B	46	30	16.5	Point 7B	46	30	17	Point 8B	46	28	16.5
Point 11	46	29	16.5	Point 12	46	30	16.5	Point 32A	63.5	29	27
Point 35	41	27	13	Point 36	36	30	11.5	Point 32B	36	25	11
Point 40	41	29	13.5	Point 41	41	30	14	Point 37	41	26	14.5 ^{13.5}
Point 45	31	28	9	Point 46	36	30	11.5	Point 42	36	28	11.5

slowly
 continues
 to lose
 pressure
 read wrong
 13.5

Comments: IB1: all flows set to 30 scfh.
 5040 1704-IB1-on
 1717-IB1-off
 IB2 -> 1804 - on - all flows were off - it was on skip - went to 3
 1807 - 38 set off bank - all were > 30 scfh - set to 30 scfh
 IB3 -> 1906 - on - all flows set to 30 scfh
 1919 - off

note: when booster pump is turning off makes strange rumbling noise.

Date: 3/21/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 4A	69	30	26.5	Point 5A	65	22	25	Point 13	Cooper In portion		
Point 4B	46	31	16.5	Point 5B	46	19	16	Point 14	Not yet installed		
Point 9A	71	34	26.25	Point 10	56	26	20.5	Point 15			
Point 9B	46	32	16.75	Point 34	41	24	13	Point 16			
Point 33	42	30	14	Point 39	26	28	7	Point 17			
Point 38	36	34	11.5	Point 44	36	24	11.5	Point 18			
Point 43	31	32	9.25	-	-	-	-	Point 19	-	-	-
-	-	-	-	-	-	-	-	Point 20	-	-	-

Comments: 2006 - 1B4 - on - all flows set to 30 scfh
 2019 - 1B4 - off
 2106 - 1B5 - on

Injection Bank 7				Injection Bank 8			
Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 21	Cooper In portion			Point 27A	Cooper In portion		
Point 22	Not yet installed			Point 27B	Not yet installed		
Point 23				Point 28			
Point 24				Point 29A			
Point 25A				Point 29B			
Point 25B				Point 30A			
Point 26A				Point 31A			
Point 26B				Point 31B			

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/1/09
 Time: _____
 Weather: _____
 Inside Trailer Temperature: _____
 Performed By: AE/JP

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 30
 Feed Air Pressure * 80 (psi)
 Cycle Pressure * 0-63 (psi)
 Oxygen Receiver Pressure * 62.5 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 115 (psi)
 Oxygen Purity _____ (percent)

Compressor Tank * 80 (psi)
 (readings below are made from control panel)
 Delivery Air 94 (psi)
 Element Outlet Temperature 170 (°F)
 Dewpoint _____
 Running Hours 27 (hours)
 Loading Hours 27 (hours)
 Motor Starts _____
 Regular Hours _____ (hours)
 Maximum Pressure _____ (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	30	23	Point 2A	67	24	25.5	Point 3A	65	28	24.5
Point 1B	46	26	16.5	Point 2B	46	25	16.5	Point 3B	46	26	16.5
Point 6A	65	31	24.5	Point 7A	65	31	25	Point 8A	71	28	28.5
Point 6B	46	26	16.5	Point 7B	46	22	17	Point 8B	46	26	16.5
Point 11	46	30	16.5	Point 12	46	26	16.5	Point 32A	63.5	30	24.5
Point 35	41	29	13.25	Point 36	36	28	11	Point 32B	36	24	11.5
Point 40	41	33	13.5	Point 41	41	31	14	Point 37	41	24	13.5
Point 45	31	31	9	Point 46	36	19	11.5	Point 42	36	30	11.5

← 27^{on}
3/31/09

Comments: 1B1-on - 806
 1B1-off - 819 - all flows set to 30 scfh
 1B2-on - 908
 1B2-off - 920 all flows set to 30 scfh
 1B3-on - 1008
 1B3-off - 1020 all flows set to 30 scfh

Date: 4/1/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 4A	69	28	26.5	Point 5A	65	24	25	Point 13	Cooper In portion		
Point 4B	46	26	17	Point 5B	46	24	16	Point 14	Not yet installed		
Point 9A	71	30	27.5	Point 10	56	30	21	Point 15			
Point 9B	46	30	17	Point 34	41	24	13	Point 16			
Point 33	42	28	16	Point 39	26	26	7	Point 17			
Point 38	36	27	11.5	Point 44	36	24	11.5	Point 18			
Point 43	31	28	9	-	-	-	-	Point 19	-	-	-
-	-	-	-	-	-	-	-	Point 20	-	-	-

Comments: IB4 on - 1108 Flow set to 30 scfh
IB4 off - 1120

IB5 on - 1208 Flow Rates set to
30 scfh
IB5 off - 1220

Injection Bank 7				Injection Bank 8			
	Depth	scfh	psi		Depth	scfh	psi
Point 21	Cooper In portion			Point 27A	Cooper In portion		
Point 22	Not yet installed			Point 27B	Not yet installed		
Point 23				Point 28			
Point 24				Point 29A			
Point 25A				Point 29B			
Point 25B				Point 30A			
Point 26A				Point 31A			
Point 26B				Point 31B			

Comments: IB7+8+6 in skip mode until Cooper Injection Line is installed.

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/1/09
 Time: _____
 Weather: _____
 Inside Trailer Temperature: _____
 Performed By: AE/SP

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours _____	Compressor Tank * _____ (psi)
Feed Air Pressure * _____ (psi)	(readings below are made from control panel)
Cycle Pressure * _____ (psi)	Delivery Air _____ (psi)
Oxygen Receiver Pressure * _____ (psi)	Element Outlet Temperature _____ (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) _____ (psi)	Dewpoint _____
Oxygen Purity _____ (percent)	Running Hours _____ (hours)
	Loading Hours _____ (hours)
	Motor Starts _____
	Regular Hours _____ (hours)
	Maximum Pressure _____ (psi)

* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1A	62	30	23.5	Point 2A	67	30	25.5	Point 3A	65	30	24.5
Point 1B	46	28	14.5	Point 2B	46	29	16.5	Point 3B	46	27	16.5
Point 6A	65	30	25	Point 7A	65	30	25	Point 8A	71	28	29
Point 6B	46	30	16.75	Point 7B	46	30	17	Point 8B	46	28	16.5
Point 11	46	30	16.5	Point 12	46	28	16.5	Point 32A	63.5	28	24.75
Point 35	41	28	13.5	Point 36	36	27	11	Point 32B	36	27	11.5
Point 40	41	27	13.5	Point 41	41	30	14	Point 37	41	28	13.5
Point 45	31	27	9	Point 46	36	27	11.5	Point 42	36	27	11.5

Comments: 1307 IB1 - on
 1320 IB1 - off - all flows set to 30scfh
 1407 IB2 - on
 1420 IB2 - off - all flows set to 30scfh
 1507 IB3 - on
 1520 IB3 - off - all flows set to 30scfh, Point 8A dropped from 29 to 28.5 over course of injection

(Handwritten signature)
 @ 1512

Date: 4/1/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6		
	Depth	scfh	psi		Depth	scfh	psi	Depth	scfh	psi
Point 4A	69	30	26.5	Point 5A	65	27	25	Point 13	Cooper In portion	
Point 4B	46	31	16.5	Point 5B	46	28	16.25	Point 14	Not yet installed	
Point 9A	71	30	27.5	Point 10	56	32	20.75	Point 15		
Point 9B	46	32	16.5	Point 34	41	29	13	Point 16		
Point 33	42	30	16.14	Point 39	26	29	7	Point 17		
Point 38	36	31	11.5	Point 44	36	29	11.5	Point 18		
Point 43	31	31	9	-	-	-	-	Point 19	-	-
-	-	-	-	-	-	-	-	Point 20	-	-

Comments: 1607-184-on
 1620-184-off - all flows set to 30scfh
 1707-185-on

Injection Bank 7				Injection Bank 8			
	Depth	scfh	psi		Depth	scfh	psi
Point 21	Cooper In portion			Point 27A	Cooper In portion		
Point 22	Not yet installed			Point 27B	Not yet installed		
Point 23				Point 28			
Point 24				Point 29A			
Point 25A				Point 29B			
Point 25B				Point 30A			
Point 26A				Point 31A			
Point 26B				Point 31B			

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/2/09
 Time: _____
 Weather: _____
 Inside Trailer Temperature: _____
 Performed By: AE

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 52
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0-92 (psi)
 Oxygen Receiver Pressure * 56 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 115 (psi)
 Oxygen Purity 93.5 (percent)
 * maximum reading during loading cycle

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 100 (psi)
 Element Outlet Temperature 150 (°F)
 Dewpoint _____
 Running Hours 46 (hours)
 Loading Hours 48 (hours)
 Motor Starts _____
 Regular Hours _____ (hours)
 Maximum Pressure _____ (psi)
 * maximum reading during loading cycle

Injection Bank 1

Injection Bank 2

Injection Bank 3

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1A	62	28	23.5	Point 2A	67	23	25.5	Point 3A	65	26	24.5
Point 1B	46	26	16.5	Point 2B	46	24	16.5	Point 3B	46	24	16.5
Point 6A	65	28	25	Point 7A	65	27	24.75	Point 8A	71	24	29
Point 6B	46	26	16.5	Point 7B	46	26	17	Point 8B	46	24	16.5
Point 11	46	28	16.5	Point 12	46	24	16.5	Point 32A	63.5	27	24.5
Point 35	41	26	13.25	Point 36	36	27	11	Point 32B	36	24	11.5
Point 40	41	27	13.5	Point 41	41	28	14	Point 37	41	23	13.5
Point 45	31	26	9	Point 46	36	22	11.5	Point 42	36	27	11.5

Comments: ~~1B1-on-8:07~~ (12) 1B2-on-1007 1B3-on-1107
 1B1-on-907 1B2-1012-readings taken 1B3-1112-readings taken
 1B1-912-readings taken 1B2-off-1020 1B3-1120-off
 1B1-off-920

Date: 4/2/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi	
Point 4A	69	23	26.5	Point 5A	65	26	25	Point 13	Cooper In portion		
Point 4B	46	22	16.5	Point 5B	46	26	16	Point 14	Not yet installed		
Point 9A	71	27	28.5	Point 10	56	30	20.5	Point 15			
Point 9B	46	24	16.5	Point 34	41	25	13	Point 16			
Point 33	42	21	14	Point 39	26	26	7	Point 17			
Point 38	36	23	11.5	Point 44	36	26	11.5	Point 18			
Point 43	31	24	9	-	-	-	-	Point 19	-	-	-
-	-	-	-	-	-	-	-	Point 20	-	-	-

Comments: 1B4-on - 1207
 1B4-1212 - remaining taken
 1B4-off - 1220
 1B5-on - 807
 1B5-off - 820

Injection Bank 7				Injection Bank 8			
Depth	scfh	psi		Depth	scfh	psi	
Point 21	Cooper In portion			Point 27A	Cooper In portion		
Point 22	Not yet installed			Point 27B	Not yet installed		
Point 23				Point 28			
Point 24				Point 29A			
Point 25A				Point 29B			
Point 25B				Point 30A			
Point 26A				Point 31A			
Point 26B				Point 31B			

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/13/09
 Time: 900
 Weather: SOS Rain
 Inside Trailer Temperature: 80
 Performed By: AD

O₂ Generator

Compressor (Kaeser Rotary Screw)

Hours	<u>69</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>100</u>	(readings below are made from control panel)		
Cycle Pressure *	<u>0-65</u>	Delivery Air	<u>88</u>	(psi)
Oxygen Receiver Pressure *	<u>61</u>	Element Outlet Temperature	<u>170</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Tank Pressure	<u>115</u>	Running Hours	<u>65</u>	(hours)
(reading from blue tank)	(psi)	Loading Hours	<u>67</u>	(hours)
Oxygen Purity	<u>93.0</u>	Motor Starts	<u>-</u>	
	(percent)	Regular Hours	<u>-</u>	(hours)
* maximum reading during loading cycle		Maximum Pressure	<u>-</u>	(psi)
		* maximum reading during loading cycle		

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	<u>26</u>	<u>23.25</u>	Point 2A	67	<u>30</u>	<u>25.5</u>	Point 3A	65	<u>24</u>	<u>24.5</u>
Point 1B	46	<u>28</u>	<u>16.5</u>	Point 2B	46	<u>24</u>	<u>16.5</u>	Point 3B	46	<u>19</u>	<u>16.5</u>
Point 6A	65	<u>28</u>	<u>24.75</u>	Point 7A	65	<u>28</u>	<u>24.75</u>	Point 8A	71	<u>20</u>	<u>29</u>
Point 6B	46	<u>25</u>	<u>16.75</u>	Point 7B	46	<u>25</u>	<u>17</u>	Point 8B	46	<u>19</u>	<u>16.5</u>
Point 11	46	<u>27</u>	<u>16.5</u>	Point 12	46	<u>24</u>	<u>16.5</u>	Point 32A	63.5	<u>24</u>	<u>24.5</u>
Point 35	41	<u>25</u>	<u>13.25</u>	Point 36	36	<u>27</u>	<u>11</u>	Point 32B	36	<u>18</u>	<u>11.25</u>
Point 40	41	<u>27</u>	<u>13.5</u>	Point 41	41	<u>26</u>	<u>14</u>	Point 37	41	<u>19</u>	<u>13.25</u>
Point 45	31	<u>26</u>	<u>9</u>	Point 46	36	<u>22</u>	<u>11.5</u>	Point 42	36	<u>24</u>	<u>11.5</u>

Comments: 107-1007-1B1-on 1107-1B2-on 1207-1B3-on
1012-readings taken 1112-readings taken, 1212-readings taken,
set flows to 32scfh set flows to 32scfh set flows to 32scfh
1020-1B1-off 1120-1B2-off 1220-1B3-off

Date: 4/3/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6			
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi	
Point 4A	69	28	26.5	Point 5A	65	24	25	Point 13	Cooper In portion
Point 4B	46	26	16.5	Point 5B	46	26	16.25	Point 14	Not yet installed
Point 9A	71	28	27.5	Point 10	56	28	20.75	Point 15	
Point 9B	46	28	16.75	Point 34	41	26	13	Point 16	
Point 33	42	26	14	Point 39	26	26	7	Point 17	
Point 38	36	24	11.5	Point 44	36	26	11.5	Point 18	
Point 43	31	27	9	-	-	-	-	Point 19	- - -
-	-	-	-	-	-	-	-	Point 20	- - -

Comments: 1307-184-on 907-185-on
 1312-readings taken, flows set to 32 scfh 912-readings taken, flows set to 32 scfh*
 1320-184-off 920-185-off

Injection Bank 7			Injection Bank 8		
Depth	scfh	psi	Depth	scfh	psi
Point 21	Cooper In portion		Point 27A	Cooper In portion	
Point 22	Not yet installed		Point 27B	Not yet installed	
Point 23			Point 28		
Point 24			Point 29A		
Point 25A			Point 29B		
Point 25B			Point 30A		
Point 26A			Point 31A		
Point 26B			Point 31B		

Comments: * set to 32 scfh instead of 30 scfh to see if flow rates will stay above 30 scfh after 5 mins of injection. Most start above 30 then after 5 mins drop below.

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/5/09
 Time: 6:18:00
 Weather: Sunny 50s
 Inside Trailer Temperature:
 Performed By: AE

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 118
 Feed Air Pressure * 100
~~62.5~~ (psi)
 Cycle Pressure * 0-70 (psi)
 Oxygen Receiver Pressure * 62.5
 (psi)
 Oxygen Receiver Tank Pressure
 (reading from blue tank) 115
 (psi)
 Oxygen Purity 94.0 (percent)
 * maximum reading during loading cycle

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 100 (psi)
 Element Outlet Temperature 167 (°F)
 Dewpoint -
 Running Hours 115 (hours)
 Loading Hours 119 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)
 * maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	29	23.25	Point 2A	67	25	25.5	Point 3A	65	28	24.5
Point 1B	46	24	16.25	Point 2B	46	26	16.5	Point 3B	46	27	16.5
Point 6A	65	28	25	Point 7A	65	29	24.75	Point 8A	71	29	29
Point 6B	46	27	16.5	Point 7B	46	24	17	Point 8B	46	27	16.5
Point 11	46	29	16.5	Point 12	46	26	16.75	Point 32A	63.5	28	24.5
Point 35	41	24	13.25	Point 36	36	27	11.25	Point 32B	36	26	11.25
Point 40	41	24	13.5	Point 41	41	29	14	Point 37	41	24	13.5
Point 45	31	23	9	Point 46	36	22	11.5	Point 42	36	28	11.5

Comments: 1807-182-on
 1812- readings taken + banks ^{1B} set to 32scfh.
 1820- 182-off
 1907-183-on
 1912- readings taken + 1Bs set to 32scfh
 1920- 183-off

Date: 4/5/07

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi	
Point 4A	69	28	26.5	Point 5A	65	26	25	Point 13	Cooper In portion		
Point 4B	46	28	17	Point 5B	46	25	16.25	Point 14	Not yet installed		
Point 9A	71	30	27.5	Point 10	56	29	20.75	Point 15			
Point 9B	46	28	16.75	Point 34	41	25	13	Point 16			
Point 33	42	28	14	Point 39	26	26	7	Point 17			
Point 38	36	28	11.5	Point 44	36	25	11.5	Point 18			
Point 43	31	30	9	-	-	-	-	Point 19	-	-	-
-	-	-	-	-	-	-	-	Point 20	-	-	-

Comments: 2007-184-on
 2012 - readings taken + flows set to 32 scfh
 2020 - 184-off
 2107 - 185-on
 2112 - readings taken + flows set to 32 scfh
 2120 - 185-off

Injection Bank 7				Injection Bank 8			
Depth	scfh	psi		Depth	scfh	psi	
Point 21	Cooper In portion			Point 27A	Cooper In portion		
Point 22	Not yet installed			Point 27B	Not yet installed		
Point 23				Point 28			
Point 24				Point 29A			
Point 25A				Point 29B			
Point 25B				Point 30A			
Point 26A				Point 31A			
Point 26B				Point 31B			

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 7/6/02
 Time: 800
 Weather: cloudy 50s
 Inside Trailer Temperature: _____
 Performed By: (AB)

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 133
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0 - ~67.5 (psi)
 Oxygen Receiver Pressure * ~61 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 115 ~~67.5~~ (psi)
 Oxygen Purity 92.0 (percent)

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 91 (psi)
 Element Outlet Temperature 170 (°F)
 Dewpoint -
 Running Hours 130 (hours)
 Loading Hours 135 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	38	23.5	Point 2A	67	32	25.5	Point 3A	65	33	24.5
Point 1B	46	38	16.5	Point 2B	46	34	16.5	Point 3B	46	33	16.5
Point 6A	65	35	25	Point 7A	65	32	25	Point 8A	71	33	29
Point 6B	46	33	16.5	Point 7B	46	34	17	Point 8B	46	33	16.5
Point 11	46	38	16.5	Point 12	46	32	16.5	Point 32A	63.5	33	24.5
Point 35	41	37	14.5 ^{13.5}	Point 36	36	30	11.25	Point 32B	36	36	11.5
Point 40	41	40	13.5	Point 41	41	32	14	Point 37	41	34	13.5
Point 45	31	40	9.25	Point 46	36	32	11.5	Point 42	36	36	11.5

Comments: 807 - 1B1 - on
 812 - readings taken + flows set to 32 scfh
 820 - 1B1 - off
 907 - 1B2 - on
 912 - readings taken + flows set to 32 scfh
 920 - 1B2 - off
 1006 - 1B3 - on
 1011 - readings taken + flows set to 32 scfh
 1019 - 1B3 - off

4/6/09

Date: 4/5/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi	
Point 4A	69	34	26.5	Point 5A	65	34	25	Point 13	Cooper In portion		
Point 4B	46	36	16.75	Point 5B	46	34	16.25	Point 14	Not yet installed		
Point 9A	71	32	27.5	Point 10	56	34	20.75	Point 15			
Point 9B	46	36	16.75	Point 34	41	33	13.25	Point 16			
Point 33	42	40	14	Point 39	26	34	7	Point 17			
Point 38	36	38	11.5	Point 44	36	35	11.5	Point 18			
Point 43	31	38	9.4	-	-	-	-	Point 19	-	-	-
-	-	-	-	-	-	-	-	Point 20	-	-	-

Comments: 1106-184-on
 1111-readings taken
 4200 1119-184-off

1206-185-on
 1211-readings taken + flows set to 32scfh.
 1220
 1219-185-off

Injection Bank 7			Injection Bank 8		
Depth	scfh	psi	Depth	scfh	psi
Point 21	Cooper In portion		Point 27A	Cooper In portion	
Point 22	Not yet installed		Point 27B	Not yet installed	
Point 23			Point 28		
Point 24			Point 29A		
Point 25A			Point 29B		
Point 25B			Point 30A		
Point 26A			Point 31A		
Point 26B			Point 31B		

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 061140-10-1905

Date: 4/7/09
 Time: 800
 Weather: 40s Sunny
 Inside Trailer Temperature: _____
 Performed By: (AG)

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 153
 Feed Air Pressure * 85 (psi)
 Cycle Pressure * 0-65 (psi)
 Oxygen Receiver Pressure * 60 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 115 (psi)
 Oxygen Purity 95.3 (percent)
 * maximum reading during loading cycle

Compressor Tank * 85 (psi)
 (readings below are made from control panel)
 Delivery Air 96 (psi)
 Element Outlet Temperature 172 (°F)
 Dewpoint _____
 Running Hours 156 (hours)
 Loading Hours 151 (hours)
 Motor Starts _____
 Regular Hours _____ (hours)
 Maximum Pressure _____ (psi)
 * maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	34	23.5	Point 2A	67	34	25.5	Point 3A	65	34	25
Point 1B	46	34	16.5	Point 2B	46	34	16.5	Point 3B	46	35	16.5
Point 6A	65	34	25	Point 7A	65	34	25	Point 8A	71	33	28.5
Point 6B	46	34	16.75	Point 7B	46	34	17.25	Point 8B	46	32	16.5
Point 11	46	33	16.5	Point 12	46	33	16.75	Point 32A	63.5	33	24.5
Point 35	41	33	13.5	Point 36	36	32	11.25	Point 32B	36	36	11.5
Point 40	41	34	13.5	Point 41	41	34	14	Point 37	41	33	13.5
Point 45	31	32	9.25	Point 46	36	31	11.5	Point 42	36	35	11.5

Comments: 9:06-1B1-on 1106-1B3-on
9:11 - readings taken + flows set to 30 scfh. 1114 - readings taken + flows set to 30 scfh
9:19 - 1B1-off 4:20 (AG) - 1B3-off
10:06-1B2-on 1119
10:11 - readings taken + flows set to 30 scfh
10:19 - 1B2-off

Date: 4/7/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6			
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi	
Point 4A	69	36	26.5	Point 5A	65	33	25	Point 13	Cooper In portion
Point 4B	46	36 34	17	Point 5B	46	35	16.5	Point 14	Not yet installed
Point 9A	71	35	27.5	Point 10	56	34	20.75	Point 15	
Point 9B	46	38	16.75	Point 34	41	36	13.25	Point 16	
Point 33	42	38	14	Point 39	26	35	7	Point 17	
Point 38	36	36	11.5	Point 44	36	37	11.5	Point 18	
Point 43	31	36	9.25	-	-	-	-	Point 19	- - -
-	-	-	-	-	-	-	-	Point 20	- - -

Comments: 1206 - 1B4-on 806 - 1B5-on
 1211 - readings taken + flows set to 20 scfh 811 - readings taken + flows set to 30 scfh *
 1219 - 1B4-off 819 - 1B5-off

Injection Bank 7			Injection Bank 8		
Depth	scfh	psi	Depth	scfh	psi
Point 21	Cooper In portion		Point 27A	Cooper In portion	
Point 22	Not yet installed		Point 27B	Not yet installed	
Point 23			Point 28		
Point 24			Point 29A		
Point 25A			Point 29B		
Point 25B			Point 30A		
Point 26A			Point 31A		
Point 26B			Point 31B		

Comments:

* flow rates are reading higher now, system may have caught up since startup. will set flow rates to 30 scfh.

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 093180-2-1202

Date: 11/16/09
 Time: 1000
 Weather: Clear, 50°
 Inside Trailer Temperature:
 Performed By: DRH

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 3242
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0-70 (psi)
 Oxygen Receiver Pressure * 65 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 60 (psi)
 Oxygen Purity 96.3 (percent)
 * maximum reading during loading cycle

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 99 (psi)
 Element Outlet Temperature 172 (°F)
 Dewpoint -
 Running Hours 3601 (hours)
 Loading Hours 3260 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)
 * maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	30	18	Point 2A	67	22	19	Point 3A	65	16	25
Point 1B	46	20	11	Point 2B	46	26	14	Point 3B	46	22	17
Point 6A	65	40	16	Point 7A	65	20	19	Point 8A	71	-	27
Point 6B	46	28	9	Point 7B	41	28	13	Point 8B	46	24	16
Point 11	46	24	6	Point 12	46	22	9	Point 32A	63.5	16	24
Point 35	41	20	10	Point 36	36	20	11	Point 32B	36	22	11
Point 40	41	20	6	Point 41	41	26	10	Point 37	41	17	13
Point 45	31	20	4	Point 46	36	24	6	Point 42	36	22	12

Comments: 1A → 0 flow after 3 min
 6A → "
 2A → "
 7A → "

Date: 11/16/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET

33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	69	<10	24	Point 5A	67	30	21	Point 16	40	24	4
Point 4B	46	70	17	Point 5B	65	22	16	Point 19	40	26	5
Point 9A	71	510	23	Point 10	56	32	17	Point 22	40	20	6
Point 9B	46	12	7	Point 34	36	28	13	Point 25A	60	20	10
Point 33	42	18	14	Point 39	26	28	7	Point 25B	29	26	10
Point 38	36	20	10	Point 44	41	28	11	Point 28	50	22	11
Point 43	31	20	12	-	-	-	-	Point 31A	69	24	14
-	-	-	-	-	-	-	-	Point 31B	40	24	13

Comments: 9A → 0 flow after 3 min
4A → 0 flow after 3 min

31A → 0 flow after 3 min
25A → 0 flow after 5 min

Injection Bank 7			Injection Bank 8				
Depth	scfh	psi	Depth	scfh	psi		
Point 14	39	30	6	Point 13	40	34	3
Point 17	40	30	6	Point 15	40	30	5
Point 20	40	30	9	Point 18	40	32	6
Point 23	40	28	9	Point 21	40	28	7
Point 26A	60	24	10	Point 24	55	22	8
Point 26B	29	26	9	Point 27A	65	20	10
Point 29A	66	20	11	Point 27B	33	22	8
Point 29B	40	20	10	Point 30	50	24	10

Comments: 29A → 0 flow after 2 min
29A → 0 flow after 3 min

30 → 0 flow after 2 min
24 → 0 flow after 5 min

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 093180-2-1202

Date: 11/17/09

Time: 0730

Weather: Clear, 50°

Inside Trailer Temperature: _____

Performed By: DRH

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours 3253

Feed Air Pressure * 90 (psi)

Cycle Pressure * 0-70 (psi)

Oxygen Receiver Pressure * 65 (psi)

Oxygen Receiver Tank Pressure (reading from blue tank) 90 (psi)

Oxygen Purity 94.5 (percent)

* maximum reading during loading cycle

Compressor Tank * 100 (psi)

(readings below are made from control panel)

Delivery Air 98 (psi)

Element Outlet Temperature 163 (°F)

Dewpoint -

Running Hours 3614 (hours)

Loading Hours 3272 (hours)

Motor Starts -

Regular Hours - (hours)

Maximum Pressure - (psi)

* maximum reading during loading cycle

Injection Bank 1

Injection Bank 2

Injection Bank 3

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	22	19	Point 2A	67	34	14	Point 3A	65	28	15
Point 1B	46	24	16	Point 2B	46	20	11	Point 3B	46	26	12
Point 6A	65	30	17	Point 7A	65	46	14	Point 8A	71	42	17
Point 6B	46	28	13	Point 7B	41	30	10	Point 8B	46	28	10
Point 11	46	27	9	Point 12	46	26	5	Point 32A	63.5	26	16
Point 35	41	17	14	Point 36	36	17	8	Point 32B	36	18	11
Point 40	41	26	10	Point 41	41	28	6	Point 37	41	18	11
Point 45	31	27	6	Point 46	36	26	4	Point 42	36	20	7

Comments:

1A → 0 flow after 3min
 6A → " "
 7A → " "
 2A → 0 flow after 4min

8A → 0 flow after 6min

Date: 11/17/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	69	24	17	Point 5A	67	22	21	Point 16	40	20	15
Point 4B	46	24	15	Point 5B	65	20	16	Point 19	40	22	14
Point 9A	71	24	12	Point 10	56	20	16	Point 22	40	20	14
Point 9B	46	24	10	Point 34	36	24	13	Point 25A	60	20	19
Point 33	42	25	14	Point 39	26	22	7	Point 25B	29	24	10
Point 38	36	22	10	Point 44	41	20	11	Point 28	50	20	17
Point 43	31	24	9	-	-	-	-	Point 31A	69	18	20
-	-	-	-	-	-	-	-	Point 31B	40	22	15

Comments: ⊖ 31A → 0 flow after 3 min
psi-27

Injection Bank 7			Injection Bank 8				
Depth	scfh	psi	Depth	scfh	psi		
Point 14	39	20	14	Point 13	40	23	4
Point 17	40	20	12	Point 15	40	20	7
Point 20	40	24	15	Point 18	40	22	8
Point 23	40	20	14	Point 21	40	22	9
Point 26A	60	22	16	Point 24	55	22	12
Point 26B	29	22	17	Point 27A	65	22	13
Point 29A	66	22	15	Point 27B	33	24	12
Point 29B	40	20	15	Point 30	50	24	19

Comments: 29A → 0 flow at 3 min psi-19
 26A → 0 flow at 4 min psi-19

Date: 11/17/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) None
- 3) Other major activities completed _____
- 4) Supplies needed _____
- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 093180-2-1202

Date: 11/18/09
 Time: 0815
 Weather: Clear, 50's
 Inside Trailer Temperature: _____
 Performed By: DRH

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours	<u>3267</u>	Compressor Tank *	<u>90</u>	(psi)
Feed Air Pressure *	<u>90</u> (psi)	(readings below are made from control panel)		
Cycle Pressure *	<u>0-65</u> (psi)	Delivery Air	<u>82</u>	(psi)
Oxygen Receiver Pressure *	<u>52</u> (psi)	Element Outlet Temperature	<u>172</u>	(°F)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>90</u> (psi)	Dewpoint	-	
Oxygen Purity	<u>97.0</u> (percent)	Running Hours	<u>3630</u>	(hours)
* maximum reading during loading cycle		Loading Hours	<u>3285</u>	(hours)
		Motor Starts	-	
		Regular Hours	-	(hours)
		Maximum Pressure	-	(psi)
		* maximum reading during loading cycle		

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	0	19	Point 2A	67	0	19	Point 3A	65	24	25
Point 1B	46	28	16	Point 2B	46	16	16	Point 3B	46	20	16
Point 6A	65	0	19	Point 7A	65	0	19	Point 8A	71	0	26
Point 6B	46	21	16	Point 7B	41	30	16	Point 8B	46	21	16
Point 11	46	26	16	Point 12	46	24	16	Point 32A	63.5	20	24
Point 35	41	34	14	Point 36	36	30	16	Point 32B	36	22	11
Point 40	41	24	14	Point 41	41	28	14	Point 37	41	22	13
Point 45	31	30	9	Point 46	36	26	11	Point 42	36	22	12

Comments: Reduced to ~~flow~~ zero in all points except 6A + 1A in bank 1. Flow was in 6A in 1A + 50 + 6A.

Date: 4/18/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Injection Bank 4				Injection Bank 5				Injection Bank 6			
Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi	
Point 4A	69	22	26	Point 5A	67	21	21	Point 16	40	18	14
Point 4B	46	20	17	Point 5B	65	22	16	Point 19	40	20	15
Point 9A	71	24	17	Point 10	56	20	16	Point 22	40	20	15
Point 9B	46	22	17	Point 34	36	23	14	Point 25A	60	18	19
Point 33	42	22	14	Point 39	26	22	7	Point 25B	29	24	10
Point 38	36	20	11	Point 44	41	24	11	Point 28	50	18	R
Point 43	31	20	9	-	-	-	-	Point 31A	69	12	25
-	-	-	-	-	-	-	-	Point 31B	40	22	15

Comments: O₂ value → 40-30 psi; O₂ value → 60-40; O₂ value → 30 psi
 31A → 0 flow at 5 min

Injection Bank 7				Injection Bank 8			
Depth	scfh	psi		Depth	scfh	psi	
Point 14	39	26	15	Point 13	40	22	6
Point 17	40	26	12	Point 15	40	18	9
Point 20	40	28	15	Point 18	40	20	10
Point 23	40	26	14	Point 21	40	20	10
Point 26A	60	0	20	Point 24	55	18	12
Point 26B	29	24	13	Point 27A	65	20	12
Point 29A	66	0	20	Point 27B	33	22	13
Point 29B	40	25	15	Point 30	50	20	15

Comments: O₂ value → 20-25 psi; O₂ value → 40-30 psi
 24 + 27A → dropped to ~10 after 10 min

Date: 10/18/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) _____ Normal (green) _____ High (orange) _____
Yes _____ No _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No X
- 2) Coalescing changed Yes _____ No X

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes X No _____
- 2) Abnormal conditions observed (e.g. vandalism) giant bag of beef jerky
outside gate.
- 3) Other major activities completed _____
- 4) Supplies needed _____
- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

oil around oil/water separator

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 093180-2-1202

Date: 11/25
 Time: 0645
 Weather: overcast, 50°
 Inside Trailer Temperature: 75°
 Performed By: DRH

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours	<u>3304</u>	Compressor Tank *	<u>85</u>	(psi)
Feed Air Pressure *	<u>100</u> (psi)	(readings below are made from control panel)		
Cycle Pressure *	<u>0.70</u> (psi)	Delivery Air	<u>83</u>	(psi)
Oxygen Receiver Pressure *	<u>55</u> (psi)	Element Outlet Temperature	<u>172</u>	(°F)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>65</u> (psi)	Dewpoint	<u>-</u>	
Oxygen Purity	<u>100</u> (percent)	Running Hours	<u>3324</u>	<u>3673</u> (hours)
* maximum reading during loading cycle		Loading Hours	<u>3073</u>	<u>3324</u> (hours)
		Motor Starts	<u>-</u>	
		Regular Hours	<u>-</u>	(hours)
		Maximum Pressure	<u>-</u>	(psi)
		* maximum reading during loading cycle		

Injection Bank 1				Injection Bank 2				Injection Bank 3			
<u>1357</u>	Depth	scfh	psi	<u>0657</u>	Depth	scfh	psi	<u>0757</u>	Depth	scfh	psi
Point 1A	62	32	23	Point 2A	67	36	25	Point 3A	65	28	25
Point 1B	46	30	16	Point 2B	46	39	17	Point 3B	46	25	16.5
Point 6A	65	30	25	Point 7A	65	36	25	Point 8A	71	28	28.5
Point 6B	46	26	16.5	Point 7B	41	36	17	Point 8B	46	24	16.5
Point 11	46	30	16.5	Point 12	46	35	17	Point 32A	63.5	26	24
Point 35	41	32	13	Point 36	36	35	11	Point 32B	36	23	11
Point 40	41	28	13.5	Point 41	41	35	14	Point 37	41	26	13
Point 45	31	26	9	Point 46	36	36	11	Point 42	36	28	11.5

Comments:

516-790-1660 Bill

Date: 11/25

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

0857 Injection Bank 4				0957 Injection Bank 5				1057 Injection Bank 6			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 4A	69	27	26.5	Point 5A	67	20	22.5	Point 16	40	23	15
Point 4B	46	24	16.5	Point 5B	65	18	16	Point 19	40	22	14.5
Point 9A	71	27	24	Point 10	56	16	19	Point 22	40	20	14.5
Point 9B	46	20	16.5	Point 34	36	26	13	Point 25A	60	20	24
Point 33	42	27	14	Point 39	26	28	7	Point 25B	29	26	10
Point 38	36	36	11	Point 44	41	27	11	Point 28	50	16	19
Point 43	31	43	9.5	-	-	-	-	Point 31A	69	22	27.5
-	-	-	-	-	-	-	-	Point 31B	40	22	14.5

Comments:
 110/95 - 7min
 70/70

1157 Injection Bank 7				1257 Injection Bank 8			
	Depth	scfh	psi		Depth	scfh	psi
Point 14	39	30	15	Point 13	40	36	11
Point 17	40	30	12.5	Point 15	40	26	15
Point 20	40	28	15	Point 18	40	30	15
Point 23	40	30	14.5	Point 21	40	28	14
Point 26A	60	30	23.5	Point 24	55	30	21
Point 26B	29	16	13	Point 27A	65	28	26
Point 29A	66	23	27	Point 27B	33	30	12.5
Point 29B	40	0	9	Point 30	50	30	19

Comments: 29B maintained flow
 of ~28 scfh after adjusting

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 National Grid
 OU-2 Interim Remedial Measure
 Project No. 093180-2-1202

Date: 12/22/09
 Time: 0700
 Weather: clear, 25°
 Inside Trailer Temperature: 75°
 Performed By: DRH

O₂ Generator

Compressor (Kaesar Rotary Screw)

Hours	<u>3556</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>100</u> (psi)	(readings below are made from control panel)		
Cycle Pressure *	<u>0/70</u> (psi)	Delivery Air	<u>85</u>	(psi)
Oxygen Receiver Pressure *	<u>57.5</u> (psi)	Element Outlet Temperature	<u>183</u>	(°F)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>65</u> (psi)	Dewpoint	<u>-</u>	
Oxygen Purity	<u>92.5</u> (percent)	Running Hours	<u>3944</u>	(hours)
		Loading Hours	<u>3576</u>	(hours)
		Motor Starts	<u>-</u>	
		Regular Hours	<u>-</u>	(hours)
		Maximum Pressure	<u>-</u>	(psi)

* maximum reading during loading cycle

<u>1213-1226</u> Injection Bank 1				<u>1313-1326</u> Injection Bank 2				<u>1413-1426</u> Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	62	30	23	Point 2A	67	28	26	Point 3A	65	28	25
Point 1B	46	30	16	Point 2B	46	32	17	Point 3B	46	30	16.5
Point 6A	65	32	25	Point 7A	65	34	25	Point 8A	71	26	28.5
Point 6B	46	26	17	Point 7B	41	32	17.5	Point 8B	46	30	16.5
Point 11	46	32	17	Point 12	46	30	17	Point 32A	63.5	26	24
Point 35	41	32	13.5	Point 36	36	33	11	Point 32B	36	33	11.5
Point 40	41	34	14	Point 41	41	31	14	Point 37	41	28	13.5
Point 45	31	32	9.5	Point 46	36	28	11.5	Point 42	36	30	12

Comments:

Date: 12/22/09

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
33 N. Clinton Oxygen Injection Remedial System

713-726 Injection Bank 4				813-826 Injection Bank 5				913-926 Injection Bank 6			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 4A	69	26	27	Point 5A	67	28	25	Point 16	40	22	15.5
Point 4B	46	32	17	Point 5B	65	28	16	Point 19	40	25	14.5
Point 9A	71	28	27	Point 10	56	30	20.5	Point 22	40	24	14.5
Point 9B	46	30	17	Point 34	36	32	13.5	Point 25A	60	26	24
Point 33	42	35	14	Point 39	26	32	7	Point 25B	29	26	10
Point 38	36	80	12	Point 44	41	32	12	Point 28	50	24	19
Point 43	31	25	9.5	-	-	-	-	Point 31A	69	26	27.5
-	-	-	-	-	-	-	-	Point 31B	40	28	15

adjust to ~ 28-30 scfh
Comments:

1013-1026 Injection Bank 7				1113-1126 Injection Bank 8			
	Depth	scfh	psi		Depth	scfh	psi
Point 14	39	30	15.5	Point 13	40	34	14
Point 17	40	30	12.5	Point 15	40	28	15
Point 20	40	30	15	Point 18	40	point off	
Point 23	40	30	14.5	Point 21	40	62	15
Point 26A	60	30	23.5	Point 24	55	point off	
Point 26B	29	32	13	Point 27A	65	92	26
Point 29A	66	26	26	Point 27B	33	point off	
Point 29B	40	26	15	Point 30	50	30	19

scfh psi
*24 - 28 21
27B - 28 13
Not sure why points
24 & 27B were off,
after adjusting both
held pressure + flow
for remaining duration
the bank was on (10 min)

Comments:

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/20/2009</u>
	Time: <u>-</u>
	Weather: <u>20s</u>
	Inside Trailer Temperature: <u>70s</u>
	Performed By: <u>JP</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
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Hours	<u>10</u>	Compressor Tank *	<u>-</u>	(psi)
Feed Air Pressure *	<u>110</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u> </u>	(psi)
Cycle Pressure *	<u>0-70</u>	Element Outlet Temperature	<u> </u>	(°F)
	(psi)	Dewpoint	<u> </u>	
Oxygen Receiver Pressure *	<u>-</u>	Running Hours	<u> </u>	(hours)
	(psi)	Loading Hours	<u> </u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>-</u>	Motor Starts	<u> </u>	
	(psi)	Regular Hours	<u> </u>	(hours)
Oxygen Purity	<u>92.3</u>	Maximum Pressure	<u> </u>	(psi)
	(percent)	* maximum reading during loading cycle		

* maximum reading during loading cycle											
--	--	--	--	--	--	--	--	--	--	--	--

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65	30	>30	Point 3A	65	30	27.5	Point 5A	65	30	28
Point 1B	45	30	18	Point 3B	45	30	15	Point 5B	45	30	16.5
Point 2	30	30	13	Point 4	30	30	10	Point 6	30	30	8.5
Point 13A	65	30	24.5	Point 15A	65	30	20	Point 17A	65	30	24
Point 13B	45	-	-	Point 15B	45	30	16.5	Point 17B	45	30	16.5
Point 14	30	30	10	Point 16	30	30	10	Point 18	30	30	10
Point 25A	45	30	17	Point 26A	45	30	17	-	-	-	-
Point 25B	30	30	10	Point 26B	30	30	10	-	-	-	-

Comments: IB on - 1214, IB off - 1224
 pressure stayed stable at 30
 SCFH for duration

IB on - 1314, IB off - 1324

IB on - 1414, IB off - 1514,
 6: Low pressure ~ 10
 Low pressure ~25 - 30

Point
 Point 17A:

system serial # - 10553

Date: 1/20/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	30	28	Point 9A	65	30	>30	Point 11A	65	30	27.5
Point 7B	45	30	17	Point 9B	45	30	blocked	Point 11B	45	30	16.5
Point 8	30	30	10.5	Point 10	30	30	10	Point 12	30	30	10
Point 19A	65	30	29	Point 21A	65	30	25.5	Point 23	65	30	28
Point 19B	45	30	17	Point 21B	45	30	17	Point 24A	55	30	21.5
Point 20	30	30	10.5	Point 22	30	30	10	Point 24B	30	30	10.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments:

IB on - 1514, IB off - 1524

IB on - 1614, IB off - 1624

IB on - 1114, IB off - 1124, system finished recharge 1155, flow rates are being maintained at 30 SCFH

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/20/2009</u>
	Time: <u>-</u>
	Weather: <u>20s</u>
	Inside Trailer Temperature: <u>70s</u>
	Performed By: <u>JP/AE</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours _____	Compressor Tank * _____ (psi)
Feed Air Pressure * _____ (psi)	(readings below are made from control panel)
Cycle Pressure * _____ (psi)	Delivery Air _____ (psi)
Oxygen Receiver Pressure * _____ (psi)	Element Outlet Temperature _____ (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) _____ (psi)	Dewpoint _____
Oxygen Purity _____ (percent)	Running Hours _____ (hours)
	Loading Hours _____ (hours)
	Motor Starts _____
	Regular Hours _____ (hours)
	Maximum Pressure _____ (psi)
* maximum reading during loading cycle	* maximum reading during loading cycle

Injection Bank 1	Injection Bank 2	Injection Bank 3
-------------------------	-------------------------	-------------------------

	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65	30	29	Point 3A	65	30	29	Point 5A	65	30	>30
Point 1B	45	30	18	Point 3B	45	30	15	Point 5B	45	30	16.5
Point 2	30	30	15	Point 4	30	30	10.5	Point 6	30	30	8.5
Point 13A	65	30	~25	Point 15A	65	30	>30	Point 17A	65	30	11
Point 13B	45	30	16	Point 15B	45	30	17	Point 17B	45	30	16.5
Point 14	30	30	10	Point 16	30	30	9.5	Point 18	30	30	10
Point 25A	45	30	17	Point 26A	45	30	16	-	-	-	-
Point 25B	30	30	10	Point 26B	30	30	10.5	-	-	-	-

Comments: IB on - 1814, IB off - 1824 IB on - 1914, IB off - 1923 IB on - 2013, IB off - 2023

Date: 1/20/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5			Injection Bank 6			
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi	
Point 7A	65		Point 9A	65		Point 11A	65	30	28
Point 7B	45		Point 9B	45		Point 11B	45	30	16.5
Point 8	30		Point 10	30		Point 12	30	30	10
Point 19A	65		Point 21A	65		Point 23	65	30	28
Point 19B	45		Point 21B	45		Point 24A	55	30	21.5
Point 20	30		Point 22	30		Point 24B	30	30	10.5
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Comments:

IB on - 1713, IB off - 1723

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

Date: 1/21/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	34	28.5	Point 9A	65	40	> 30	Point 11A	65	35	27.5
Point 7B	45	32	17	Point 9B	45	-	17	Point 11B	45	32	16.5
Point 8	30	36	10.5	Point 10	30	32	10	Point 12	30	35	10
Point 19A	65	26	29.5	Point 21A	65	40	26	Point 23	65	30	28
Point 19B	45	38	17	Point 21B	45	42	16.5	Point 24A	55	34	21.5
Point 20	30	36	10.5	Point 22	30	32	10	Point 24B	30	32	10.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments: IB on - 914, IB off - 924 IB on - 1014, IB off - 1024, JP sets injection time from 10 minutes to 13 minutes IB on - 1114, IB off - 1126

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
 4) Oil changed Yes _____ No _____
 5) Oil filter changed Yes _____ No _____
 6) Air filter Changed Yes _____ No _____
 7) Oil separator changed Yes _____ No _____
 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/21/2009</u>
	Time: <u>-</u>
	Weather: <u>20's</u>
	Inside Trailer Temperature: <u>70's</u>
	Performed By: <u>JP</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours	<u>27</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>62</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>96</u>	(psi)
Cycle Pressure *	<u>0-70</u>	Element Outlet Temperature	<u>147</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u>120</u>	Running Hours	<u>25</u>	(hours)
	(psi)	Loading Hours	<u>24</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>120</u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u>96.9</u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)	* maximum reading during loading cycle		

Injection Bank 1			Injection Bank 2			Injection Bank 3			
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	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65			Point 3A	65			Point 5A	65	30	28
Point 1B	45			Point 3B	45			Point 5B	45	30	16.5
Point 2	30			Point 4	30			Point 6	30	30	8.5
Point 13A	65			Point 15A	65			Point 17A	65	30	24.5
Point 13B	45			Point 15B	45			Point 17B	45	30	16.5
Point 14	30			Point 16	30			Point 18	30	30	10
Point 25A	45			Point 26A	45			-	-	-	-
Point 25B	30			Point 26B	30			-	-	-	-

Comments: IB on - 1414, IB off - 1427, Point 17A: pressure builds slowly

Date: 1/21/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	30	28.5	Point 9A	65	30	> 30	Point 11A	65		
Point 7B	45	30	17	Point 9B	45	30	-	Point 11B	45		
Point 8	30	30	10.5	Point 10	30	30	10	Point 12	30		
Point 19A	65	30	29	Point 21A	65	30	26	Point 23	65		
Point 19B	45	30	17	Point 21B	45	30	16.5	Point 24A	55		
Point 20	30	30	10	Point 22	30	30	10	Point 24B	30		
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments:

IB on - 1514

IB on - 1613, IB off - 1626

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/22/2009</u>
	Time: <u>-</u>
	Weather: <u>20's</u>
	Inside Trailer Temperature: <u>70's</u>
	Performed By: <u>JP</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours	<u>32</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>120</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>97</u>	(psi)
Cycle Pressure *	<u>0-70</u>	Element Outlet Temperature	<u>131</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u>65</u>	Running Hours	<u>31</u>	(hours)
	(psi)	Loading Hours	<u>30</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>65</u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u>94.4</u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)			
* maximum reading during loading cycle		* maximum reading during loading cycle		

Injection Bank 1	Injection Bank 2	Injection Bank 3
-------------------------	-------------------------	-------------------------

	<u>Depth</u>	<u>scfh</u>	<u>psi</u>		<u>Depth</u>	<u>scfh</u>	<u>psi</u>		<u>Depth</u>	<u>scfh</u>	<u>psi</u>
Point 1A	65	36	29.5	Point 3A	65	30	27	Point 5A	65	30	28
Point 1B	45	35	18	Point 3B	45	30	15	Point 5B	45	30	16.5
Point 2	30	38	13	Point 4	30	32	10.5	Point 6	30	30	8.5
Point 13A	65	34	24.5	Point 15A	65	30	26	Point 17A	65	28	17
Point 13B	45	34	16.5	Point 15B	45	32	16.5	Point 17B	45	30	16.5
Point 14	30	38	10.5	Point 16	30	32	10	Point 18	30	30	10
Point 25A	45	34	17	Point 26A	45	30	16.5	-	-	-	-
Point 25B	30	40	10.5	Point 26B	30	38	10	-	-	-	-

Comments: IB on - 1213, IB off - 1226 IB on - 1313, IB off - 1327 IB on - 1413, IB off - 1426

Date: 1/22/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	20	28	Point 9A	65	15	28.5	Point 11A	65	28	26.5
Point 7B	45	20	17	Point 9B	45	-	-	Point 11B	45	30	16.5
Point 8	30	25	10	Point 10	30	12	10	Point 12	30	30	10
Point 19A	65	25	28.5	Point 21A	65	22	26	Point 23	65	30	28
Point 19B	45	20	17	Point 21B	45	20	16.5	Point 24A	55	30	21.5
Point 20	30	15	10	Point 22	30	10	10	Point 24B	30	30	10.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments: IB on - 914, flows IB on - 1013, flows + IB on - 1113, flows +
 + pressures stabilize - 1916 - pressures stabilize - 1016 - JP sets flows to 30 pressures stabilize - 1116 - JP sets flows to 30
 JP sets flows to 30 SCFH, SCFH, IB off - 1026 SCFH, 1126 IB off -
 IB off - 927 Point 9B - off, screen clogged with grout

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
 4) Oil changed Yes _____ No _____
 5) Oil filter changed Yes _____ No _____
 6) Air filter Changed Yes _____ No _____
 7) Oil separator changed Yes _____ No _____
 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/23/2009</u>
	Time: <u>-</u>
	Weather: <u>40's</u>
	Inside Trailer Temperature: <u>70's</u>
	Performed By: <u>JP</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours	<u>41</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>120</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>100</u>	(psi)
Cycle Pressure *	<u>0-70</u>	Element Outlet Temperature	<u>145</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u>65</u>	Running Hours	<u>38</u>	(hours)
	(psi)	Loading Hours	<u>40</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>65</u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u>92.2</u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)			
* maximum reading during loading cycle		* maximum reading during loading cycle		

Injection Bank 1	Injection Bank 2	Injection Bank 3
-------------------------	-------------------------	-------------------------

	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65	34	29.5	Point 3A	65	22	27	Point 5A	65	28	28
Point 1B	45	38	18	Point 3B	45	20	15	Point 5B	45	32	16.5
Point 2	30	38	13.5	Point 4	30	12	10.5	Point 6	30	30	8.5
Point 13A	65	32	24.5	Point 15A	65	25	26	Point 17A	65	28	24.5
Point 13B	45	30	16.5	Point 15B	45	26	17	Point 17B	45	32	17.5
Point 14	30	34	10	Point 16	30	0	10	Point 18	30	34	10
Point 25A	45	36	17	Point 26A	45	30	16.5	-	-	-	-
Point 25B	30	34	10.5	Point 26B	30	22	10.5	-	-	-	-

Comments: IB on - 1213, IB off - 1226 IB on - 1313, IB off - 1326 IB on - 1413, IB off - 1426

Date: 1/23/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	28	27.5	Point 9A	65	24	28	Point 11A	65	40	27
Point 7B	45	30	17	Point 9B	45	-	-	Point 11B	45	40	16.5
Point 8	30	30	10.5	Point 10	30	28	10	Point 12	30	50	10
Point 19A	65	30	28	Point 21A	65	20	26.5	Point 23	65	25	28
Point 19B	45	30	17	Point 21B	45	16	16.5	Point 24A	55	40	21.5
Point 20	30	28	10	Point 22	30	20	10	Point 24B	30	42	10.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments: IB on - 1513, IB off - 1526 IB on - 1613, IB off - 1626 IB on - 1113, and pressures stabilize - 1116, 1127 flows IB off -

OPERATIONAL NOTES

GA5 Air Compressor

1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi

2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____

3) Oil added Yes _____ No _____
 4) Oil changed Yes _____ No _____
 5) Oil filter changed Yes _____ No _____
 6) Air filter Changed Yes _____ No _____
 7) Oil separator changed Yes _____ No _____
 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

1) Prefilter changed Yes _____ No _____
 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/25/2009</u>
	Time: <u>-</u>
	Weather: <u>30's</u>
	Inside Trailer Temperature: <u>70's</u>
	Performed By: <u>AE</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours	<u>63</u>	Compressor Tank *	<u>70</u>	(psi)
Feed Air Pressure *	<u>100</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>95</u>	(psi)
Cycle Pressure *	<u>0-65</u>	Element Outlet Temperature	<u>172</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u>70</u>	Running Hours	<u>63</u>	(hours)
	(psi)	Loading Hours	<u>61</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>45 *</u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u>89.0</u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)			
* maximum reading during loading cycle		* maximum reading during loading cycle		

Injection Bank 1	Injection Bank 2	Injection Bank 3
-------------------------	-------------------------	-------------------------

	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65	30	30	Point 3A	65	47	27	Point 5A	65	44	28
Point 1B	45	30	18	Point 3B	45	38	15	Point 5B	45	44	17
Point 2	30	30	13	Point 4	30	34	11	Point 6	30	32	8.5
Point 13A	65	30	25	Point 15A	65	34	> 30	Point 17A	65	48	24.5
Point 13B	45	30	16.5	Point 15B	45	40	17	Point 17B	45	42	16.5
Point 14	30	30	10	Point 16	30	34	10	Point 18	30	40	10
Point 25A	45	30	17	Point 26A	45	40	16.5	-	-	-	-
Point 25B	30	30	10	Point 26B	30	28	10.5	-	-	-	-

Comments:

IB on - 1813, IB off - 1826
 IB on - 1913, IB off - 1926
 IB on - 2012, IB off - 2026

* reading taken from gauge on left side of 120 gal tank

Date: 1/25/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5				Injection Bank 6				
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	40	28	Point 9A	65	40	> 30	Point 11A	65	16	26.5
Point 7B	45	36	17	Point 9B	45	-	-	Point 11B	45	12	16.5
Point 8	30	44	10.5	Point 10	30	35	10	Point 12	30	12	10
Point 19A	65	35	28	Point 21A	65	40	26	Point 23	65	32	28
Point 19B	45	42	17	Point 21B	45	40	17	Point 24A	55	22	21.5
Point 20	30	45	10.5	Point 22	30	34	10.5	Point 24B	30	17	10.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments:

IB on - 2113, IB off - 2126

IB on - 2213, IB off - 2226

IB on - 1713, IB off - 1726

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
 4) Oil changed Yes _____ No _____
 5) Oil filter changed Yes _____ No _____
 6) Air filter Changed Yes _____ No _____
 7) Oil separator changed Yes _____ No _____
 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>1/26/2009</u>
	Time: <u>-</u>
	Weather: <u>20's</u>
	Inside Trailer Temperature: <u>70's</u>
	Performed By: <u>JP</u>

O₂ Generator	Compressor (Kaesar Rotary Screw)
--------------------------------	---

Hours	<u>71</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>120</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>84</u>	(psi)
Cycle Pressure *	<u>0-70</u>	Element Outlet Temperature	<u>180</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u>60</u>	Running Hours	<u>69</u>	(hours)
	(psi)	Loading Hours	<u>72</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>120</u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u>93.0</u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)			
* maximum reading during loading cycle		* maximum reading during loading cycle		

Injection Bank 1	Injection Bank 2	Injection Bank 3
-------------------------	-------------------------	-------------------------

	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	65	32	28	Point 3A	65	30	26.5	Point 5A	65	30	28
Point 1B	45	32	17.5	Point 3B	45	30	15	Point 5B	45	30	16.5
Point 2	30	30	13	Point 4	30	30	10.5	Point 6	30	30	8.5
Point 13A	65	32	24.5	Point 15A	65	30	25	Point 17A	65	30	24.5
Point 13B	45	32	16.5	Point 15B	45	30	16.5	Point 17B	45	30	16.5
Point 14	30	31	10	Point 16	30	32	10	Point 18	30	30	10
Point 25A	45	31	17	Point 26A	45	32	16.5	-	-	-	-
Point 25B	30	36	10.5	Point 26B	30	31	10.5	-	-	-	-

Comments:

IB on - 1213, IB off - 1226
 IB on - 1313, IB off - 1326
 IB on - 1413, IB off - 1426

Date: 1/26/2009

**OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
34 N. Clinton Oxygen Injection Remedial System**

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 7A	65	30	27.5	Point 9A	65	30	27.5	Point 11A	65	30	26.5
Point 7B	45	30	17	Point 9B	45	-	-	Point 11B	45	30	16.5
Point 8	30	30	10.5	Point 10	30	30	10	Point 12	30	30	10
Point 19A	65	50	27.5	Point 21A	65	30	26	Point 23	65	32	27
Point 19B	45	30	17	Point 21B	45	30	16.5	Point 24A	55	30	21.5
Point 20	30	32	10	Point 22	30	30	10	Point 24B	30	30	10
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Comments:

IB on - 1513, IB off - 1526

IB on - 1613, IB off - 1626

IB on - 1113, IB off - 1126

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/16/2009
 Time: -
 Weather: 40's
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours	<u>5</u>	Compressor Tank *	<u>100</u>	(psi)
Feed Air Pressure *	<u>60</u>	(readings below are made from control panel)		
	(psi)	Delivery Air	<u>59</u>	(psi)
Cycle Pressure *	<u>40</u>	Element Outlet Temperature	<u>68</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Pressure *	<u> </u>	Running Hours	<u>12</u>	(hours)
	(psi)	Loading Hours	<u>12</u>	(hours)
Oxygen Receiver Tank Pressure (reading from blue tank)	<u> </u>	Motor Starts	<u>-</u>	
	(psi)	Regular Hours	<u>-</u>	(hours)
Oxygen Purity	<u> </u>	Maximum Pressure	<u>-</u>	(psi)
	(percent)	* maximum reading during loading cycle		

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	28	11	Point 2A	32	30	11.5	Point 3A	25	30	8
Point 7A	30	30	10	Point 8A	45	30	17	Point 3B	35	30	12
Point 7B	64	30	30	Point 8B	64	30	24.5	Point 9A	45	34	16
Point 13A	25	32	7.5	Point 8C	25	30	7.5	Point 9B	64	30	23
Point 13B	52	32	21	Point 14A	25	30	8	Point 9C	25	30	7.5
Point 19A	25	32	8	Point 14B	52	30	19	Point 15A	25	32	8
Point 19B	44	30	17	Point 20A	25	28	8	Point 15B	44	34	15.5
-	-	-	-	Point 20B	42	28	16	-	-	-	-

Comments:

IB on - 1613, IB off - 1626

IB on - 1714, IB off - 1727

Date: 2/16/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	30	8	Point 5A	25	30	7	Point 6A	30	30	8
Point 4B	39	28	14	Point 5B	42	32	14.5	Point 6B	52	30	20
Point 10A	45	28	16.5	Point 11A	45	30	16.5	Point 12A	25	30	7.5
Point 10B	64	28	26	Point 11B	64	35	24.5	Point 12B	54	30	22.5
Point 10C	25	32	8	Point 17A	25	32	7.5	Point 18A	25	30	8
Point 16A	25	32	7.5	Point 17B	45	38	17	Point 18B	45	30	17
Point 16B	47	30	18	Point 21A	25	35	8	Point 21B	42	30	15.5

Comments:

IB on - 1313, IB off - 1326

IB on - 1414, IB off - 1427

IB on - 1514, IB off - 1527

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/17/2009
 Time: -
 Weather: 40's
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours 10
 Feed Air Pressure * 80 (psi)
 Cycle Pressure * 0-65 (psi)
 Oxygen Receiver Pressure * 60 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 120 (psi)
 Oxygen Purity ~90 (percent)

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 60 (psi)
 Element Outlet Temperature 168 (°F)
 Dewpoint -
 Running Hours 12 (hours)
 Loading Hours 12 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	10	11	Point 2A	32	30	11.5	Point 3A	25	32	8
Point 7A	30	18	10	Point 8A	45	30	17	Point 3B	35	34	12
Point 7B	64	18	29	Point 8B	64	30	25	Point 9A	45	34	16.5
Point 13A	25	14	7	Point 8C	25	30	7.5	Point 9B	64	32	23
Point 13B	52	10	21	Point 14A	25	30	8.5	Point 9C	25	32	7.5
Point 19A	25	0	7	Point 14B	52	28	19	Point 15A	25	32	8
Point 19B	44	26	16	Point 20A	25	30	8	Point 15B	44	32	15.5
-	-	-	-	Point 20B	42	32	16.5	-	-	-	-

Comments:

Date: 2/17/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	32	8	Point 5A	25	32	7.5	Point 6A	30	32	8
Point 4B	39	36	14	Point 5B	42	32	14.5	Point 6B	52	32	20
Point 10A	45	32	16.5	Point 11A	45	34	16.5	Point 12A	25	34	7.5
Point 10B	64	32	26	Point 11B	64	30	25	Point 12B	54	32	22.5
Point 10C	25	34	8	Point 17A	25	40	7.5	Point 18A	25	38	8
Point 16A	25	36	7	Point 17B	45	36	17	Point 18B	45	32	17
Point 16B	47	35	17.5	Point 21A	25	40	8	Point 21B	42	34	15.5

Comments:

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/18/2009
 Time: -
 Weather: 20's Sun
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours 25
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0-65 (psi)
 Oxygen Receiver Pressure * 55 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 120 (psi)
 Oxygen Purity 98.3 (percent)

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 110 (psi)
 Element Outlet Temperature 147 (°F)
 Dewpoint -
 Running Hours 32 (hours)
 Loading Hours 34 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	24	11	Point 2A	32	28	12	Point 3A	25	30	8
Point 7A	30	22	10	Point 8A	45	22	17	Point 3B	35	30	12
Point 7B	64	22	29	Point 8B	64	20	25	Point 9A	45	30	16.5
Point 13A	25	22	7	Point 8C	25	26	7	Point 9B	64	28	23
Point 13B	52	24	21	Point 14A	25	30	8	Point 9C	25	24	7.5
Point 19A	25	18	7	Point 14B	52	24	19	Point 15A	25	28	8
Point 19B	44	24	16	Point 20A	25	30	8	Point 15B	44	32	16
-	-	-	-	Point 20B	42	27	16	-	-	-	-

Comments:

Date: 2/18/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	24	7.5	Point 5A	25	24	7.5	Point 6A	30	28	8
Point 4B	39	22	14	Point 5B	42	22	14.5	Point 6B	52	30	20
Point 10A	45	26	16.5	Point 11A	45	28	16.5	Point 12A	25	30	7.5
Point 10B	64	28	26	Point 11B	64	28	25	Point 12B	54	30	22
Point 10C	25	30	8	Point 17A	25	32	7.5	Point 18A	25	30	8
Point 16A	25	24	7	Point 17B	45	36	17	Point 18B	45	30	17
Point 16B	47	32	17.5	Point 21A	25	30	8	Point 21B	42	30	16.5

Comments:

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/19/2009
 Time: -
 Weather: 40's
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours 40
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0-70 (psi)
 Oxygen Receiver Pressure * 62 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 120 (psi)
 Oxygen Purity 94.0 (percent)

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 100 (psi)
 Element Outlet Temperature 168 (°F)
 Dewpoint -
 Running Hours 48 (hours)
 Loading Hours 50 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	30	11	Point 2A	32	30	12	Point 3A	25	30	8
Point 7A	30	30	10	Point 8A	45	30	17	Point 3B	35	32	12.5
Point 7B	64	32	29	Point 8B	64	F+N	Fixing	Point 9A	45	32	16.5
Point 13A	25	30	7.5	Point 8C	25	28	10	Point 9B	64	32	23
Point 13B	52	30	21	Point 14A	25	30	8	Point 9C	25	32	7.5
Point 19A	25	32	8	Point 14B	52	30	19	Point 15A	25	30	8
Point 19B	44	30	16.5	Point 20A	25	30	8	Point 15B	44	30	16
-	-	-	-	Point 20B	42	30	16.5	-	-	-	-

Comments:

Date: 2/19/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	32	8	Point 5A	25	30	7.5	Point 6A	30	24	8
Point 4B	39	32	14	Point 5B	42	30	14.5	Point 6B	52	25	20
Point 10A	45	28	16	Point 11A	45	32	16.5	Point 12A	25	24	7.5
Point 10B	64	25	26	Point 11B	64	30	24.5	Point 12B	54	26	22
Point 10C	25	30	8	Point 17A	25	30	7.5	Point 18A	25	28	8
Point 16A	25	30	7.5	Point 17B	45	30	17	Point 18B	45	28	17
Point 16B	47	28	17.5	Point 21A	25	32	8	Point 21B	42	26	15.5

Comments:

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/20/2009
 Time: -
 Weather: 20's
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours 51
 Feed Air Pressure * 100 (psi)
 Cycle Pressure * 0-65 (psi)
 Oxygen Receiver Pressure * 65 (psi)
 Oxygen Receiver Tank Pressure (reading from blue tank) 120 (psi)
 Oxygen Purity ~93 (percent)

Compressor Tank * 100 (psi)
 (readings below are made from control panel)
 Delivery Air 100 (psi)
 Element Outlet Temperature 168 (°F)
 Dewpoint -
 Running Hours 61 (hours)
 Loading Hours 59 (hours)
 Motor Starts -
 Regular Hours - (hours)
 Maximum Pressure - (psi)

* maximum reading during loading cycle

* maximum reading during loading cycle

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	28	11	Point 2A	32	28	12	Point 3A	25	30	8
Point 7A	30	26	10	Point 8A	45	32	17	Point 3B	35	30	12
Point 7B	64	24	29	Point 8B	64	40	26.5	Point 9A	45	32	16.5
Point 13A	25	28	7.5	Point 8C	25	40	8	Point 9B	64	30	23
Point 13B	52	24	21	Point 14A	25	34	8	Point 9C	25	28	7.5
Point 19A	25	28	8	Point 14B	52	30	19.5	Point 15A	25	32	8
Point 19B	44	28	17	Point 20A	25	30	8	Point 15B	44	24	15.5
-	-	-	-	Point 20B	42	32	15.5	-	-	-	-

Comments:

Date: 2/20/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	30	8	Point 5A	25	20	7.5	Point 6A	30	32	8.5
Point 4B	39	28	14.5	Point 5B	42	22	14.5	Point 6B	52	42	20
Point 10A	45	28	16.5	Point 11A	45	24	16.5	Point 12A	25	30	7.5
Point 10B	64	22	26	Point 11B	64	22	24.5	Point 12B	54	36	22
Point 10C	25	32	8	Point 17A	25	24	7.5	Point 18A	25	30	8
Point 16A	25	32	7.5	Point 17B	45	26	17	Point 18B	45	32	17
Point 16B	47	28	18	Point 21A	25	22	8	Point 21B	42	34	15.5

Comments:

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/21/2009
 Time: -
 Weather: 30's Sun/Wind
 Inside Trailer Temperature: -
 Performed By: AE

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours	<u>66</u>	Compressor Tank *	<u>120</u>	(psi)
Feed Air Pressure *	<u>120</u>	(readings below are made from control panel)		
Cycle Pressure *	<u>0-60</u>	Delivery Air	<u>77</u>	(psi)
Oxygen Receiver Pressure *	<u>60</u>	Element Outlet Temperature	<u>168</u>	(°F)
	(psi)	Dewpoint	<u>-</u>	
Oxygen Receiver Tank Pressure (reading from blue tank)	<u>100</u>	Running Hours	<u>77</u>	(hours)
	(psi)	Loading Hours	<u>74</u>	(hours)
Oxygen Purity	<u>96.9</u>	Motor Starts	<u>-</u>	
	(percent)	Regular Hours	<u>-</u>	(hours)
		Maximum Pressure	<u>-</u>	(psi)

* maximum reading during loading cycle

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	28	11	Point 2A	32	22	11.5	Point 3A	25	21	8
Point 7A	30	30	10	Point 8A	45	22	17	Point 3B	35	15	11.5
Point 7B	64	34	29	Point 8B	64	0	17.5	Point 9A	45	14	16
Point 13A	25	30	7.5	Point 8C	25	18	7	Point 9B	64	10	23
Point 13B	52	28	20.5	Point 14A	25	24	8	Point 9C	25	14	7
Point 19A	25	26	8	Point 14B	52	22	19	Point 15A	25	15	7.5
Point 19B	44	32	17	Point 20A	25	26	7	Point 15B	44	16	15.5
-	-	-	-	Point 20B	42	22	16	-	-	-	-

Comments:

Date: 2/21/2009

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

TAIL PLUME O₂ Injection System

Injection Bank 4			Injection Bank 5			Injection Bank 6					
Depth	scfh	psi	Depth	scfh	psi	Depth	scfh	psi			
Point 4A	25	20	8	Point 5A	25	18	7.5	Point 6A	30	14	8
Point 4B	39	18	14	Point 5B	42	18	14	Point 6B	52	18	19.5
Point 10A	45	19	16	Point 11A	45	18	16.5	Point 12A	25	16	7.5
Point 10B	64	10	25.5	Point 11B	64	>30	25.5	Point 12B	54	21	22
Point 10C	25	20	8	Point 17A	25	18	7.5	Point 18A	25	21	8
Point 16A	25	19	7	Point 17B	45	14	17	Point 18B	45	19	17
Point 16B	47	19	17.5	Point 21A	25	18	8	Point 21B	42	25	15.5

Comments:

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
 * Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
 Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
Bay Shore OU-2 Oxygen Injection Remedial System

GENERAL SYSTEM NOTES

Trailer

1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____

2) Abnormal conditions observed (e.g. vandalism) _____

3) Other major activities completed _____

4) Supplies needed _____

5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
9 N. Clinton Oxygen Injection Remedial System

Oxygen Injection Remedial System
 KeySpan Corporation
 OU-2 Interim Remedial Measure
 Project No. 982482-14-2401

Date: 2/16/2009
 Time: -
 Weather: 40's
 Inside Trailer Temperature: 70's
 Performed By: JP

O₂ Generator (AirSep AS-80)

Compressor (Kaesar Rotary Screw)

Hours	_____	Compressor Tank *	_____	(psi)
Feed Air Pressure *	_____ (psi)	(readings below are made from control panel)		
Cycle Pressure *	_____ (psi)	Delivery Air	_____	(psi)
Oxygen Receiver Pressure *	_____ (psi)	Element Outlet Temperature	_____	(°F)
Oxygen Receiver Tank Pressure (reading from blue tank)	_____ (psi)	Dewpoint	_____	
Oxygen Purity	_____ (percent)	Running Hours	_____	(hours)
* maximum reading during loading cycle		Loading Hours	_____	(hours)
		Motor Starts	_____	
		Regular Hours	_____	(hours)
		Maximum Pressure	_____	(psi)
		* maximum reading during loading cycle		

MID PLUME O₂ Injection System

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1A	30	22	11	Point 2A	32	30	11.5	Point 3A	25	30	8
Point 7A	30	24	10.5	Point 8A	45	30	17	Point 3B	35	30	12
Point 7B	64	22	30.5	Point 8B	64	Leak	Leak	Point 9A	45	30	16.5
Point 13A	25	30	7.5	Point 8C	25	25	7.5	Point 9B	64	30	23
Point 13B	52	24	21	Point 14A	25	25	8	Point 9C	25	30	7.5
Point 19A	25	26	7.5	Point 14B	52	30	26	Point 15A	25	28	8
Point 19B	44	28	17	Point 20A	25	25	8	Point 15B	44	30	15.5
-	-	-	-	Point 20B	42	25	16	-	-	-	-

Comments:
 pressures appear normal Point 8B: pressure builds slowly Point 9B: pressure builds slowly

Test 13 total points with potential slow leaks

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>3/12/01</u> Time: <u>1800</u> Weather: <u>80s Humid</u> Inside Trailer Temperature: <u>70s</u> Performed By: <u>SPAS</u>
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O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>100 7</u>	Compressor Tank * <u>100</u> (psi)
Feed Air Pressure * <u>100</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>0-70</u> (psi)	Delivery Air <u>100</u> (psi)
Oxygen Receiver Pressure * <u>62</u> (psi)	Element Outlet Temperature <u>20</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>62</u> (psi)	Dewpoint <u>-</u>
Oxygen Purity _____ (percent)	Running Hours <u>677</u> (hours)
* maximum reading during loading cycle	Loading Hours <u>-</u> (hours)
	Motor Starts <u>-</u>
	Regular Hours <u>-</u> (hours)
	Maximum Pressure <u>-</u> (psi)
	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
	Depth	scfh	psi		Depth	scfh	psi		Depth	scfh	psi
Point 1	39	30	0	Point 9	44			Point 17	-	-	-
Point 2	19	30	8	Point 10	19	25	7.5	Point 18	-	-	-
Point 3	39	30	18	Point 11	44	25	19	Point 19	-	-	-
Point 4	19	30	8	Point 12	19	25	19	Point 20	-	-	-
Point 5	44	30	18.5	Point 13	44	25	19	Point 21	-	-	-
Point 6	19	30	7	Point 14	19	28	5.5	Point 22	-	-	-
Point 7	44	30	20	Point 15	44	25	18	Point 23	-	-	-
Point 8	19	30	5	Point 16	19	20	7	Point 24	-	-	-

Comments: valve AT well head for Port 1 Broken

Date: _____	
OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET	
18 Garner Oxygen Injection Remedial System	
OPERATIONAL NOTES	
<u>GA5 Air Compressor</u>	
1) Oil Level Checked with system unloaded*	Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi	
2) Oil Level with system unloaded	
Low (red) _____ Normal (green) _____ High (orange) _____	
3) Oil added	Yes _____ No _____
4) Oil changed	Yes _____ No _____
5) Oil filter changed	Yes _____ No _____
6) Air filter Changed	Yes _____ No _____
7) Oil separator changed	Yes _____ No _____
8) Terminal strips checked	Yes _____ No _____
<u>AS-80 O₂ Generator</u>	
1) Prefilter changed	Yes _____ No _____
2) Coalescing changed	Yes _____ No _____

GENERAL SYSTEM NOTES	
<u>Trailer</u>	
1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)	Yes _____ No _____
2) Abnormal conditions observed (e.g. vandalism)	_____
3) Other major activities completed	_____
4) Supplies needed	_____
5) Visitors	_____
<p>Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:</p> 	
Action Items	

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>8/17/09</u> Time: <u>1600</u> Weather: <u>80%</u> Inside Trailer Temperature: <u>70s</u> Performed By: <u>SP</u>
--	---

O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>8</u>	Compressor Tank * <u>100</u> (psi)
Feed Air Pressure * <u>100</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>0-70</u> (psi)	Delivery Air <u>80</u> (psi)
Oxygen Receiver Pressure * <u>60</u> (psi)	Element Outlet Temperature <u>90</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>60</u> (psi)	Dewpoint <u>-</u>
Oxygen Purity <u>96</u> (percent)	Running Hours <u>8:27</u> (hours)
	Loading Hours <u>-</u> (hours)
	Motor Starts <u>-</u>
	Regular Hours <u>-</u> (hours)
	Maximum Pressure <u>-</u> (psi)
* maximum reading during loading cycle	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
1530	Depth	scfh	psi	1630	Depth	scfh	psi	Depth	scfh	psi	
Point 1	39	-	5	Point 9	44	25	20.5	Point 17	-	-	
Point 2	19	30	8	Point 10	19	25	8	Point 18	-	-	
Point 3	39	25	18	Point 11	44	25	19	Point 19	-	-	
Point 4	19	28	8	Point 12	19	25	7	Point 20	-	-	
Point 5	44	25	18.5	Point 13	44	25	19	Point 21	-	-	
Point 6	19	24	7	Point 14	19	25	6	Point 22	-	-	
Point 7	44	20	19.5	Point 15	44	22	19	Point 23	-	-	
Point 8	19	24	5	Point 16	19	25	7	Point 24	-	-	

Comments:

point 1 needs to be repaired.
Set all Flow Rates to 25 scfh.

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
4) Oil changed Yes _____ No _____
5) Oil filter changed Yes _____ No _____
6) Air filter Changed Yes _____ No _____
7) Oil separator changed Yes _____ No _____
8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
2) Coalescing changed Yes _____ No _____

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>8/18/09</u> Time: <u>5:20 @ 1730</u> Weather: <u>Sunny High 80s</u> Inside Trailer Temperature: <u>75</u> Performed By: <u>(Signature)</u>
--	---

O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>34</u>	Compressor Tank * <u>110</u> (psi)
Feed Air Pressure * <u>110</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>0-80</u> (psi)	Delivery Air <u>80</u> (psi)
Oxygen Receiver Pressure * <u>65</u> (psi)	Element Outlet Temperature <u>190</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>65</u> (psi)	Dewpoint <u>-</u>
Oxygen Purity _____ (percent)	Running Hours <u>289.9</u> (hours)
* maximum reading during loading cycle	Loading Hours <u>-</u> (hours)
	Motor Starts <u>-</u>
	Regular Hours <u>-</u> (hours)
	Maximum Pressure <u>-</u> (psi)
	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1	39	-	-	Point 9	44	26	20.5	Point 17	-	-	-
Point 2	19	22	8	Point 10	19	24	7.5	Point 18	-	-	-
Point 3	39	24	17.5 27.5	Point 11	44	26	19	Point 19	-	-	-
Point 4	19	22	7.75	Point 12	19	25	7	Point 20	-	-	-
Point 5	44	28	18.5	Point 13	44	25	19	Point 21	-	-	-
Point 6	19	16	6.75	Point 14	19	26	6	Point 22	-	-	-
Point 7	44	30	19.5	Point 15	44	26	18.5	Point 23	-	-	-
Point 8	19	22	5	Point 16	19	24	7	Point 24	-	-	-

Comments:

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions: .

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>8/19/09</u> Time: <u>1600</u> Weather: <u>80's Humid</u> Inside Trailer Temperature: <u>60's</u> Performed By: <u>JP</u>
--	---

O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>55</u>	Compressor Tank * <u>100</u> (psi)
Feed Air Pressure * <u>100</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>0-70</u> (psi)	Delivery Air <u>95</u> (psi)
Oxygen Receiver Pressure * <u>50</u> (psi)	Element Outlet Temperature <u>90</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>50</u> (psi)	Dewpoint <u>-</u>
Oxygen Purity <u>93</u> (percent)	Running Hours <u>48.11</u> (hours)
	Loading Hours <u>-</u> (hours)
	Motor Starts <u>-</u>
	Regular Hours <u>-</u> (hours)
	Maximum Pressure <u>-</u> (psi)
* maximum reading during loading cycle	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1	39	-	-	Point 9	44	20	20	Point 17	-	-	-
Point 2	19	25	8	Point 10	19	24	7.5	Point 18	-	-	-
Point 3	39	24	17	Point 11	44	28	19	Point 19	-	-	-
Point 4	19	25	8	Point 12	19	25	7	Point 20	-	-	-
Point 5	44	28	19	Point 13	44	28	19	Point 21	-	-	-
Point 6	19	25	7	Point 14	19	25	6.5	Point 22	-	-	-
Point 7	44	25	20	Point 15	44	26	18	Point 23	-	-	-
Point 8	19	25	5	Point 16	19	26	7	Point 24	-	-	-

Comments:

Date: _____

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

OPERATIONAL NOTES

GA5 Air Compressor

- 1) Oil Level Checked with system unloaded* Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi
- 2) Oil Level with system unloaded
Low (red) _____ Normal (green) _____ High (orange) _____
- 3) Oil added Yes _____ No _____
- 4) Oil changed Yes _____ No _____
- 5) Oil filter changed Yes _____ No _____
- 6) Air filter Changed Yes _____ No _____
- 7) Oil separator changed Yes _____ No _____
- 8) Terminal strips checked Yes _____ No _____

AS-80 O₂ Generator

- 1) Prefilter changed Yes _____ No _____
- 2) Coalescing changed Yes _____ No _____

GENERAL SYSTEM NOTES

Trailer

- 1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)
Yes _____ No _____
- 2) Abnormal conditions observed (e.g. vandalism) _____

- 3) Other major activities completed _____

- 4) Supplies needed _____

- 5) Visitors _____

Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:

Action Items

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>8/20/09</u> Time: _____ Weather: <u>50's</u> Inside Trailer Temperature: <u>60's</u> Performed By: <u>SP</u>
--	---

O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>79</u>	Compressor Tank * <u>66</u> (psi)
Feed Air Pressure * <u>80</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>0-70</u> (psi)	Delivery Air <u>100</u> (psi)
Oxygen Receiver Pressure * <u>60</u> (psi)	Element Outlet Temperature <u>80</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>60</u> (psi)	Dewpoint _____
Oxygen Purity <u>96</u> (percent)	Running Hours <u>68</u> (hours)
	Loading Hours _____ (hours)
	Motor Starts _____
	Regular Hours _____ (hours)
	Maximum Pressure _____ (psi)
* maximum reading during loading cycle	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1	39	—	—	Point 9	44	22	19	Point 17	-	-	-
Point 2	19	28	8	Point 10	19	22	8	Point 18	-	-	-
Point 3	39	30	16	Point 11	44	22	19	Point 19	-	-	-
Point 4	19	20	8	Point 12	19	22	7.5	Point 20	-	-	-
Point 5	44	20	19	Point 13	44	20	19	Point 21	-	-	-
Point 6	19	20	7	Point 14	19	22	6	Point 22	-	-	-
Point 7	44	20	20	Point 15	44	20	18.5	Point 23	-	-	-
Point 8	19	20	5.5	Point 16	19	25	8	Point 24	-	-	-

Comments:
Bank 1
2hr
Bank 2
22 hrs

Date: _____	
OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET	
18 Garner Oxygen Injection Remedial System	
OPERATIONAL NOTES	
<u>GA5 Air Compressor</u>	
1) Oil Level Checked with system unloaded*	Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi	
2) Oil Level with system unloaded	Low (red) _____ Normal (green) _____ High (orange) _____
3) Oil added	Yes _____ No _____
4) Oil changed	Yes _____ No _____
5) Oil filter changed	Yes _____ No _____
6) Air filter Changed	Yes _____ No _____
7) Oil separator changed	Yes _____ No _____
8) Terminal strips checked	Yes _____ No _____
<u>AS-80 O₂ Generator</u>	
1) Prefilter changed	Yes _____ No _____
2) Coalescing changed	Yes _____ No _____

GENERAL SYSTEM NOTES	
<u>Trailer</u>	
1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)	Yes _____ No _____
2) Abnormal conditions observed (e.g. vandalism)	_____
3) Other major activities completed	_____
4) Supplies needed	_____
5) Visitors	_____
<p>Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:</p> 	
Action Items	

OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET
18 Garner Oxygen Injection Remedial System

Oxygen Injection Remedial System National Grid OU-2 Interim Remedial Measure Project No. 061140-10-1905	Date: <u>9/30/09</u> Time: <u>1400</u> Weather: <u>60s</u> Inside Trailer Temperature: <u>60s</u> Performed By: <u>JP</u>
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O ₂ Generator	Compressor (Kaesar Rotary Screw)
Hours <u>1039</u> 875	Compressor Tank * <u>75</u> (psi)
Feed Air Pressure * <u>75</u> (psi)	(readings below are made from control panel)
Cycle Pressure * <u>70</u> (psi)	Delivery Air <u>85</u> (psi)
Oxygen Receiver Pressure * <u>58</u> (psi)	Element Outlet Temperature <u>75</u> (°F)
Oxygen Receiver Tank Pressure (reading from blue tank) <u>58</u> (psi)	Dewpoint <u>-</u>
Oxygen Purity <u>89.9</u> (percent)	Running Hours <u>875</u> (hours)
* maximum reading during loading cycle	Loading Hours <u>-</u> (hours)
	Motor Starts <u>-</u>
	Regular Hours <u>-</u> (hours)
	Maximum Pressure <u>-</u> (psi)
	* maximum reading during loading cycle

Injection Bank 1				Injection Bank 2				Injection Bank 3			
Point	Depth	scfh	psi	Point	Depth	scfh	psi	Point	Depth	scfh	psi
Point 1	39	-	-	Point 9	44	30	17.5	Point 17	-	-	-
Point 2	19	30	8	Point 10	19	30	7.5	Point 18	-	-	-
Point 3	39	30	17	Point 11	44	30	19	Point 19	-	-	-
Point 4	19	32	8	Point 12	19	28	7	Point 20	-	-	-
Point 5	44	30	16.5	Point 13	44	24	19	Point 21	-	-	-
Point 6	19	30	7	Point 14	19	30	6	Point 22	-	-	-
Point 7	44	28	14.5	Point 15	44	30	18.5	Point 23	-	-	-
Point 8	19	20	5	Point 16	19	22	7	Point 24	-	-	-

Comments:

Point 1 => needs repair

All Flows set to 20 scfh due to bubbling in creek

Date: _____	
OXYGEN INJECTION OPERATION AND MAINTENANCE LOG SHEET	
18 Garner Oxygen Injection Remedial System	
OPERATIONAL NOTES	
<u>GA5 Air Compressor</u>	
1) Oil Level Checked with system unloaded*	Yes _____ No _____
* Unload system, wait until Delivery Air Pressure is less than 9 psi	
2) Oil Level with system unloaded	Low (red) _____ Normal (green) _____ High (orange) _____
3) Oil added	Yes _____ No _____
4) Oil changed	Yes _____ No _____
5) Oil filter changed	Yes _____ No _____
6) Air filter Changed	Yes _____ No _____
7) Oil separator changed	Yes _____ No _____
8) Terminal strips checked	Yes _____ No _____
<u>AS-80 O₂ Generator</u>	
1) Prefilter changed	Yes _____ No _____
2) Coalescing changed	Yes _____ No _____

GENERAL SYSTEM NOTES	
<u>Trailer</u>	
1) Performed general housekeeping (i.e. sweep, collect trash inside and out, etc.)	Yes _____ No _____
2) Abnormal conditions observed (e.g. vandalism)	_____
3) Other major activities completed	_____
4) Supplies needed	_____
5) Visitors	_____
<p>Record routine activities such as any alarm/shutdowns, sampling, maintenance, material transported off-site, oil/filter/gasket and/or any other abnormal operating conditions:</p> 	
Action Items	

Appendix K

Analytical Groundwater Data

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	BMW-16S 11/11/2008	BMW-16S 2/3/2010	BMW-16S 2/17/2009	BMW-16S 6/2/2009	BMW-16S 6/2/2009	BMW-16S 9/3/2009	BMW-16S 11/20/2009	BMW-16S 12/17/2009	BMW-16I 11/11/2008	BMW-16I 2/18/2009	BMW-16I 6/2/2009	BMW-16I 9/3/2009	BMW-16I 11/20/2009	BMW-16I 12/17/2009	BMW-16I 2/3/2010	BMW-16I 2/3/2010	BMW-16D 11/11/2008	BMW-16D 2/20/2009	BMW-16D 6/3/2009	BMW-16D 9/3/2009
BTEX (ug/L)																					
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/L)																					
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	R	10 UJ	NA	10 U	NA	10 U	10 U	10 U	R
Acetone	50*	4 J	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	NA	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 U	10 UJ	10 UJ
Allyl chloride	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 U	10 U	10 U
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Bromoform	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 U	NA	10 U	NA	10 UJ	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 UJ	NA	10 U	NA	10 UJ	10 U	10 U	10 U
Butadiene, 1,3-	NE	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	R	NA	10 UJ	10 U	R	NA	NA	10 UJ	NA	10 UJ	10 UJ	10 U	R
Butanone, 2-	50*	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	NA	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 U	NA	10 UJ	10 U	10 UJ	10 UJ
Carbon disulfide	60*	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	10 U	10 U	10 U
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 UJ	10 UJ	NA	10 U	NA	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	NA	10 U	10 UJ	10 U	10 UJ	10 UJ	NA	10 UJ	NA	10 U	10 UJ	10 U	10 U
Chlorotoluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Cryofluorane	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	10 UJ	10 U	10 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 U	10 U	10 U
Decane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 UJ	10 UJ	NA	10 UJ	NA	10 U	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 UJ	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	NA	10 U	10 U	10 U	10 U
Dichloropropane, 1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	NA	R	R	R	R	R	NA	R	NA	R	R	R	R
Dodecane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	NE	R	R	R	R	R	R	R	NA	R	R	R	R	R	NA	R	NA	R	R	R	R
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	10 U	10 UJ	10 UJ
Hexachlorobutadiene	0.5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 UJ	10 U	NA	10 UJ	NA	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 UJ	10 UJ	10 U
Hexanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	NA	10 U	NA	10 UJ	10 UJ	10 U	10 U
Methyl tert-butyl ether	10*	2 J	10 UJ	5 J	3 J	3 J	1 J	10 U	NA	10 UJ	10 UJ	10 UJ	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 UJ	10 UJ	10 U
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	NA	10 U	10 U	10 U	10 U
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	5 J	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propanol, 2-	NE	500 UJ	R	500 UJ	R	R	R	R	NA	R	500 UJ	R	R	R	NA	R	NA	R	500 U	R	R
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 UJ	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,1,2-	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	NA	10 U	NA	10 UJ	10 U	10 U	10 U
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	NA	2 J	1 J	10 UJ	2 J	2 J	NA	1 J	NA	10 U	10 UJ	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 U	NA	10 UJ	NA	10 UJ	10 U	10 UJ	10 UJ
Trans-1,2-dichloroethene	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 U	10 U	NA	10 U	NA	10 U	R	10 U	10 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5																				

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	BBMW-16S 11/11/2008	BBMW-16S 2/3/2010	BBMW-16S 2/17/2009	BBMW-16S 6/2/2009	BBMW-16S DUP-06-Q2 6/2/2009	BBMW-16S 9/3/2009	BBMW-16S 11/20/2009	BBMW-16S 12/17/2009	BBMW-16I 11/11/2008	BBMW-16I 2/18/2009	BBMW-16I 6/2/2009	BBMW-16I 9/3/2009	BBMW-16I 11/20/2009	BBMW-16I 12/17/2009	BBMW-16I 2/3/2010	BBMW-16I DUP-HEX 2/3/2010	BBMW-16D 11/11/2008	BBMW-16D 2/20/2009	BBMW-16D 6/3/2009	BBMW-16D 9/3/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Trichlorofluoromethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	NA	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Vinyl chloride	2	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U
Total VOCs	NE	6	ND	5	3	3	1	ND	NA	2	1	ND	7	2	NA	1	NA	ND	ND	ND	ND	
Non-carcinogenic PAHs (ug/L)																						
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Carcinogenic PAHs (ug/L)																						
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Total PAHs (ug/L)																						
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Other SVOCs (ug/L)																						
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	BMW-16S BMW-16S 11/11/2008	BMW-16S BMW-16S 2/3/2010	BMW-16S BMW-16S 2/17/2009	BMW-16S BMW-16S 6/2/2009	BMW-16S DUP-06-Q2 6/2/2009	BMW-16S BMW-16S 9/3/2009	BMW-16S BMW-16S 11/20/2009	BMW-16S BMW-16S 12/17/2009	BMW-16I BMW-16I 11/11/2008	BMW-16I BMW-16I 2/18/2009	BMW-16I BMW-16I 6/2/2009	BMW-16I BMW-16I 9/3/2009	BMW-16I BMW-16I 11/20/2009	BMW-16I BMW-16I 12/17/2009	BMW-16I BMW-16I 2/3/2010	BMW-16I DUP-HEX 2/3/2010	BMW-16D BMW-16D 11/11/2008	BMW-16D BMW-16D 2/20/2009	BMW-16D BMW-16D 6/3/2009	BMW-16D BMW-16D 9/3/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
Total Metals (ug/L)																					
Aluminum	NE	NA	17.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.7 U	18 U	NA	NA	NA	NA
Antimony	3	NA	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	2.1 U	NA	NA	NA	NA
Arsenic	25	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3 U	2.3 U	NA	NA	NA	NA
Barium	1000	NA	13.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.6 J	39.9 J	NA	NA	NA	NA
Beryllium	3*	NA	0.26 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26 U	0.26 U	NA	NA	NA	NA
Cadmium	5	NA	0.34 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 U	0.34 U	NA	NA	NA	NA
Calcium	NE	NA	36800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7740	8680	NA	NA	NA	NA
Chromium	50	NA	0.67 UJ	NA	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA	NA	1.0 J	0.74 UJ	0.74 UJ	NA	NA	NA	NA
Chromium (VI)	NE	NA	20 U	NA	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	20 U	20 U	20 U	NA	NA	NA	NA
Cobalt	NE	NA	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 J	2.4 J	NA	NA	NA	NA
Copper	200	NA	2.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	1.0 J	NA	NA	NA	NA
Iron	300	NA	22.6 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.1 UJ	19.8 UJ	NA	NA	NA	NA
Lead	25	NA	1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8 U	1.8 U	NA	NA	NA	NA
Magnesium	35000*	NA	4420 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3220 J	3600 J	NA	NA	NA	NA
Manganese	300	NA	9.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1030	1140	NA	NA	NA	NA
Mercury	0.7	NA	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA
Nickel	100	NA	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 J	1.4 U	NA	NA	NA	NA
Potassium	NE	NA	2940 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1260 UJ	1290 UJ	NA	NA	NA	NA
Selenium	10	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	2.5 U	NA	NA	NA	NA
Silver	50	NA	0.83 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.83 U	0.83 U	NA	NA	NA	NA
Sodium	20000*	NA	11800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12800	13900	NA	NA	NA	NA
Thallium	0.5*	NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2 U	3.2 U	NA	NA	NA	NA
Vanadium	NE	NA	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4 U	1.4 U	NA	NA	NA	NA
Zinc	2000*	NA	22.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2 UJ	8.8 UJ	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	BBMW-16S 11/11/2008	BBMW-16S 2/3/2010	BBMW-16S 2/17/2009	BBMW-16S 6/2/2009	BBMW-16S 6/2/2009	BBMW-16S 9/3/2009	BBMW-16S 11/20/2009	BBMW-16S 12/17/2009	BBMW-16I 11/11/2008	BBMW-16I 2/18/2009	BBMW-16I 6/2/2009	BBMW-16I 9/3/2009	BBMW-16I 11/20/2009	BBMW-16I 12/17/2009	BBMW-16I 2/3/2010	BBMW-16I 2/3/2010	BBMW-16D 11/11/2008	BBMW-16D 2/20/2009	BBMW-16D 6/3/2009	BBMW-16D 9/3/2009	
Cyanides (ug/L)																						
Cyanide, Total	200	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0 U	10 U	NA	NA	NA	NA
Other																						
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	0.319	0.354	NA	0.327	NA	NA	NA	0.118	0.092	0.144	NA	NA	NA	NA	NA	0.093	0.086	0.099	
Dissolved Oxygen (mg/L)	NE	NA	NA	0.4	ND	NA	1.77	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	50	73	NA	105	NA	NA	NA	137	181	173	NA	NA	NA	NA	NA	31	84	41	
pH (S.U.)	NE	NA	NA	6.09	6.61	NA	6.13	NA	NA	NA	5.36	5.73	4.90	NA	NA	NA	NA	NA	5.90	5.91	5.50	
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	10.57	16.63	NA	19.04	NA	NA	NA	9.15	17.7	15.59	NA	NA	NA	NA	NA	9.8	14.58	15.93	
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	BMW-16D BMW-16D 11/23/2009	BMW-16D BMW-16D 12/18/2009	BMW-16D BMW-16D 2/3/2010	BMW-24S BMW-24S 12/10/2008	BMW-24S BMW-24S 2/19/2009	BMW-24S BMW-24S 6/23/2009	BMW-24S BMW-24S 9/3/2009	BMW-24S BMW-24S 11/19/2009	BMW-24I BMW-24I 12/10/2008	BMW-24I BMW-24I 2/19/2009	BMW-24I BMW-24I 6/23/2009	BMW-24I BMW-24I 9/3/2009	BMW-24I BMW-24I 11/19/2009	BMW-24D BMW-24D 12/10/2008	BMW-24D BMW-24D 2/19/2009	BMW-24D BMW-24D 6/23/2009	BMW-24D BMW-24D 9/3/2009	BMW-24D BMW-24D 11/19/2009	OU2MW-08WT OU2MW-08WT 12/8/2008	
Trichloroethane, 1,1,1-	5	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	NA	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	NA	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Vinyl acetate	NE	10 U	NA	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl chloride	2	10 U	NA	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Total VOCs	NE	ND	NA	ND	ND	ND	2	ND	ND	1	11	1778	64	19	356	829	1558	347	381	ND	ND
Non-carcinogenic PAHs (ug/L)																					
Acenaphthene	20*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	10 U	10 U	1 J	2 J	3 J	1 J	10 U	10 U
Acenaphthylene	NE	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40	10 U	10 U	14	16	7	7	11	3 J
Anthracene	50*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a,h,i]perylene	NE	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J	3 J	2 J	2 J	10 U
Methylnaphthalene, 2-	NE	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	45	10 U	10 U	14	20	10 U	15	16	7
Naphthalene	10*	10 U	NA	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	930	10 U	10 U	78	190	10 U	26	100	52
Phenanthrene	50*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6	10 U	10 U	4 J	3 J	10 U	2 J	2 J	10 U
Pyrene	50*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	NA	ND	ND	ND	ND	ND	1	ND	ND	1027	ND	ND	113	233	13	53	131	62	62
Carcinogenic PAHs (ug/L)																					
Benzo[a]anthracene	0.002*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																					
Total PAHs	NE	ND	NA	ND	ND	ND	ND	ND	1	ND	ND	1027	ND	ND	113	233	13	53	131	62	62
Other SVOCs (ug/L)																					
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
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Location Code: Sample Name: Sample Date:	NYS AWQS	BMW-16D BMW-16D 11/23/2009	BMW-16D BMW-16D 12/18/2009	BMW-16D BMW-16D 2/3/2010	BMW-24S BMW-24S 12/10/2008	BMW-24S BMW-24S 2/19/2009	BMW-24S BMW-24S 6/23/2009	BMW-24S BMW-24S 9/3/2009	BMW-24S BMW-24S 11/19/2009	BMW-24I BMW-24I 12/10/2008	BMW-24I BMW-24I 2/19/2009	BMW-24I BMW-24I 6/23/2009	BMW-24I BMW-24I 9/3/2009	BMW-24I BMW-24I 11/19/2009	BMW-24D BMW-24D 12/10/2008	BMW-24D BMW-24D 2/19/2009	BMW-24D BMW-24D 6/23/2009	BMW-24D BMW-24D 9/3/2009	BMW-24D BMW-24D 11/19/2009	BMW-24D BMW-24D 12/8/2008	OU2MW-08WT OU2MW-08WT 12/8/2008
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	ND	NA	ND	ND	ND	ND	ND	1	ND	ND	1027	ND	ND	113	233	13	53	131	62	
Total Metals (ug/L)																					
Aluminum	NE	NA	NA	30.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	2.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	5.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	1.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	0.63 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	4580 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	1.0 J	1.7 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	20 U	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	1.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	2490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	1.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	1620 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	99.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	890 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	0.83 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	4800 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	8.7 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	BMW-16D 11/23/2009	BMW-16D 12/18/2009	BMW-16D 2/3/2010	BMW-24S 12/10/2008	BMW-24S 2/19/2009	BMW-24S 6/23/2009	BMW-24S 9/3/2009	BMW-24S 11/19/2009	BMW-24I 12/10/2008	BMW-24I 2/19/2009	BMW-24I 6/23/2009	BMW-24I 9/3/2009	BMW-24I 11/19/2009	BMW-24D 12/10/2008	BMW-24D 2/19/2009	BMW-24D 6/23/2009	BMW-24D 9/3/2009	BMW-24D 11/19/2009	OU2MW-08WT 12/8/2008
Cyanides (ug/L)																				
Cyanide, Total	200	NA	NA	10.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																				
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	23800	NA	NA	NA	NA	34300	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	0.238	0.333	0.066	0.450	NA	0.284	0.251	0.518	0.726	NA	0.118	0.180	0.29	0.418	NA	0.845
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	3.4	5.7	9.72	13.20	NA	ND	ND	20	20	NA	ND	ND	8.34	5.57	NA	4.1
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	92	80	155	172	NA	56	61	201	138	NA	-36	25	18	63	NA	90
pH (S.U.)	NE	NA	NA	NA	6.03	6.23	6.31	6.13	NA	6.27	6.18	5.61	6.27	NA	6.87	5.74	5.91	5.66	NA	6.54
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	13.1	9.7	17	19.26	NA	14.3	13.3	14.2	15.36	NA	13.9	12.7	14.7	15.58	NA	13.10
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-08WT OU2MW-08WT 2/16/2009	OU2MW-08WT OU2MW-08WT 2/17/2010	OU2MW-08WT OU2MW-08WT 6/25/2009	OU2MW-08WT OU2MW-08WT 8/13/2009	OU2MW-08WT OU2MW-08WT 11/11/2009	OU2MW-08S OU2MW-08S 12/8/2008	OU2MW-08S OU2MW-08S 2/16/2009	OU2MW-08S OU2MW-08S 2/17/2010	OU2MW-08S OU2MW-08S 6/25/2009	OU2MW-08S OU2MW-08S 8/13/2009	OU2MW-08S OU2MW-08S 11/11/2009	OU2MW-08I OU2MW-08I 12/8/2008	OU2MW-08I OU2MW-08I 2/16/2009	OU2MW-08I OU2MW-08I 2/17/2010	OU2MW-08I OU2MW-08I 6/25/2009	OU2MW-08I OU2MW-08I 8/13/2009	OU2MW-08I DUP-07-Q3 8/13/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	ND	ND	ND	ND	ND	6698	4426	1958	4661	4301	714	8486	4781	344	7615	2887	3709
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-08WT OU2MW-08WT 2/16/2009	OU2MW-08WT OU2MW-08WT 2/17/2010	OU2MW-08WT OU2MW-08WT 6/25/2009	OU2MW-08WT OU2MW-08WT 8/13/2009	OU2MW-08WT OU2MW-08WT 11/11/2009	OU2MW-08S OU2MW-08S 12/8/2008	OU2MW-08S OU2MW-08S 2/16/2009	OU2MW-08S OU2MW-08S 2/17/2010	OU2MW-08S OU2MW-08S 6/25/2009	OU2MW-08S OU2MW-08S 8/13/2009	OU2MW-08S OU2MW-08S 11/11/2009	OU2MW-08I OU2MW-08I 12/8/2008	OU2MW-08I OU2MW-08I 2/16/2009	OU2MW-08I OU2MW-08I 2/17/2010	OU2MW-08I OU2MW-08I 6/25/2009	OU2MW-08I OU2MW-08I 8/13/2009	OU2MW-08I DUP-07-Q3 8/13/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.668	NA	0.646	0.562	NA	0.743	0.657	NA	0.69	0.664	NA	0.662	0.624	NA	0.898	0.741	NA	NA
Dissolved Oxygen (mg/L)	NE	5.2	NA	3.95	3.85	NA	ND	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	115	NA	142	96	NA	-115	-147	NA	-103	-129	NA	-21	-40	NA	-23	-57	NA	NA
pH (S.U.)	NE	6.34	NA	6.28	6.35	NA	6.52	6.34	NA	7.04	6.68	NA	6.16	5.94	NA	6.1	6.27	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	10	NA	17.75	19.97	NA	15.17	14.10	NA	16.06	17.0	NA	13.33	13.44	NA	15.56	16.7	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-081 OU2MW-081 11/11/2009	OU2MW-082 OU2MW-082 12/8/2008	OU2MW-082 OU2MW-082 2/16/2009	OU2MW-082 OU2MW-082 2/17/2010	OU2MW-082 OU2MW-082 6/25/2009	OU2MW-082 OU2MW-082 8/13/2009	OU2MW-082 OU2MW-082 11/11/2009	OU2MW-08D OU2MW-08D 12/8/2008	OU2MW-08D OU2MW-08D 2/16/2009	OU2MW-08D OU2MW-08D 2/17/2010	OU2MW-08D OU2MW-08D 6/25/2009	OU2MW-08D OU2MW-08D 8/13/2009	OU2MW-08D OU2MW-08D 11/11/2009	OU2MW-17S OU2MW-17S 5/20/2008	OU2MW-17S OU2MW-17S 8/25/2008	OU2MW-17S OU2MW-17S 12/4/2008	OU2MW-17S OU2MW-17S 3/9/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	4 J	94	43	57	18 J	34	44	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	9	92	28	63	10 J	29	73	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Vinyl acetate	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Vinyl chloride	2	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U
Total VOCs	NE	176	7326	1890	2461	349	850	1905	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	10 U	23	22	29	10 U	15	28	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	1 J	270	160	160 J	10 U	30	140 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	3 J	2 J	2 J	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	4 J	2 J	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	11	10 U	140 J	10 U	10 U	120 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	2600	680	1800	10 U	13	1800	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Phenanthrene	50*	10 U	43	40	51	10 U	12	47	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	1	2954	906	2182	ND	70	2140	ND	ND	ND	ND	ND	ND	ND	2	ND	ND
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																		
Total PAHs	NE	1	2954	906	2182	ND	70	2140	ND	ND	ND	ND	ND	ND	ND	2	ND	ND
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-081 OU2MW-081 11/11/2009	OU2MW-0812 OU2MW-0812 12/8/2008	OU2MW-0812 OU2MW-0812 2/16/2009	OU2MW-0812 OU2MW-0812 2/17/2010	OU2MW-0812 OU2MW-0812 6/25/2009	OU2MW-0812 OU2MW-0812 8/13/2009	OU2MW-0812 OU2MW-0812 11/11/2009	OU2MW-08D OU2MW-08D 12/8/2008	OU2MW-08D OU2MW-08D 2/16/2009	OU2MW-08D OU2MW-08D 2/17/2010	OU2MW-08D OU2MW-08D 6/25/2009	OU2MW-08D OU2MW-08D 8/13/2009	OU2MW-08D OU2MW-08D 11/11/2009	OU2MW-17S OU2MW-17S 5/20/2008	OU2MW-17S OU2MW-17S 8/25/2008	OU2MW-17S OU2MW-17S 12/4/2008	OU2MW-17S OU2MW-17S 3/9/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	1	2954	906	2182	ND	70	2140	ND	ND	ND	ND	ND	ND	NA	2	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19500	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2550	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2250 J	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54.2	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8770	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20200	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-081 OU2MW-081 11/11/2009	OU2MW-0812 OU2MW-0812 12/8/2008	OU2MW-0812 OU2MW-0812 2/16/2009	OU2MW-0812 OU2MW-0812 2/17/2010	OU2MW-0812 OU2MW-0812 6/25/2009	OU2MW-0812 OU2MW-0812 8/13/2009	OU2MW-0812 OU2MW-0812 11/11/2009	OU2MW-08D OU2MW-08D 12/8/2008	OU2MW-08D OU2MW-08D 2/16/2009	OU2MW-08D OU2MW-08D 2/17/2010	OU2MW-08D OU2MW-08D 6/25/2009	OU2MW-08D OU2MW-08D 8/13/2009	OU2MW-08D OU2MW-08D 11/11/2009	OU2MW-17S OU2MW-17S 5/20/2008	OU2MW-17S OU2MW-17S 8/25/2008	OU2MW-17S OU2MW-17S 12/4/2008	OU2MW-17S OU2MW-17S 3/9/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62400	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.852	0.599	NA	0.457	0.375	NA	0.062	0.057	NA	0.061	0.066	NA	NA	0.319	0.693	0.339	NA
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	NA	ND	2.69	ND	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7490	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	-115	-137	NA	-94	-158	NA	81	64	NA	66	45	NA	NA	141	220	131	NA
pH (S.U.)	NE	NA	6.53	6.37	NA	6.73	6.49	NA	6.69	5.57	NA	5.71	5.73	NA	NA	4.61	4.73	5.06	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1600	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18500	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	12.54	12.89	NA	16.59	16.52	NA	12.95	12.79	NA	14.57	16.3	NA	NA	21.64	13.52	9.18	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-17S OU2MW-17S 6/12/2009	OU2MW-17S OU2MW-17S 6/22/2009	OU2MW-17S OU2MW-17S 8/25/2009	OU2MW-17S OU2MW-17S 11/19/2009	OU2MW-17I OU2MW-17I 5/20/2008	OU2MW-17I OU2MW-17I 7/16/2008	OU2MW-17I OU2MW-17I 8/25/2008	OU2MW-17I OU2MW-17I 12/4/2008	OU2MW-17I OU2MW-17I 3/9/2009	OU2MW-17I OU2MW-17I 6/12/2009	OU2MW-17I OU2MW-17I 6/22/2009	OU2MW-17I OU2MW-17I 8/25/2009	OU2MW-17I OU2MW-17I 11/19/2009	OU2MW-17I2 OU2MW-17I2 5/20/2008	OU2MW-17I2 OU2MW-17I2 8/25/2008	OU2MW-17I2 DUP-06 8/25/2008	OU2MW-17I2 OU2MW-17I2 12/4/2008	OU2MW-17I2 DUP-07 12/4/2008
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 U	7 J	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	14	NA	10 U	10 U	5	17	13	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
Vinyl acetate	NE	10 U	10 U	10 UJ	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	ND	ND	ND	9	182	NA	ND	ND	89	213	130	34	3	2	2	2	1	ND
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	10 U	10 U	10 U	10 U	4 J	NA	2 J	10 U	10 U	9	7	3 J	1 J	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	4 J	NA	10 U	10 U	10 U	8	8	3 J	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	1 J	NA	10 U	10 U	10 U	2 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	14	NA	10 U	10 U	10 U	13	8	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	2 J	NA	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	25	NA	2	ND	ND	32	24	6	2	ND	1	ND	ND	ND
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	ND	ND	25	NA	2	ND	ND	32	24	6	2	ND	1	ND	ND	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-17S	OU2MW-17S	OU2MW-17S	OU2MW-17S	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2
		OU2MW-17S 6/12/2009	OU2MW-17S 6/22/2009	OU2MW-17S 8/25/2009	OU2MW-17S 11/19/2009	OU2MW-17I 5/20/2008	OU2MW-17I 7/16/2008	OU2MW-17I 8/25/2008	OU2MW-17I 12/4/2008	OU2MW-17I 3/9/2009	OU2MW-17I 6/12/2009	OU2MW-17I 6/22/2009	OU2MW-17I 8/25/2009	OU2MW-17I 11/19/2009	OU2MW-17I2 5/20/2008	OU2MW-17I2 8/25/2008	OU2MW-17I2 8/25/2008	OU2MW-17I2 12/4/2008	OU2MW-17I2 12/4/2008	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	25	NA	2	NA	NA	32	24	6	2	NA	1	NA	NA	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	28400	NA	NA	NA	NA	NA	NA	NA	NA	18100	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	6310	NA	NA	NA	NA	NA	NA	NA	NA	924	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	3010 J	NA	NA	NA	NA	NA	NA	NA	NA	2970 J	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	180	NA	NA	NA	NA	NA	NA	NA	NA	3440	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	1900 J	NA	NA	NA	NA	NA	NA	NA	NA	5840	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	15200	NA	NA	NA	NA	NA	NA	NA	NA	53800	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-17S OU2MW-17S 6/12/2009	OU2MW-17S OU2MW-17S 6/22/2009	OU2MW-17S OU2MW-17S 8/25/2009	OU2MW-17S OU2MW-17S 11/19/2009	OU2MW-17I OU2MW-17I 5/20/2008	OU2MW-17I OU2MW-17I 7/16/2008	OU2MW-17I OU2MW-17I 8/25/2008	OU2MW-17I OU2MW-17I 12/4/2008	OU2MW-17I OU2MW-17I 3/9/2009	OU2MW-17I OU2MW-17I 6/12/2009	OU2MW-17I OU2MW-17I 6/22/2009	OU2MW-17I OU2MW-17I 8/25/2009	OU2MW-17I OU2MW-17I 11/19/2009	OU2MW-17I2 OU2MW-17I2 5/20/2008	OU2MW-17I2 OU2MW-17I2 8/25/2008	OU2MW-17I2 DUP-06 8/25/2008	OU2MW-17I2 OU2MW-17I2 12/4/2008	OU2MW-17I2 DUP-07 12/4/2008
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	70600	NA	NA	NA	NA	NA	NA	NA	NA	33800	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.422	0.363	0.171	NA	NA	0.90	0.237	0.201	0.277	0.647	0.526	0.612	NA	NA	0.776	NA	0.630	NA
Dissolved Oxygen (mg/L)	NE	ND	7.26	1.15	NA	NA	27	ND	ND	11.59	ND	7.7	ND	NA	NA	ND	NA	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	410	NA	NA	NA	NA	NA	NA	NA	NA	4020	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	99	1	200	NA	NA	84	-62	-68	-137	-80	-102	-68	NA	NA	131	NA	163	NA
pH (S.U.)	NE	6.32	6.31	5.06	NA	NA	6.16	6.14	6.59	6.17	7.27	6.92	6.41	NA	NA	5.83	NA	5.87	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	1300	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	9900	NA	NA	NA	NA	NA	NA	NA	NA	27500	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	17.5	18.2	21.66	NA	NA	15.63	20.45	14.87	11.59	15.73	16.7	17.44	NA	NA	19.1	NA	13.46	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-18I	OU2MW-18I	OU2MW-18I	OU2MW-18I	OU2MW-18I
		OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17I2	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-17D	OU2MW-18I	OU2MW-18I	OU2MW-18I	OU2MW-18I
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	13800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	16300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	4480 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	1500 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	31400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-17I2 OU2MW-17I2 3/6/2009	OU2MW-17I2 OU2MW-17I2 6/12/2009	OU2MW-17I2 OU2MW-17I2 6/22/2009	OU2MW-17I2 OU2MW-17I2 8/25/2009	OU2MW-17I2 OU2MW-17I2 11/19/2009	OU2MW-17D OU2MW-17D 5/20/2008	OU2MW-17D OU2MW-17D 8/25/2008	OU2MW-17D OU2MW-17D 12/4/2008	OU2MW-17D OU2MW-17D 3/6/2009	OU2MW-17D OU2MW-17D 6/12/2009	OU2MW-17D OU2MW-17D 6/22/2009	OU2MW-17D OU2MW-17D 8/25/2009	OU2MW-17D OU2MW-17D 11/19/2009	OU2MW-18I OU2MW-18I 5/19/2008	OU2MW-18I OU2MW-18I 8/25/2008	OU2MW-18I OU2MW-18I 12/9/2008	OU2MW-18I OU2MW-18I 3/5/2009	OU2MW-18I OU2MW-18I 6/11/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	146000	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.513	0.414	0.323	0.396	NA	NA	0.90	0.598	0.839	0.99	0.787	0.580	NA	NA	0.427	0.920	0.656	0.603
Dissolved Oxygen (mg/L)	NE	ND	ND	7.62	ND	NA	NA	ND	ND	ND	ND	7.61	ND	NA	NA	ND	ND	ND	7.08
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	3880	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	123	131	160	125	NA	NA	66	100	98	130	112	93	NA	NA	-90	-119	-128	-104
pH (S.U.)	NE	5.39	6.28	5.9	6.15	NA	NA	4.96	5.04	4.66	5.45	5.15	5.20	NA	NA	6.14	6.55	6.20	6.87
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	100	NA	NA	NA	NA	NA	NA	NA	380	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	133000	NA	NA	NA	NA	NA	NA	NA	26900	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	12.84	16.39	16.1	16.25	NA	NA	19.6	13.26	12.18	16.11	16.3	15.98	NA	NA	17.89	14.75	11.40	14.2
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
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Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-181 OU2MW-181 8/25/2009	OU2MW-181 OU2MW-181 11/20/2009	OU2MW-1812 OU2MW-1812 5/19/2008	OU2MW-1812 OU2MW-1812 8/25/2008	OU2MW-1812 OU2MW-1812 8/29/2008	OU2MW-1812 OU2MW-1812 12/9/2008	OU2MW-1812 OU2MW-1812 3/4/2009	OU2MW-1812 OU2MW-1812 6/11/2009	OU2MW-1812 OU2MW-1812 8/25/2009	OU2MW-1812 OU2MW-1812 11/20/2009	OU2MW-18D OU2MW-18D 5/19/2008	OU2MW-18D OU2MW-18D 8/25/2008	OU2MW-18D OU2MW-18D 12/10/2008	OU2MW-18D OU2MW-18D 3/4/2009	OU2MW-18D OU2MW-18D 6/11/2009	OU2MW-18D OU2MW-18D 8/25/2009	OU2MW-18D OU2MW-18D 11/20/2009	
Trichloroethane, 1,1,1-	5	R	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethane, 1,1,2-	1	R	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	R	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichlorofluoromethane	5	R	10 UJ	10 U	10 U	NA	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	250 J	260	10 U	10 U	NA	10 U	10 U	10 U	10 UJ	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trimethylbenzene, 1,2,4-	5	210 J	350 J	10 U	10 U	NA	10 U	10 U	10 U	10 UJ	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trimethylpentane, 2,2,4-	NE	R	10 U	10 U	10 U	NA	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	
Vinyl acetate	NE	R	10 UJ	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	
Vinyl chloride	2	R	10 UJ	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	
Total VOCs	NE	5367	8298	5	48	NA	24	5	5	6	471	ND	ND	ND	ND	ND	ND	ND	
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	190 J	170 J	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acenaphthylene	NE	51	43	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Anthracene	50*	10	12	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	50*	2 J	3 J	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	50*	55	62	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methylnaphthalene, 2-	NE	340 j	120 J	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	10*	3300	2400	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Phenanthrene	50*	55	68	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Pyrene	50*	3 J	3 J	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Non-carcinogenic PAHs	NE	4006	2881	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PAHs (ug/L)																			
Total PAHs	NE	4006	2881	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-181 OU2MW-181 8/25/2009	OU2MW-181 OU2MW-181 11/20/2009	OU2MW-1812 OU2MW-1812 5/19/2008	OU2MW-1812 OU2MW-1812 8/25/2008	OU2MW-1812 OU2MW-1812 8/29/2008	OU2MW-1812 OU2MW-1812 12/9/2008	OU2MW-1812 OU2MW-1812 3/4/2009	OU2MW-1812 OU2MW-1812 6/11/2009	OU2MW-1812 OU2MW-1812 8/25/2009	OU2MW-1812 OU2MW-1812 11/20/2009	OU2MW-18D OU2MW-18D 5/19/2008	OU2MW-18D OU2MW-18D 8/25/2008	OU2MW-18D OU2MW-18D 12/10/2008	OU2MW-18D OU2MW-18D 3/4/2009	OU2MW-18D OU2MW-18D 6/11/2009	OU2MW-18D OU2MW-18D 8/25/2009	OU2MW-18D OU2MW-18D 11/20/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	4006	2881	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	10800	NA	NA	NA	NA	NA	NA	NA	48100	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	325	NA	NA	NA	NA	NA	NA	NA	46500	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	2790	NA	NA	NA	NA	NA	NA	NA	15400	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	1350	NA	NA	NA	NA	NA	NA	NA	1410	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	3300	NA	NA	NA	NA	NA	NA	NA	3680 J	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	37100	NA	NA	NA	NA	NA	NA	NA	132000	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-18I OU2MW-18I 8/25/2009	OU2MW-18I OU2MW-18I 11/20/2009	OU2MW-18I2 OU2MW-18I2 5/19/2008	OU2MW-18I2 OU2MW-18I2 8/25/2008	OU2MW-18I2 OU2MW-18I2 8/29/2008	OU2MW-18I2 OU2MW-18I2 12/9/2008	OU2MW-18I2 OU2MW-18I2 3/4/2009	OU2MW-18I2 OU2MW-18I2 6/11/2009	OU2MW-18I2 OU2MW-18I2 8/25/2009	OU2MW-18I2 OU2MW-18I2 11/20/2009	OU2MW-18D OU2MW-18D 5/19/2008	OU2MW-18D OU2MW-18D 8/25/2008	OU2MW-18D OU2MW-18D 12/10/2008	OU2MW-18D OU2MW-18D 3/4/2009	OU2MW-18D OU2MW-18D 6/11/2009	OU2MW-18D OU2MW-18D 8/25/2009	OU2MW-18D OU2MW-18D 11/20/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	10000	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.641	NA	NA	NA	0.402	0.382	0.390	0.353	0.409	NA	NA	1.02	8.55	1.22	1.2	0.489	NA	NA
Dissolved Oxygen (mg/L)	NE	ND	NA	NA	NA	ND	ND	7.09	ND	ND	NA	NA	ND	ND	ND	7.15	ND	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	4110	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	-134	NA	NA	NA	141	199	197	268	216	NA	NA	47	54	54	72	88	NA	NA
pH (S.U.)	NE	6.78	NA	NA	NA	5.27	5.38	4.84	5.23	5.38	NA	NA	5.14	5.30	4.91	5.45	5.51	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	630	NA	NA	NA	NA	NA	NA	NA	440	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	37800	NA	NA	NA	NA	NA	NA	NA	225000	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	16.83	NA	NA	NA	18.1	13.57	12.16	14.3	13.84	NA	NA	16.22	13.25	11.60	14	16.00	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-191 5/21/2008	OU2MW-191 8/25/2008	OU2MW-191 11/20/2008	OU2MW-191 3/6/2009	OU2MW-191 6/11/2009	OU2MW-191 8/28/2009	OU2MW-191 11/20/2009	OU2MW-1912 5/23/2008	OU2MW-1912 8/25/2008	OU2MW-1912 11/20/2008	OU2MW-1912 3/5/2009	OU2MW-1912 6/11/2009	OU2MW-1912 9/10/2009	OU2MW-1912 11/20/2009	OU2MW-19D 8/25/2008	OU2MW-19D 12/2/2008	OU2MW-19D 3/5/2009	OU2MW-19D DUP-10 3/5/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	230	180	140	5 J	10 U	5 J	21	330	360	660 J	340	330	370 J	330	63	160	140	120
Trimethylbenzene, 1,2,4-	5	330	250	250	16	11	29	61	1100	470 J	1200	850	450 J	330 J	880 J	130	620 J	330 J	450 J
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	3929	6907	3523	181	150	245	559	12689	12151	22215	12479	7007	6789	11514	3981	9868	6215	4335
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	140	220	92	100	58	44	15	14	20	19	34	41	25	37	7	16	13	12
Acenaphthylene	NE	44	110	21	19	2 J	1 J	2 J	270 J	300 J	250 J	240 J	150 J	130 J	220 J	93	170 J	130 J	140 J
Anthracene	50*	10	12	8	5	3 J	6	5	7	9	8	9	7	5 J	6	3 J	5	5 J	5 J
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	3 J	4 J	3 J	3 J	2 J	3 J	3 J	2 J	2 J	2 J	2 J	1 J	1 J	2 J	10 U	1 J	2 J	1 J
Fluorene	50*	44	59	30	29	20	25	20	36	55	44	53	49	35	43	20	33	31	30
Methylnaphthalene, 2-	NE	240	280	5 J	10 U	10 U	10 U	10 U	750	910	770	860	720	510	740	120	360 J	160 J	170 J
Naphthalene	10*	510	710	160	1 J	2 J	44	10 U	5100	6300	5100	5900	5800	2600	4800	540	3100	1500	1500
Phenanthrene	50*	48	60	34	15	2 J	20	7	31	50	44	47	41	30	35	18	31	19	21
Pyrene	50*	4 J	4 J	4 J	3 J	3 J	3 J	3 J	2 J	2 J	2 J	2 J	2 J	1 J	2 J	10 U	2 J	2 J	2 J
Total Non-carcinogenic PAHs	NE	1043	1459	357	175	92	146	55	6212	7648	6239	7147	6811	3337	5885	801	3718	1862	1881
Carcinogenic PAHs (ug/L)																			
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	1043	1459	357	175	92	146	55	6212	7648	6239	7147	6811	3337	5885	801	3718	1862	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-19D
		5/21/2008	8/25/2008	11/20/2008	3/6/2009	6/11/2009	8/28/2009	11/20/2009	5/23/2008	8/25/2008	11/20/2008	3/5/2009	6/11/2009	9/10/2009	11/20/2009	8/25/2008	12/2/2008	3/5/2009	DUP-10	3/5/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	1043	1459	357	175	92	146	55	6212	7648	6239	7147	6811	3337	5885	801	3718	1862	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	34600	NA	NA	NA	NA	NA	NA	36700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	16400	NA	NA	NA	NA	NA	NA	20300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	4540 J	NA	NA	NA	NA	NA	NA	6370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	373	NA	NA	NA	NA	NA	NA	556	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	8070	NA	NA	NA	NA	NA	NA	3520 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	35100	NA	NA	NA	NA	NA	NA	62900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-191 OU2MW-191 5/21/2008	OU2MW-191 OU2MW-191 8/25/2008	OU2MW-191 OU2MW-191 11/20/2008	OU2MW-191 OU2MW-191 3/6/2009	OU2MW-191 OU2MW-191 6/11/2009	OU2MW-191 OU2MW-191 8/28/2009	OU2MW-191 OU2MW-191 11/20/2009	OU2MW-1912 OU2MW-1912 5/23/2008	OU2MW-1912 OU2MW-1912 8/25/2008	OU2MW-1912 OU2MW-1912 11/20/2008	OU2MW-1912 OU2MW-1912 3/5/2009	OU2MW-1912 OU2MW-1912 6/11/2009	OU2MW-1912 OU2MW-1912 9/10/2009	OU2MW-1912 OU2MW-1912 11/20/2009	OU2MW-19D OU2MW-19D 8/25/2008	OU2MW-19D OU2MW-19D 12/2/2008	OU2MW-19D OU2MW-19D 3/5/2009	OU2MW-19D DUP-10 3/5/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	136000	NA	NA	NA	NA	NA	NA	97200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	101000 J	NA	NA	NA	NA	NA	NA	96000 J	NA	NA	NA	NA	NA	141000 J	NA
Conductivity (mS/cm)	NE	NA	0.568	0.614	0.696	0.859	0.708	NA	NA	0.401	0.361	0.557	0.561	0.561	NA	0.212	0.570	1.32	NA
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	-103	-132	-137	-144	-71	NA	NA	21	-39	8	-48	70	NA	-1	-22	-16	NA
pH (S.U.)	NE	NA	6.24	7.44	6.28	6.32	6.48	NA	NA	5.74	6.58	5.67	5.89	5.84	NA	5.73	6.81	5.36	NA
Standard Plate Count (cfu/ml)	NE	880	NA	NA	NA	NA	NA	NA	NA	1900	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	5000 U	NA	NA	NA	NA	NA	NA	NA	122000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	17.15	15	9.9	13.6	19.17	NA	NA	16.68	14.3	10.63	14.1	15.62	NA	18.7	14.0	9.64	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-19D OU2MW-19D 6/11/2009	OU2MW-19D DUP-08 6/11/2009	OU2MW-19D OU2MW-19D 8/28/2009	OU2MW-19D OU2MW-19D 11/20/2009	OU2MW-20S OU2MW-20S 5/21/2008	OU2MW-20S OU2MW-20S 8/26/2008	OU2MW-20S OU2MW-20S 12/4/2008	OU2MW-20S OU2MW-20S 3/9/2009	OU2MW-20S OU2MW-20S 6/4/2009	OU2MW-20S OU2MW-20S 8/28/2009	OU2MW-20S OU2MW-20S 12/16/2009	OU2MW-20I OU2MW-20I 5/21/2008	OU2MW-20I OU2MW-20I 8/26/2008	OU2MW-20I OU2MW-20I 12/4/2008	OU2MW-20I OU2MW-20I 3/9/2009	OU2MW-20I OU2MW-20I 6/11/2009	OU2MW-20I OU2MW-20I 8/28/2009	OU2MW-20I OU2MW-20I 12/16/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	2841	1918	3601	2932	NA	NA	NA	NA	NA	NA	NA	101	91	NA	74	NA	NA	5
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	24300	NA	NA	NA	NA	NA	NA	30300	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	25800	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	2420 J	NA	NA	NA	NA	NA	NA	4590 J	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	17.8	NA	NA	NA	NA	NA	NA	444	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	1450 J	NA	NA	NA	NA	NA	NA	3060 J	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	7410	NA	NA	NA	NA	NA	NA	45100	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-19D OU2MW-19D 6/11/2009	OU2MW-19D DUP-08 6/11/2009	OU2MW-19D OU2MW-19D 8/28/2009	OU2MW-19D OU2MW-19D 11/20/2009	OU2MW-20S OU2MW-20S 5/21/2008	OU2MW-20S OU2MW-20S 8/26/2008	OU2MW-20S OU2MW-20S 12/4/2008	OU2MW-20S OU2MW-20S 3/9/2009	OU2MW-20S OU2MW-20S 6/4/2009	OU2MW-20S OU2MW-20S 8/28/2009	OU2MW-20S OU2MW-20S 12/16/2009	OU2MW-20I OU2MW-20I 5/21/2008	OU2MW-20I OU2MW-20I 8/26/2008	OU2MW-20I OU2MW-20I 12/4/2008	OU2MW-20I OU2MW-20I 3/9/2009	OU2MW-20I OU2MW-20I 6/11/2009	OU2MW-20I OU2MW-20I 8/28/2009	OU2MW-20I OU2MW-20I 12/16/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	36200	NA	NA	NA	NA	NA	NA	119000	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	59000 J	NA	NA	NA	NA	NA	NA	118000 J	NA	NA	NA
Conductivity (mS/cm)	NE	1.19	NA	1.27	NA	NA	0.183	0.191	0.276	0.67	0.172	NA	NA	0.794	0.395	0.690	0.64	0.397	NA
Dissolved Oxygen (mg/L)	NE	ND	NA	ND	NA	NA	ND	ND	0.7	0.32	ND	NA	NA	ND	ND	ND	ND	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	2960	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	-7	NA	-122	NA	NA	30	-10	97	190	89	NA	NA	-162	-177	-155	-89	-115	NA
pH (S.U.)	NE	5.38	NA	5.87	NA	NA	5.72	6.38	5.73	7.01	6.25	NA	NA	6.57	7.81	6.19	6.24	6.62	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	19900	NA	NA	NA	NA	NA	NA	NA	6100	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	14.4	NA	15.71	NA	NA	19.30	13.8	8.09	13.67	18.65	NA	NA	16.8	15.4	11.26	13.89	16.22	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-2012 OU2MW-2012 5/21/2008	OU2MW-2012 OU2MW-2012 8/26/2008	OU2MW-2012 OU2MW-2012 12/9/2008	OU2MW-2012 OU2MW-2012 3/9/2009	OU2MW-2012 OU2MW-2012 6/11/2009	OU2MW-2012 OU2MW-2012 8/28/2009	OU2MW-2012 OU2MW-2012 12/16/2009	OU2MW-20D OU2MW-20D 8/26/2008	OU2MW-20D OU2MW-20D 12/4/2008	OU2MW-20D OU2MW-20D 3/9/2009	OU2MW-20D OU2MW-20D 6/4/2009	OU2MW-20D OU2MW-20D 8/28/2009	OU2MW-20D OU2MW-20D 12/16/2009	OU2MW-21S OU2MW-21S 12/17/2008	OU2MW-21S OU2MW-21S 2/19/2009	OU2MW-21S OU2MW-21S 6/23/2009	OU2MW-21S OU2MW-21S 9/1/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	4	NA	NA	NA	NA	NA	NA	2	NA	NA	NA	NA	2	424	341	9	4
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	23400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	4210 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	10600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	3930 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	52800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-2012 OU2MW-2012 5/21/2008	OU2MW-2012 OU2MW-2012 8/26/2008	OU2MW-2012 OU2MW-2012 12/9/2008	OU2MW-2012 OU2MW-2012 3/9/2009	OU2MW-2012 OU2MW-2012 6/11/2009	OU2MW-2012 OU2MW-2012 8/28/2009	OU2MW-2012 OU2MW-2012 12/16/2009	OU2MW-20D OU2MW-20D 8/26/2008	OU2MW-20D OU2MW-20D 12/4/2008	OU2MW-20D OU2MW-20D 3/9/2009	OU2MW-20D OU2MW-20D 6/4/2009	OU2MW-20D OU2MW-20D 8/28/2009	OU2MW-20D OU2MW-20D 12/16/2009	OU2MW-21S OU2MW-21S 12/17/2008	OU2MW-21S OU2MW-21S 2/19/2009	OU2MW-21S OU2MW-21S 6/23/2009	OU2MW-21S OU2MW-21S 9/1/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	66800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	47000 J	NA	NA	NA	NA	NA	30000 J	NA	NA	NA	NA	66000	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.297	0.300	0.547	0.399	0.366	NA	0.353	0.164	0.199	0.16	0.123	NA	0.776	0.713	0.626	0.537	NA
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	NA	0.6	ND	7.75	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	1480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	15	90	52	92	127	NA	125	54	101	141	138	NA	-103	-80	-18	-107	NA
pH (S.U.)	NE	NA	5.73	6.31	5.79	5.29	6.19	NA	5.59	5.66	5.31	6.75	5.77	NA	6.58	6.56	6.81	6.31	NA
Standard Plate Count (cfu/ml)	NE	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	20200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	15.98	14.1	11.95	14.27	15.87	NA	16.2	13.9	12.53	13.47	15.22	NA	12.90	12.1	17.8	19.20	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-21S OU2MW-21S 11/19/2009	OU2MW-21I OU2MW-21I 5/23/2008	OU2MW-21I OU2MW-21I 8/26/2008	OU2MW-21I OU2MW-21I 12/17/2008	OU2MW-21I OU2MW-21I 2/20/2009	OU2MW-21I OU2MW-21I 6/23/2009	OU2MW-21I DUP-10-Q2 6/23/2009	OU2MW-21I OU2MW-21I 9/1/2009	OU2MW-21I OU2MW-21I 11/19/2009	OU2MW-21I2 OU2MW-21I2 5/23/2008	OU2MW-21I2 OU2MW-21I2 8/26/2008	OU2MW-21I2 OU2MW-21I2 12/17/2008	OU2MW-21I2 OU2MW-21I2 2/19/2009	OU2MW-21I2 OU2MW-21I2 6/23/2009	OU2MW-21I2 OU2MW-21I2 9/1/2009	OU2MW-21I2 OU2MW-21I2 11/19/2009	OU2MW-22S OU2MW-22S 1/5/2009	OU2MW-22S OU2MW-22S 3/25/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	5417	4165	297	1948	24	85	86	NA	3922	3985	3134	3902	1244	110	10	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46.0 UJ	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3 U	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8 U	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.1 J	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28 UJ	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.35 U	NA
Calcium	NE	NA	28800	NA	NA	NA	NA	NA	NA	NA	15400	NA	NA	NA	NA	NA	NA	48200	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.81 UJ	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7 J	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3 J	NA
Iron	300	NA	2810	NA	NA	NA	NA	NA	NA	NA	898	NA	NA	NA	NA	NA	NA	536	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3 UJ	NA
Magnesium	35000*	NA	5620	NA	NA	NA	NA	NA	NA	NA	2880 J	NA	NA	NA	NA	NA	NA	6040	NA
Manganese	300	NA	10700	NA	NA	NA	NA	NA	NA	NA	2390	NA	NA	NA	NA	NA	NA	535	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2 U	NA
Potassium	NE	NA	12200	NA	NA	NA	NA	NA	NA	NA	2430 J	NA	NA	NA	NA	NA	NA	2980 J	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54 U	NA
Sodium	20000*	NA	70300	NA	NA	NA	NA	NA	NA	NA	51400	NA	NA	NA	NA	NA	NA	8630	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 UJ	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.74 U	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	95.0	NA

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 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-21S OU2MW-21S 11/19/2009	OU2MW-21I OU2MW-21I 5/23/2008	OU2MW-21I OU2MW-21I 8/26/2008	OU2MW-21I OU2MW-21I 12/17/2008	OU2MW-21I OU2MW-21I 2/20/2009	OU2MW-21I OU2MW-21I 6/23/2009	OU2MW-21I DUP-10-Q2 6/23/2009	OU2MW-21I OU2MW-21I 9/1/2009	OU2MW-21I OU2MW-21I 11/19/2009	OU2MW-21I2 OU2MW-21I2 5/23/2008	OU2MW-21I2 OU2MW-21I2 8/26/2008	OU2MW-21I2 OU2MW-21I2 12/17/2008	OU2MW-21I2 OU2MW-21I2 2/19/2009	OU2MW-21I2 OU2MW-21I2 6/23/2009	OU2MW-21I2 OU2MW-21I2 9/1/2009	OU2MW-21I2 OU2MW-21I2 11/19/2009	OU2MW-22S OU2MW-22S 1/5/2009	OU2MW-22S OU2MW-22S 3/25/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	89500	NA	NA	NA	NA	NA	NA	NA	59800	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	116000	NA	NA	NA	NA	NA	NA	NA	70400	NA	NA	NA	NA	114000 J
Conductivity (mS/cm)	NE	NA	NA	0.876	0.725	0.586	0.53	NA	0.677	NA	NA	0.350	0.586	0.590	0.429	0.665	NA	NA	0.285
Dissolved Oxygen (mg/L)	NE	NA	NA	ND	ND	ND	7.9	NA	ND	NA	NA	ND	0.4	ND	20	20	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	5740	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8250	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2510	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	-161	-114	-82	-102	NA	-88	NA	NA	85	75	52	157	151	NA	NA	62
pH (S.U.)	NE	NA	NA	6.37	6.55	6.46	6.71	NA	6.24	NA	NA	5.68	6.14	6.08	5.53	5.99	NA	NA	6.31
Standard Plate Count (cfu/ml)	NE	NA	120	NA	NA	NA	NA	NA	NA	NA	1300	NA	NA	NA	NA	NA	NA	160	NA
Sulfate (ug/L)	250000	NA	79000	NA	NA	NA	NA	NA	NA	NA	16300	NA	NA	NA	NA	NA	NA	22400	NA
Sulfide (ug/L)	50*	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	NA	17.3	14.15	9.0	16.6	NA	17.46	NA	NA	15.98	12.98	12.9	15.7	16.80	NA	NA	10.36
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-22S	OU2MW-22S	OU2MW-22S	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22D	OU2MW-22D	OU2MW-22D	OU2MW-22D	OU2MW-22D
		OU2MW-22S	OU2MW-22S	OU2MW-22S	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22I2	OU2MW-22D	OU2MW-22D	OU2MW-22D	OU2MW-22D	OU2MW-22D
		6/26/2009	9/1/2009	12/15/2009	1/5/2009	3/25/2009	6/26/2009	9/1/2009	12/15/2009	1/5/2009	3/24/2009	6/26/2009	9/1/2009	12/15/2009	1/5/2009	3/24/2009	6/26/2009	9/1/2009	12/15/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	181	32	NA	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	59.5 UJ	NA	NA	NA	NA	35.6 UJ	NA	NA	NA	NA	101 UJ	NA	NA	NA	NA
Antimony	3	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	2.5 UJ	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA
Barium	1000	NA	NA	NA	38.5 J	NA	NA	NA	NA	119 J	NA	NA	NA	30.0 J	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	0.28 UJ	NA	NA	NA	NA	0.25 UJ	NA	NA	NA	NA	0.28 UJ	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.54 J	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	49500	NA	NA	NA	NA	21700	NA	NA	NA	NA	24200	NA	NA	NA	NA
Chromium	50	NA	NA	NA	0.90 UJ	NA	NA	NA	NA	0.50 UJ	NA	NA	NA	NA	1.4 UJ	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	4.7 J	NA	NA	NA	NA	7.5 J	NA	NA	NA	NA	0.88 U	NA	NA	NA	NA
Copper	200	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA
Iron	300	NA	NA	NA	7740	NA	NA	NA	NA	19.1 UJ	NA	NA	NA	NA	264	NA	NA	NA	NA
Lead	25	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	7850	NA	NA	NA	NA	4440 J	NA	NA	NA	NA	7990	NA	NA	NA	NA
Manganese	300	NA	NA	NA	2510	NA	NA	NA	NA	4870	NA	NA	NA	NA	323	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA
Nickel	100	NA	NA	NA	1.2 U	NA	NA	NA	NA	2.2 J	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	2850 J	NA	NA	NA	NA	6150	NA	NA	NA	NA	1730 J	NA	NA	NA	NA
Selenium	10	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA
Silver	50	NA	NA	NA	0.54 U	NA	NA	NA	NA	0.91 J	NA	NA	NA	NA	0.54 U	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	38000	NA	NA	NA	NA	56100	NA	NA	NA	NA	34400	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	2.3 UJ	NA	NA	NA	NA	2.8 UJ	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	6.2 UJ	NA	NA	NA	NA	3.6 UJ	NA	NA	NA	NA	9.4 J	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-22S OU2MW-22S 6/26/2009	OU2MW-22S OU2MW-22S 9/1/2009	OU2MW-22S OU2MW-22S 12/15/2009	OU2MW-221 OU2MW-221 1/5/2009	OU2MW-221 OU2MW-221 3/25/2009	OU2MW-221 OU2MW-221 6/26/2009	OU2MW-221 OU2MW-221 9/1/2009	OU2MW-221 OU2MW-221 12/15/2009	OU2MW-2212 OU2MW-2212 1/5/2009	OU2MW-2212 OU2MW-2212 3/24/2009	OU2MW-2212 OU2MW-2212 6/26/2009	OU2MW-2212 OU2MW-2212 9/1/2009	OU2MW-2212 OU2MW-2212 12/15/2009	OU2MW-22D OU2MW-22D 1/5/2009	OU2MW-22D OU2MW-22D 3/24/2009	OU2MW-22D OU2MW-22D 6/26/2009	OU2MW-22D OU2MW-22D 9/1/2009	OU2MW-22D OU2MW-22D 12/15/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	81800 J	NA	NA	NA	NA	62500 J	NA	NA	NA	NA	71300 J	NA	NA	NA
Conductivity (mS/cm)	NE	0.392	0.309	NA	NA	0.413	0.576	0.516	NA	NA	0.356	0.627	0.462	NA	NA	0.306	0.476	0.405	NA
Dissolved Oxygen (mg/L)	NE	ND	4.99	NA	NA	ND	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	NA	NA	1380	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	100 U	NA	NA	NA	NA	6570	NA	NA	NA	NA	870	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	360	NA	NA	NA	NA	8620	NA	NA	NA	NA	870	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	360	NA	NA	NA	NA	2050	NA	NA	NA	NA	100 U	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	268	155	NA	NA	-49	-42	-30	NA	NA	162	123	175	NA	NA	215	205	171	NA
pH (S.U.)	NE	4.87	6.23	NA	NA	6.50	6.25	6.38	NA	NA	5.95	5.6	5.88	NA	NA	5.30	5.12	5.22	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	720	NA	NA	NA	290	NA	NA	NA	NA	950	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	5990	NA	NA	NA	NA	24500	NA	NA	NA	NA	100000	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	15.27	18.01	NA	NA	11.44	14.62	15.88	NA	NA	10.39	15.99	15.08	NA	NA	9.17	14.68	15.00	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA

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Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-23S	OU2MW-23S	OU2MW-23S	OU2MW-23S	OU2MW-23S	OU2MW-23I	OU2MW-23I	OU2MW-23I	OU2MW-23I	OU2MW-23I	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23D	OU2MW-23D	OU2MW-23D
		12/18/2008	3/13/2009	6/19/2009	9/1/2009	12/15/2009	12/18/2008	3/13/2009	6/19/2009	9/1/2009	12/15/2009	12/18/2008	3/13/2009	6/19/2009	9/1/2009	12/14/2009	12/18/2008	3/13/2009	6/19/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	429	178	63	323	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	153 UJ	NA	NA	NA	NA	23.7 UJ	NA	NA	NA	NA	40.2 UJ	NA	NA	NA	NA	46.5 UJ	NA	NA
Antimony	3	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA
Arsenic	25	1.8 U	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	1.8 U	NA	NA
Barium	1000	8.4 J	NA	NA	NA	NA	35.9 J	NA	NA	NA	NA	39.1 J	NA	NA	NA	NA	28.8 J	NA	NA
Beryllium	3*	0.096 U	NA	NA	NA	NA	0.11 UJ	NA	NA	NA	NA	0.23 UJ	NA	NA	NA	NA	0.51 UJ	NA	NA
Cadmium	5	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.38 UJ	NA	NA
Calcium	NE	7950	NA	NA	NA	NA	44400	NA	NA	NA	NA	14700	NA	NA	NA	NA	12100	NA	NA
Chromium	50	0.79 UJ	NA	NA	NA	NA	0.52 UJ	NA	NA	NA	NA	0.85 UJ	NA	NA	NA	NA	1.1 UJ	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	0.93 J	NA	NA	NA	NA	2.0 J	NA	NA	NA	NA	2.8 J	NA	NA	NA	NA	2.6 J	NA	NA
Copper	200	2.1 J	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	0.65 UJ	NA	NA
Iron	300	213	NA	NA	NA	NA	4540	NA	NA	NA	NA	76.3 J	NA	NA	NA	NA	7050	NA	NA
Lead	25	2.4 UJ	NA	NA	NA	NA	2.0 UJ	NA	NA	NA	NA	1.7 UJ	NA	NA	NA	NA	2.5 UJ	NA	NA
Magnesium	35000*	879 J	NA	NA	NA	NA	7560	NA	NA	NA	NA	5040	NA	NA	NA	NA	3470 J	NA	NA
Manganese	300	24.5	NA	NA	NA	NA	1730	NA	NA	NA	NA	1250	NA	NA	NA	NA	240	NA	NA
Mercury	0.7	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA
Nickel	100	3.4 UJ	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	2.8 UJ	NA	NA	NA	NA	5.6 UJ	NA	NA
Potassium	NE	1050 J	NA	NA	NA	NA	3290 J	NA	NA	NA	NA	3260 J	NA	NA	NA	NA	2960 J	NA	NA
Selenium	10	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA
Silver	50	0.54 UJ	NA	NA	NA	NA	0.54 UJ	NA	NA	NA	NA	0.54 UJ	NA	NA	NA	NA	0.54 UJ	NA	NA
Sodium	20000*	3340 J	NA	NA	NA	NA	43700	NA	NA	NA	NA	38000	NA	NA	NA	NA	12200	NA	NA
Thallium	0.5*	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA
Vanadium	NE	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA
Zinc	2000*	27.8	NA	NA	NA	NA	5.0 UJ	NA	NA	NA	NA	7.7 UJ	NA	NA	NA	NA	27.3	NA	NA

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 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-23S OU2MW-23S 12/18/2008	OU2MW-23S OU2MW-23S 3/13/2009	OU2MW-23S OU2MW-23S 6/19/2009	OU2MW-23S OU2MW-23S 9/1/2009	OU2MW-23S OU2MW-23S 12/15/2009	OU2MW-23I OU2MW-23I 12/18/2008	OU2MW-23I OU2MW-23I 3/13/2009	OU2MW-23I OU2MW-23I 6/19/2009	OU2MW-23I OU2MW-23I 9/1/2009	OU2MW-23I OU2MW-23I 12/15/2009	OU2MW-23I2 OU2MW-23I2 12/18/2008	OU2MW-23I2 OU2MW-23I2 3/13/2009	OU2MW-23I2 OU2MW-23I2 6/19/2009	OU2MW-23I2 OU2MW-23I2 9/1/2009	OU2MW-23I2 OU2MW-23I2 12/14/2009	OU2MW-23D OU2MW-23D 12/18/2008	OU2MW-23D OU2MW-23D 3/13/2009	OU2MW-23D OU2MW-23D 6/19/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	25500 J	NA	NA	NA	NA	63400 J	NA	NA	NA	NA	88000 J	NA	NA	NA	NA	88000 J	NA
Conductivity (mS/cm)	NE	NA	NA	0.173	0.129	NA	NA	0.440	0.574	0.515	NA	NA	0.335	0.421	0.237	NA	NA	0.286	0.518
Dissolved Oxygen (mg/L)	NE	NA	NA	ND	0.36	NA	NA	ND	ND	ND	NA	NA	ND	ND	ND	NA	NA	ND	ND
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	230 J	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	470	NA	NA	NA	NA	100 U	NA	NA	NA	NA	5010	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	470	NA	NA	NA	NA	210	NA	NA	NA	NA	5010	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	100 UJ	NA	NA	NA	NA	210 J	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	186	117	NA	NA	-66	-47	-47	NA	NA	201	152	220	NA	NA	40	72
pH (S.U.)	NE	NA	NA	6.04	5.46	NA	NA	7.82	6.74	6.37	NA	NA	5.94	5.77	5.50	NA	NA	6.77	5.98
Standard Plate Count (cfu/ml)	NE	200	NA	NA	NA	NA	360	NA	NA	NA	NA	110	NA	NA	NA	NA	690	NA	NA
Sulfate (ug/L)	250000	5000 U	NA	NA	NA	NA	15200	NA	NA	NA	NA	22400	NA	NA	NA	NA	48400	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	16.91	20.89	NA	NA	11.7	15.34	17.92	NA	NA	12.12	15.58	16.30	NA	NA	10.95	16.02
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-23D OU2MW-23D 9/1/2009	OU2MW-23D OU2MW-23D 12/14/2009	OU2MW-24S OU2MW-24S 12/30/2008	OU2MW-24S OU2MW-24S 3/17/2009	OU2MW-24S OU2MW-24S 6/22/2009	OU2MW-24S OU2MW-24S 9/1/2009	OU2MW-24S OU2MW-24S 12/14/2009	OU2MW-24I OU2MW-24I 12/30/2008	OU2MW-24I OU2MW-24I 3/17/2009	OU2MW-24I OU2MW-24I 6/25/2009	OU2MW-24I OU2MW-24I 9/1/2009	OU2MW-24I OU2MW-24I 12/14/2009	OU2MW-24I2 OU2MW-24I2 12/30/2008	OU2MW-24I2 DUP-14 12/30/2008	OU2MW-24I2 OU2MW-24I2 3/16/2009	OU2MW-24I2 OU2MW-24I2 6/25/2009	OU2MW-24I2 OU2MW-24I2 9/1/2009	OU2MW-24I2 OU2MW-24I2 12/14/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	3	NA	6015	5796	1068	493	80	4	2	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	34.7 UJ	NA	NA	NA	NA	28.9 UJ	NA	NA	NA	NA	44.5 UJ	NA	NA	NA	NA	NA
Antimony	3	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	2.0 UJ	NA	NA	NA	NA	2.3 UJ	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	NA
Barium	1000	NA	NA	7.4 J	NA	NA	NA	NA	54.7 J	NA	NA	NA	NA	78.7 J	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	0.21 UJ	NA	NA	NA	NA	0.19 UJ	NA	NA	NA	NA	0.23 UJ	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	1.6 J	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	24100	NA	NA	NA	NA	35800	NA	NA	NA	NA	15200	NA	NA	NA	NA	NA
Chromium	50	NA	NA	0.71 UJ	NA	NA	NA	NA	0.58 UJ	NA	NA	NA	NA	0.69 UJ	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	4.2 J	NA	NA	NA	NA	11.4 J	NA	NA	NA	NA	24.9 J	NA	NA	NA	NA	NA
Copper	200	NA	NA	1.3 J	NA	NA	NA	NA	1.6 J	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	NA
Iron	300	NA	NA	612	NA	NA	NA	NA	31900	NA	NA	NA	NA	808	NA	NA	NA	NA	NA
Lead	25	NA	NA	1.3 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	2850 J	NA	NA	NA	NA	5130	NA	NA	NA	NA	5760	NA	NA	NA	NA	NA
Manganese	300	NA	NA	673	NA	NA	NA	NA	1290	NA	NA	NA	NA	321	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
Nickel	100	NA	NA	1.2 U	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	6.6 J	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	1490 J	NA	NA	NA	NA	4080 J	NA	NA	NA	NA	1380 J	NA	NA	NA	NA	NA
Selenium	10	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA
Silver	50	NA	NA	0.54 U	NA	NA	NA	NA	0.54 U	NA	NA	NA	NA	0.54 U	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	8400	NA	NA	NA	NA	61700	NA	NA	NA	NA	27300	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	1.9 U	NA	NA	NA	NA	6.4 UJ	NA	NA	NA	NA	2.7 UJ	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	0.74 U	NA	NA	NA	NA	0.81 J	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	23.8	NA	NA	NA	NA	8.8 J	NA	NA	NA	NA	17.9 J	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-23D OU2MW-23D 9/1/2009	OU2MW-23D OU2MW-23D 12/14/2009	OU2MW-24S OU2MW-24S 12/30/2008	OU2MW-24S OU2MW-24S 3/17/2009	OU2MW-24S OU2MW-24S 6/22/2009	OU2MW-24S OU2MW-24S 9/1/2009	OU2MW-24S OU2MW-24S 12/14/2009	OU2MW-24I OU2MW-24I 12/30/2008	OU2MW-24I OU2MW-24I 3/17/2009	OU2MW-24I OU2MW-24I 6/25/2009	OU2MW-24I OU2MW-24I 9/1/2009	OU2MW-24I OU2MW-24I 12/14/2009	OU2MW-24I2 OU2MW-24I2 12/30/2008	OU2MW-24I2 DUP-14 12/30/2008	OU2MW-24I2 OU2MW-24I2 3/16/2009	OU2MW-24I2 OU2MW-24I2 6/25/2009	OU2MW-24I2 OU2MW-24I2 9/1/2009	OU2MW-24I2 OU2MW-24I2 12/14/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	50200 J	NA	NA	NA	NA	121000 J	NA	NA	NA	NA	NA	59800 J	NA	NA	NA
Conductivity (mS/cm)	NE	0.645	NA	NA	0.339	0.224	0.606	NA	NA	0.518	0.549	0.665	NA	NA	NA	0.220	0.358	0.380	NA
Dissolved Oxygen (mg/L)	NE	ND	NA	NA	ND	7.92	ND	NA	NA	ND	8.26	ND	NA	NA	NA	ND	7.94	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	800 J	NA	NA	NA	NA	100 U	NA	NA	NA	NA	200 J	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	1150	NA	NA	NA	NA	430	NA	NA	NA	NA	310	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	350	NA	NA	NA	NA	430	NA	NA	NA	NA	110	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	54	NA	NA	-1	49	-6	NA	NA	-98	-93	-71	NA	NA	NA	169	212	242	NA
pH (S.U.)	NE	5.33	NA	NA	7.14	6.2	6.35	NA	NA	8.28	7.33	6.43	NA	NA	NA	5.53	5.08	5.21	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	48	NA	NA	NA	NA	62	NA	NA	NA	NA	320	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	10600	NA	NA	NA	NA	7920	NA	NA	NA	NA	83700	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	17.87	NA	NA	8.97	17.4	20.33	NA	NA	12.70	15	15.86	NA	NA	NA	12.41	15.3	16.07	NA
Total Phosphorous (ug/L)	NE	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	NA

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Analytical Groundwater Data Summary
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Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-24D OU2MW-24D 12/29/2008	OU2MW-24D OU2MW-24D 3/16/2009	OU2MW-24D OU2MW-24D 6/26/2009	OU2MW-24D OU2MW-24D 9/1/2009	OU2MW-24D OU2MW-24D 12/14/2009	OU2MW-25S OU2MW-25S 12/18/2008	OU2MW-25S DUP-12 12/18/2008	OU2MW-25S OU2MW-25S 3/16/2009	OU2MW-25S OU2MW-25S 6/26/2009	OU2MW-25S OU2MW-25S 8/31/2009	OU2MW-25S OU2MW-25S 12/11/2009	OU2MW-25I OU2MW-25I 12/18/2008	OU2MW-25I OU2MW-25I 3/16/2009	OU2MW-25I OU2MW-25I 6/26/2009	OU2MW-25I OU2MW-25I 8/31/2009	OU2MW-25I OU2MW-25I 12/7/2009	OU2MW-25I2 OU2MW-25I2 12/18/2008	OU2MW-25I2 OU2MW-25I2 3/16/2009		
BTEX (ug/L)																					
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	110	200	130	45	420	10 U	10 U	
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	6	10 U	10 U	
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	43	10 U	10 U	270	10 U	10 U	
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	6	4 J	1 J	15	10 U	10 U	
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9 J	25	4 J	3 J	21	10 U	10 U	
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	276	138	49	732	ND	ND	
Other VOCs (ug/L)																					
Acetaldehyde	8*	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	
Acetone	50*	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	
Allyl chloride	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromoform	50*	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	
Butadiene, 1,3-	NE	R	R	10 U	10 UJ	R	10 U	10 UJ	R	10 U	10 UJ	R	10 UJ	R	10 U	10 UJ	R	10 U	10 U	R	
Butanone, 2-	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Carbon disulfide	60*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloromethane	5	10 UJ	10 U	10 UJ	10 U	4 J	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	
Chlorotoluene	5	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	
Cryofluorane	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10	10 U	10 UJ	
Decane, n-	NE	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	10 UJ	NA	
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,2-	3	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,3-	3	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	
Dichlorodifluoromethane	5	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloroethene, 1,1-	0.07	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloropropane, 1,2-	1	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Dodecane, n-	NE	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	10 UJ	NA	
Ethanol	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Heptane, n-	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	
Hexachlorobutadiene	0.5	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	
Hexanone, 2-	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Isopropyl benzene	5	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	7	6 J	3 J	25	10 UJ	10 UJ
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	4 J	5	
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	10*	10 U	10 U	10 UJ	6 J	10 UJ	10 U	11	10 UJ	10 UJ	10 U	10 U	64	42 J	9 J	10 U	19	10 U	10 UJ		
Nonane	NE	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	10 UJ	NA	
Octane, n-	NE	10 U	NA	NA	NA	NA	10 UJ	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	10 UJ	NA	
Propanol, 2-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Propylbenzene, n-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	3 J	10 UJ	10 UJ	10 UJ	
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Tetrachloroethane, 1,1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Tetrachloroethene	5	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	
Tetrahydrofuran	50*	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	
Trans-1,2-dichloroethene	5	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	
Trichlorobenzene, 1,2,4-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	



Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S
		12/29/2008	3/16/2009	6/26/2009	9/1/2009	12/14/2009	12/18/2008	12/18/2008	DUP-12	3/16/2009	6/26/2009	8/31/2009	12/11/2009	12/18/2008	3/16/2009	6/26/2009	8/31/2009	12/7/2009	12/18/2008	3/16/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	2 J	8	9 J	3 J	7 J	10 U	10 UJ
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	3 J	14	3 J	2 J	51	10 UJ	10 UJ
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Total VOCs	NE	ND	ND	ND	6	4	ND	11	ND	ND	ND	ND	ND	194	347	165	57	847	4	5
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	39 J	31	44	24	18	10 UJ	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	37	30	53	24	20	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	3 J	3 J	3 J	2 J	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	1 J	1 J	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8	7	6	5	2 J	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	42 J	31	3 J	10 U	9	10 UJ	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16	16	21	14	10	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	2 J	2 J	2 J	2 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	149	121	133	72	63	ND	ND
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																				
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	149	121	133	72	63	ND	ND
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I2	OU2MW-25I2
		OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	DUP-12	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25S	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I	OU2MW-25I2
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	149	121	133	72	63	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	107 UJ	NA	NA	NA	NA	73.0 UJ	NA	NA	NA	NA	NA	NA	101 UJ	NA	NA	NA	NA	92.6 UJ	NA
Antimony	3	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA
Arsenic	25	2.4 UJ	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	NA	NA	2.5 J	NA	NA	NA	NA	1.8 U	NA
Barium	1000	11.0 J	NA	NA	NA	NA	39.4 J	NA	NA	NA	NA	NA	NA	42.8 J	NA	NA	NA	NA	143 J	NA
Beryllium	3*	0.18 UJ	NA	NA	NA	NA	0.27 UJ	NA	NA	NA	NA	NA	NA	0.13 UJ	NA	NA	NA	NA	0.11 UJ	NA
Cadmium	5	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.79 UJ	NA
Calcium	NE	5750	NA	NA	NA	NA	56100	NA	NA	NA	NA	NA	NA	46600	NA	NA	NA	NA	21200	NA
Chromium	50	0.89 UJ	NA	NA	NA	NA	0.45 UJ	NA	NA	NA	NA	NA	NA	0.61 UJ	NA	NA	NA	NA	1.0 UJ	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.9 J	NA	NA	NA	NA	0.88 U	NA	NA	NA	NA	NA	NA	6.1 J	NA	NA	NA	NA	8.0 J	NA
Copper	200	2.4 J	NA	NA	NA	NA	3.7 J	NA	NA	NA	NA	NA	NA	1.1 J	NA	NA	NA	NA	0.65 UJ	NA
Iron	300	7620	NA	NA	NA	NA	29.4 UJ	NA	NA	NA	NA	NA	NA	14500	NA	NA	NA	NA	123	NA
Lead	25	1.3 UJ	NA	NA	NA	NA	2.2 UJ	NA	NA	NA	NA	NA	NA	1.9 UJ	NA	NA	NA	NA	2.4 UJ	NA
Magnesium	35000*	2310 J	NA	NA	NA	NA	6780	NA	NA	NA	NA	NA	NA	7230	NA	NA	NA	NA	4280 J	NA
Manganese	300	128	NA	NA	NA	NA	34.5	NA	NA	NA	NA	NA	NA	1410	NA	NA	NA	NA	5080	NA
Mercury	0.7	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA
Nickel	100	1.2 U	NA	NA	NA	NA	1.5 UJ	NA	NA	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	4.4 UJ	NA
Potassium	NE	811 J	NA	NA	NA	NA	5180	NA	NA	NA	NA	NA	NA	3200 J	NA	NA	NA	NA	6080	NA
Selenium	10	1.9 U	NA	NA	NA	NA	2.8 J	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA
Silver	50	0.54 U	NA	NA	NA	NA	0.54 UJ	NA	NA	NA	NA	NA	NA	0.54 UJ	NA	NA	NA	NA	0.61 J	NA
Sodium	20000*	7670	NA	NA	NA	NA	59500	NA	NA	NA	NA	NA	NA	35500	NA	NA	NA	NA	45000	NA
Thallium	0.5*	3.6 UJ	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA
Vanadium	NE	0.91 J	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA
Zinc	2000*	13.0 J	NA	NA	NA	NA	51.4	NA	NA	NA	NA	NA	NA	11.0 UJ	NA	NA	NA	NA	44.4	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-24D OU2MW-24D 12/29/2008	OU2MW-24D OU2MW-24D 3/16/2009	OU2MW-24D OU2MW-24D 6/26/2009	OU2MW-24D OU2MW-24D 9/1/2009	OU2MW-24D OU2MW-24D 12/14/2009	OU2MW-25S OU2MW-25S 12/18/2008	OU2MW-25S DUP-12 12/18/2008	OU2MW-25S OU2MW-25S 3/16/2009	OU2MW-25S OU2MW-25S 6/26/2009	OU2MW-25S OU2MW-25S 8/31/2009	OU2MW-25S OU2MW-25S 12/11/2009	OU2MW-25I OU2MW-25I 12/18/2008	OU2MW-25I OU2MW-25I 3/16/2009	OU2MW-25I OU2MW-25I 6/26/2009	OU2MW-25I OU2MW-25I 8/31/2009	OU2MW-25I OU2MW-25I 12/7/2009	OU2MW-25I2 OU2MW-25I2 12/18/2008	OU2MW-25I2 OU2MW-25I2 3/16/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	98600 J	NA	NA	NA	NA	NA	68600 J	NA	NA	NA	NA	61600 J	NA	NA	NA	NA	44000 J
Conductivity (mS/cm)	NE	NA	0.251	0.396	0.570	NA	NA	NA	0.399	0.411	0.510	NA	NA	0.396	0.393	0.329	NA	NA	0.348
Dissolved Oxygen (mg/L)	NE	NA	5.42	8.31	ND	NA	NA	NA	ND	7.89	3.26	NA	NA	ND	8.345	ND	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	110	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	320 J	NA	NA	NA	NA	2080 J	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	NA	NA	2000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	3590	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	160	NA	NA	NA	NA	3370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6180	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	160	NA	NA	NA	NA	1370 J	NA	NA	NA	NA	NA	590 J	NA	NA	NA	NA	2590 J	NA
Oxidation Reduction Potential (mV)	NE	NA	52	48	21	NA	NA	NA	100	121	70	NA	NA	-69	-99	-112	NA	NA	189
pH (S.U.)	NE	NA	7.13	5.92	5.44	NA	NA	NA	6.85	6.06	6.36	NA	NA	9.40	7.66	6.68	NA	NA	5.83
Standard Plate Count (cfu/ml)	NE	340	NA	NA	NA	NA	120	NA	NA	NA	NA	NA	5000	NA	NA	NA	NA	140	NA
Sulfate (ug/L)	250000	21800	NA	NA	NA	NA	30100	NA	NA	NA	NA	NA	8970	NA	NA	NA	NA	23000	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	12.14	14.6	15.23	NA	NA	NA	8.77	16.2	19.59	NA	NA	11.73	14.7	16.92	NA	NA	11.94
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-25I2	OU2MW-25I2	OU2MW-25I2	OU2MW-25D	OU2MW-25D	OU2MW-25D	OU2MW-25D	OU2MW-25D	OU2MW-25D	OU2MW-26S	OU2MW-26S	OU2MW-26S	OU2MW-26S	OU2MW-26S	OU2MW-26S	OU2MW-26S	OU2MW-26I	OU2MW-26I
		OU2MW-25I2 6/26/2009	OU2MW-25I2 8/31/2009	OU2MW-25I2 12/11/2009	OU2MW-25D 12/18/2008	OU2MW-25D 3/16/2009	OU2MW-25D 6/26/2009	OU2MW-25D 8/31/2009	OU2MW-25D 12/7/2009	OU2MW-26S 5/22/2008	OU2MW-26S 8/26/2008	OU2MW-26S 12/11/2008	OU2MW-26S 2/18/2009	OU2MW-26S 6/12/2009	OU2MW-26S 9/2/2009	OU2MW-26S 11/18/2009	OU2MW-26I 5/22/2008	OU2MW-26I 8/26/2008	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	102	154
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	254	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	22.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	0.26 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	12900	NA	NA	NA	NA	44000	NA	NA	NA	NA	NA	NA	27800	NA	NA
Chromium	50	NA	NA	NA	1.6 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	1.9 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	11700	NA	NA	NA	NA	19.8 J	NA	NA	NA	NA	NA	NA	27000	NA	NA
Lead	25	NA	NA	NA	2.6 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	5090	NA	NA	NA	NA	6960	NA	NA	NA	NA	NA	NA	5320	NA	NA
Manganese	300	NA	NA	NA	801	NA	NA	NA	NA	711	NA	NA	NA	NA	NA	NA	285	NA	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	2.6 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	1130 J	NA	NA	NA	NA	1810 J	NA	NA	NA	NA	NA	NA	2660 J	NA	NA
Selenium	10	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	0.54 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	17900	NA	NA	NA	NA	8160	NA	NA	NA	NA	NA	NA	39200	NA	NA
Thallium	0.5*	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	10.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-25I2 OU2MW-25I2 6/26/2009	OU2MW-25I2 OU2MW-25I2 8/31/2009	OU2MW-25I2 OU2MW-25I2 12/11/2009	OU2MW-25D OU2MW-25D 12/18/2008	OU2MW-25D OU2MW-25D 3/16/2009	OU2MW-25D OU2MW-25D 6/26/2009	OU2MW-25D OU2MW-25D 8/31/2009	OU2MW-25D OU2MW-25D 12/7/2009	OU2MW-26S OU2MW-26S 5/22/2008	OU2MW-26S OU2MW-26S 8/26/2008	OU2MW-26S OU2MW-26S 12/11/2008	OU2MW-26S OU2MW-26S 2/18/2009	OU2MW-26S OU2MW-26S 6/12/2009	OU2MW-26S OU2MW-26S 9/2/2009	OU2MW-26S OU2MW-26S 11/18/2009	OU2MW-26I OU2MW-26I 5/22/2008	OU2MW-26I OU2MW-26I 8/26/2008	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	92800	NA	NA	NA	NA	NA	NA	NA	65800	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	52800 J	NA	NA	NA	NA	NA	NA	25500 J	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.462	0.539	NA	NA	0.421	0.528	0.710	NA	NA	0.375	0.606	0.230	0.252	0.154	NA	NA	NA	0.450
Dissolved Oxygen (mg/L)	NE	8.09	ND	NA	NA	ND	8.06	ND	NA	NA	ND	0.5	3	ND	2.10	NA	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	100 U	NA	NA	NA	NA	2310	NA	NA	NA	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	176	144	NA	NA	83	91	93	NA	NA	28	80	7	-1	138	NA	NA	NA	-90
pH (S.U.)	NE	5.4	5.93	NA	NA	6.73	5.6	5.36	NA	NA	6.50	6.52	6.74	6.67	6.48	NA	NA	NA	6.09
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	1600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160
Sulfate (ug/L)	250000	NA	NA	NA	82500	NA	NA	NA	NA	8900	NA	NA	NA	NA	NA	NA	NA	16200	NA
Sulfide (ug/L)	50*	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	15	17.20	NA	NA	12.21	15.3	16.95	NA	NA	19.8	12.30	8.3	17.1	23.15	NA	NA	NA	18.08
Total Phosphorous (ug/L)	NE	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Analytical Groundwater Data Summary
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Table with columns: Location Code, Sample Name, Sample Date, and 19 monitoring wells (OU2MW-261 to OU2MW-26D). Rows include BTEX (Benzene, Toluene, Ethylbenzene, Xylene, Total BTEX) and Other VOCs (Acetaldehyde, Acetone, Allyl chloride, Bromodichloromethane, Bromoform, Bromomethane, Butadiene, Butanone, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, Chlorotoluene, Cryofluorane, Cyclohexane, Decane, Dibromochloromethane, Dibromoethane, Dichlorobenzene, Dichlorodifluoromethane, Dichloroethane, Dichloroethene, Dichloroethene cis-1,2, Dichloropropane, Dichloropropene, Dioxane, Dodecane, Ethanol, Heptane, Hexachlorobutadiene, Hexane, Hexanone, Isopropyl benzene, Methyl tert-butyl ether, Methyl-2-pentanone, Methylene chloride, Naphthalene, Nonane, Octane, Propanol, Propylbenzene, Styrene, Tetrachloroethane, Tetrachloroethene, Tetrahydrofuran, Trans-1,2-dichloroethene, Trichloro-1,2,2-trifluoroethane, Trichlorobenzene).

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-261 OU2MW-261 12/11/2008	OU2MW-261 OU2MW-261 2/18/2009	OU2MW-261 OU2MW-261 6/12/2009	OU2MW-261 OU2MW-261 9/2/2009	OU2MW-261 OU2MW-261 11/18/2009	OU2MW-2612 OU2MW-2612 5/22/2008	OU2MW-2612 OU2MW-2612 8/26/2008	OU2MW-2612 OU2MW-2612 12/15/2008	OU2MW-2612 OU2MW-2612 2/18/2009	OU2MW-2612 OU2MW-2612 6/12/2009	OU2MW-2612 OU2MW-2612 9/2/2009	OU2MW-2612 OU2MW-2612 11/19/2009	OU2MW-26D OU2MW-26D 5/22/2008	OU2MW-26D OU2MW-26D 8/26/2008	OU2MW-26D OU2MW-26D 12/15/2008	OU2MW-26D OU2MW-26D 2/18/2009	OU2MW-26D OU2MW-26D 6/12/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	235	277	NA	3	NA	54	965	3990	2576	26	14	7	623	149	1369	1742	3482
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	18100	NA	NA	NA	NA	NA	NA	5720	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	2960	NA	NA	NA	NA	NA	NA	242	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	3700 J	NA	NA	NA	NA	NA	NA	2280 J	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	16200	NA	NA	NA	NA	NA	NA	1910	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	3390 J	NA	NA	NA	NA	NA	NA	1220 J	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	44100	NA	NA	NA	NA	NA	NA	13000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-261 OU2MW-261 12/11/2008	OU2MW-261 OU2MW-261 2/18/2009	OU2MW-261 OU2MW-261 6/12/2009	OU2MW-261 OU2MW-261 9/2/2009	OU2MW-261 OU2MW-261 11/18/2009	OU2MW-2612 OU2MW-2612 5/22/2008	OU2MW-2612 OU2MW-2612 8/26/2008	OU2MW-2612 OU2MW-2612 12/15/2008	OU2MW-2612 OU2MW-2612 2/18/2009	OU2MW-2612 OU2MW-2612 6/12/2009	OU2MW-2612 OU2MW-2612 9/2/2009	OU2MW-2612 OU2MW-2612 11/19/2009	OU2MW-26D OU2MW-26D 5/22/2008	OU2MW-26D OU2MW-26D 8/26/2008	OU2MW-26D OU2MW-26D 12/15/2008	OU2MW-26D OU2MW-26D 2/18/2009	OU2MW-26D OU2MW-26D 6/12/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	62200	NA	NA	NA	NA	NA	NA	11700	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	88000	NA	NA	NA	NA	NA	NA	52800	NA	NA	NA	NA	NA	NA	17600	NA	NA
Conductivity (mS/cm)	NE	0.999	0.517	0.407	0.425	NA	NA	0.346	0.473	0.490	0.52	0.426	NA	NA	0.179	0.114	0.105	0.203	
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	7.19	NA	NA	ND	ND	34	20	NA	NA	NA	ND	ND	ND	ND	1.1
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	-121	-87	-102	3	NA	NA	36	-17	-17	43	177	NA	NA	85	124	66	113	
pH (S.U.)	NE	6.53	6.51	6.27	5.89	NA	NA	5.75	6.17	6.29	6.06	6.25	NA	NA	5.52	5.83	5.59	5.64	
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	970	NA	NA	NA	NA	NA	NA	NA	1700	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	13500	NA	NA	NA	NA	NA	NA	22600	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	14.05	10.6	15.2	18.14	NA	NA	16.56	13.09	12.2	15.1	17.39	NA	NA	16.8	13.19	11.4	14.9	
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-26D OU2MW-26D 9/2/2009	OU2MW-26D OU2MW-26D 11/19/2009	OU2MW-27S OU2MW-27S 12/28/2009	OU2MW-27I OU2MW-27I 12/28/2009	OU2MW-27I DUP-LS 12/28/2009	OU2MW-27I2 OU2MW-27I2 12/28/2009	OU2MW-27D OU2MW-27D 12/28/2009	OU2MW-28S OU2MW-28S 9/19/2008	OU2MW-28S OU2MW-28S 12/30/2008	OU2MW-28S OU2MW-28S 3/4/2009	OU2MW-28S OU2MW-28S 4/17/2009	OU2MW-28S OU2MW-28S 5/21/2009	OU2MW-28S OU2MW-28S 6/24/2009	OU2MW-28S OU2MW-28S 7/22/2009	OU2MW-28S OU2MW-28S 8/18/2009	OU2MW-28S OU2MW-28S 9/24/2009	OU2MW-28S OU2MW-28S 10/30/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Total SVOCs	NE	4328	5814	NA	10	12	18	1150	NA	NA	NA	NA	1	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	36.6 UJ	NA	NA	NA	103 J	NA	NA	97.3 UJ	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	1.8 U	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	11.9 J	NA	NA	NA	17.4 J	NA	NA	14.7 UJ	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	0.52 UJ	NA	NA	NA	0.18 UJ	NA	NA	0.13 U	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.26 U	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	21800	NA	NA	NA	22500	NA	NA	32900	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	0.77 UJ	NA	NA	NA	0.84 UJ	NA	NA	0.70 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	0.88 U	NA	NA	NA	1.2 U	NA	NA	0.76 U	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	0.74 J	NA	NA	NA	4.4 J	NA	NA	3.4 J	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	22.4 J	NA	NA	NA	86.3 J	NA	NA	42.1 J	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	1.3 U	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	3460 J	NA	NA	NA	4050 J	NA	NA	5100	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	57.3	NA	NA	NA	8.2 J	NA	NA	1.1 UJ	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	1.8 J	NA	NA	NA	1.6 J	NA	NA	2.2 UJ	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	2310 J	NA	NA	NA	2180 J	NA	NA	2350 J	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	0.79 UJ	NA	NA	NA	0.60 U	NA	NA	0.43 UJ	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	7460	NA	NA	NA	37700	NA	NA	10600	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	2.3 J	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	0.74 U	NA	NA	NA	1.0 J	NA	NA	0.77 U	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	21.0	NA	NA	NA	27.2 J	NA	NA	18.3 J	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-26D OU2MW-26D 9/2/2009	OU2MW-26D OU2MW-26D 11/19/2009	OU2MW-27S OU2MW-27S 12/28/2009	OU2MW-27I OU2MW-27I 12/28/2009	OU2MW-27I DUP-LS 12/28/2009	OU2MW-27I2 OU2MW-27I2 12/28/2009	OU2MW-27D OU2MW-27D 12/28/2009	OU2MW-28S OU2MW-28S 9/19/2008	OU2MW-28S OU2MW-28S 12/30/2008	OU2MW-28S OU2MW-28S 3/4/2009	OU2MW-28S OU2MW-28S 4/17/2009	OU2MW-28S OU2MW-28S 5/21/2009	OU2MW-28S OU2MW-28S 6/24/2009	OU2MW-28S OU2MW-28S 7/22/2009	OU2MW-28S OU2MW-28S 8/18/2009	OU2MW-28S OU2MW-28S 9/24/2009	OU2MW-28S OU2MW-28S 10/30/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.146	NA	NA	NA	NA	NA	NA	NA	0.631	0.37	0.412	0.367	0.327	0.317	0.317	0.317	0.317	NA
Dissolved Oxygen (mg/L)	NE	ND	NA	NA	NA	NA	NA	NA	NA	13.2	22	20	24	20	26	32	32	32	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	3870	NA	NA	NA	2830 J	NA	NA	4160	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	4100	NA	NA	NA	3190	NA	NA	4160	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	230	NA	NA	NA	360	NA	NA	100 U	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	108	NA	NA	NA	NA	NA	NA	NA	NA	119	174	134	212	311	340	152	152	NA
pH (S.U.)	NE	5.87	NA	NA	NA	NA	NA	NA	NA	NA	5.70	6.09	6.14	5.81	6.28	6.00	5.79	5.79	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	4600	NA	420	320	280	1400	NA	91	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	18200	NA	NA	NA	21400	NA	NA	32900	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	17.52	NA	NA	NA	NA	NA	NA	NA	NA	9.30	12.2	15.6	20.16	19.6	22.2	20.51	20.51	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	50 U	NA	NA	NA	80	NA	NA	50 U	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-28S OU2MW-28S 11/11/2009	OU2MW-28S OU2MW-28S 12/29/2009	OU2MW-28I OU2MW-28I 9/22/2008	OU2MW-28I OU2MW-28I 12/30/2008	OU2MW-28I OU2MW-28I 3/4/2009	OU2MW-28I OU2MW-28I 4/17/2009	OU2MW-28I OU2MW-28I 5/21/2009	OU2MW-28I OU2MW-28I 6/25/2009	OU2MW-28I OU2MW-28I 7/22/2009	OU2MW-28I OU2MW-28I 8/18/2009	OU2MW-28I OU2MW-28I 9/24/2009	OU2MW-28I OU2MW-28I 10/30/2009	OU2MW-28I OU2MW-28I 11/11/2009	OU2MW-28I OU2MW-28I 12/29/2009	OU2MW-28I2 OU2MW-28I2 9/22/2008	OU2MW-28I2 OU2MW-28I2 12/30/2008	OU2MW-28I2 OU2MW-28I2 3/4/2009	OU2MW-28I2 OU2MW-28I2 4/17/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	283	132	121	NA	ND	NA	NA	1	11	NA	832	13	12	16	15	NA
Total Metals (ug/L)																			
Aluminum	NE	45.5 J	NA	58.9 J	NA	NA	NA	67.7 UJ	NA	NA	107 UJ	NA	NA	43.8 J	NA	29.8 J	NA	NA	NA
Antimony	3	2.1 U	NA	3.0 J	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA
Arsenic	25	2.3 U	NA	2.4 J	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA
Barium	1000	12.0 J	NA	78.4 J	NA	NA	NA	44.4 J	NA	NA	33.9 J	NA	NA	43.3 J	NA	17.9 J	NA	NA	NA
Beryllium	3*	0.26 U	NA	0.51 J	NA	NA	NA	0.45 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.096 U	NA	NA	NA
Cadmium	5	0.34 U	NA	0.47 J	NA	NA	NA	0.23 U	NA	NA	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA
Calcium	NE	28600	NA	35900	NA	NA	NA	25400	NA	NA	19000	NA	NA	20800	NA	16600	NA	NA	NA
Chromium	50	0.44 U	NA	1.6 J	NA	NA	NA	1.9 UJ	NA	NA	0.90 J	NA	NA	0.44 U	NA	0.81 J	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	NA	12.0 J	NA	NA	NA	1.2 J	NA	NA	0.76 U	NA	NA	1.2 U	NA	0.88 U	NA	NA	NA
Copper	200	3.6 J	NA	4.5 J	NA	NA	NA	2.4 J	NA	NA	0.90 J	NA	NA	1.4 J	NA	3.4 J	NA	NA	NA
Iron	300	48.4 J	NA	46500	NA	NA	NA	1040	NA	NA	67.3 J	NA	NA	220	NA	86.4 J	NA	NA	NA
Lead	25	1.8 U	NA	1.6 J	NA	NA	NA	4.5	NA	NA	2.1 U	NA	NA	2.8 J	NA	1.3 U	NA	NA	NA
Magnesium	35000*	4190 J	NA	6210	NA	NA	NA	4450 J	NA	NA	3100 J	NA	NA	3890 J	NA	4410 J	NA	NA	NA
Manganese	300	3.4 J	NA	6880	NA	NA	NA	1020	NA	NA	3040	NA	NA	3880	NA	4930	NA	NA	NA
Mercury	0.7	0.10 U	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA
Nickel	100	1.4 U	NA	1.4 J	NA	NA	NA	1.4 U	NA	NA	1.1 UJ	NA	NA	1.4 U	NA	1.2 U	NA	NA	NA
Potassium	NE	2490 J	NA	4080 J	NA	NA	NA	2910 J	NA	NA	3010 J	NA	NA	3800 J	NA	3010 J	NA	NA	NA
Selenium	10	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA
Silver	50	0.83 U	NA	1.9 J	NA	NA	NA	0.60 U	NA	NA	0.45 UJ	NA	NA	0.83 U	NA	1.1 J	NA	NA	NA
Sodium	20000*	8720	NA	82200	NA	NA	NA	60000	NA	NA	44000	NA	NA	49300	NA	33200	NA	NA	NA
Thallium	0.5*	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA
Vanadium	NE	1.4 U	NA	1.9 J	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA	0.74 U	NA	NA	NA
Zinc	2000*	13.0 J	NA	4.3 J	NA	NA	NA	8.9 UJ	NA	NA	8.7 UJ	NA	NA	1.1 U	NA	1.5 U	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-28S OU2MW-28S 11/11/2009	OU2MW-28S OU2MW-28S 12/29/2009	OU2MW-28I OU2MW-28I 9/22/2008	OU2MW-28I OU2MW-28I 12/30/2008	OU2MW-28I OU2MW-28I 3/4/2009	OU2MW-28I OU2MW-28I 4/17/2009	OU2MW-28I OU2MW-28I 5/21/2009	OU2MW-28I OU2MW-28I 6/25/2009	OU2MW-28I OU2MW-28I 7/22/2009	OU2MW-28I OU2MW-28I 8/18/2009	OU2MW-28I OU2MW-28I 9/24/2009	OU2MW-28I OU2MW-28I 10/30/2009	OU2MW-28I OU2MW-28I 11/11/2009	OU2MW-28I OU2MW-28I 12/29/2009	OU2MW-28I2 OU2MW-28I2 9/22/2008	OU2MW-28I2 OU2MW-28I2 12/30/2008	OU2MW-28I2 OU2MW-28I2 3/4/2009	OU2MW-28I2 OU2MW-28I2 4/17/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	1.18	0.63	0.573	0.543	0.489	0.429	0.483	NA	NA	NA	NA	NA	0.698	0.374
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	ND	13.9	15.3	27	20	30	37	NA	NA	NA	NA	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	126	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	216	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	2820	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	280	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	3100	NA	500	NA	NA	NA	290	NA	NA	100 U	NA	NA	140	NA	1000	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	280	NA	470 J	NA	NA	NA	290	NA	NA	100 U	NA	NA	140	NA	670 J	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	-155	41	100	204	292	334	160	NA	NA	NA	NA	NA	102	164
pH (S.U.)	NE	NA	NA	NA	NA	6.36	6.08	6.07	5.9	5.79	5.81	5.69	NA	NA	NA	NA	NA	5.67	6.05
Standard Plate Count (cfu/ml)	NE	520	NA	29	NA	4600	4400	11000	1300	NA	200	NA	NA	11000	NA	860	NA	2300	1200
Sulfate (ug/L)	250000	27900	NA	10300	NA	NA	NA	5000 U	NA	NA	14900	NA	NA	20000	NA	27600	NA	NA	NA
Sulfide (ug/L)	50*	2000 UJ	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	11.81	12.4	14.9	14.87	16.7	18.3	17.36	NA	NA	NA	NA	NA	11.70	12.6
Total Phosphorous (ug/L)	NE	50	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-2812 OU2MW-2812 5/21/2009	OU2MW-2812 OU2MW-2812 6/25/2009	OU2MW-2812 OU2MW-2812 7/22/2009	OU2MW-2812 OU2MW-2812 8/18/2009	OU2MW-2812 OU2MW-2812 9/24/2009	OU2MW-2812 OU2MW-2812 10/30/2009	OU2MW-2812 OU2MW-2812 11/11/2009	OU2MW-2812 OU2MW-2812 12/29/2009	OU2MW-291 OU2MW-291 9/17/2008	OU2MW-291 OU2MW-291 12/30/2008	OU2MW-291 OU2MW-291 3/4/2009	OU2MW-291 OU2MW-291 4/13/2009	OU2MW-291 OU2MW-291 5/21/2009	OU2MW-291 OU2MW-291 6/24/2009	OU2MW-291 OU2MW-291 7/22/2009	OU2MW-291 OU2MW-291 8/18/2009	OU2MW-291 OU2MW-291 9/22/2009	OU2MW-291 DUP-SP 9/22/2009	
Hexachlorocyclopentadiene	5	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Hexachloroethane	5	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Isophorone	50*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	NA	NA	NA	NA	
Methylphenol, 2-	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Methylphenol, 4-	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Nitroaniline, 2-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	
Nitroaniline, 3-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	
Nitroaniline, 4-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	
Nitrobenzene	0.4	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Nitrophenol, 2-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Nitrophenol, 4-	NE	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	
Nitrosodi-n-propylamine, N-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Nitrosodiphenylamine, N-	50*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Pentachlorophenol	1	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	
Phenol	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Trichlorobenzene, 1,2,4-	5	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,5-	NE	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,6-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	
Total SVOCs	NE	ND	NA	NA	NA	716	1712	3139	2200	532	863	1083	700	228	206	513	229	54	38	28
Total Metals (ug/L)																				
Aluminum	NE	269	NA	NA	174 UJ	NA	NA	25.7 J	NA	72.2 UJ	NA	NA	NA	29.4 UJ	NA	NA	118 UJ	NA	NA	
Antimony	3	2.7 U	NA	NA	2.5 U	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.9 UJ	NA	NA	
Arsenic	25	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA	2.5 J	NA	NA	NA	2.9 J	NA	NA	3.0 U	NA	NA	
Barium	1000	18.8 J	NA	NA	13.3 UJ	NA	NA	17.9 J	NA	32.0 J	NA	NA	NA	39.5 J	NA	NA	36.1 J	NA	NA	
Beryllium	3*	0.23 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.51 UJ	NA	NA	NA	0.17 UJ	NA	NA	0.13 U	NA	NA	
Cadmium	5	0.23 U	NA	NA	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.40 J	NA	NA	
Calcium	NE	15500	NA	NA	13300	NA	NA	16800	NA	35900	NA	NA	NA	40000	NA	NA	42200	NA	NA	
Chromium	50	2.2 UJ	NA	NA	1.3 J	NA	NA	0.63 J	NA	0.86 UJ	NA	NA	NA	0.59 UJ	NA	NA	0.80 J	NA	NA	
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	1.2 U	NA	NA	0.76 U	NA	NA	1.2 U	NA	3.6 J	NA	NA	NA	8.5 J	NA	NA	5.6 J	NA	NA	
Copper	200	3.9 J	NA	NA	1.6 J	NA	NA	1.4 J	NA	0.65 UJ	NA	NA	NA	1.2 U	NA	NA	0.80 J	NA	NA	
Iron	300	510	NA	NA	210	NA	NA	76.9 J	NA	32300	NA	NA	NA	21000	NA	NA	12300	NA	NA	
Lead	25	2.3 J	NA	NA	2.3 J	NA	NA	1.8 U	NA	2.1 J	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA	
Magnesium	35000*	3840 J	NA	NA	3720 J	NA	NA	5310	NA	4680 J	NA	NA	NA	5820	NA	NA	5400	NA	NA	
Manganese	300	4810	NA	NA	2630	NA	NA	3290	NA	705	NA	NA	NA	491	NA	NA	291	NA	NA	
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	
Nickel	100	1.5 J	NA	NA	1.0 UJ	NA	NA	1.4 U	NA	1.2 U	NA	NA	NA	4.0 J	NA	NA	3.0 UJ	NA	NA	
Potassium	NE	2500 J	NA	NA	2240 J	NA	NA	2850 J	NA	2650 J	NA	NA	NA	2500 J	NA	NA	2820 J	NA	NA	
Selenium	10	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	
Silver	50	1.2 J	NA	NA	0.50 UJ	NA	NA	0.83 U	NA	0.83 UJ	NA	NA	NA	0.60 U	NA	NA	0.33 U	NA	NA	
Sodium	20000*	28700	NA	NA	17600	NA	NA	25600	NA	39500	NA	NA	NA	50400	NA	NA	37000	NA	NA	
Thallium	0.5*	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	
Vanadium	NE	1.7 J	NA	NA	0.77 U	NA	NA	1.4 U	NA	0.77 J	NA	NA	NA	1.4 J	NA	NA	0.77 U	NA	NA	
Zinc	2000*	12.4 UJ	NA	NA	13.5 UJ	NA	NA	1.1 U	NA	5.7 J	NA	NA	NA	6.0 UJ	NA	NA	9.9 UJ	NA	NA	

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-2812 OU2MW-2812 5/21/2009	OU2MW-2812 OU2MW-2812 6/25/2009	OU2MW-2812 OU2MW-2812 7/22/2009	OU2MW-2812 OU2MW-2812 8/18/2009	OU2MW-2812 OU2MW-2812 9/24/2009	OU2MW-2812 OU2MW-2812 10/30/2009	OU2MW-2812 OU2MW-2812 11/11/2009	OU2MW-2812 OU2MW-2812 12/29/2009	OU2MW-291 OU2MW-291 9/17/2008	OU2MW-291 OU2MW-291 12/30/2008	OU2MW-291 OU2MW-291 3/4/2009	OU2MW-291 OU2MW-291 4/13/2009	OU2MW-291 OU2MW-291 5/21/2009	OU2MW-291 OU2MW-291 6/24/2009	OU2MW-291 OU2MW-291 7/22/2009	OU2MW-291 OU2MW-291 8/18/2009	OU2MW-291 OU2MW-291 9/22/2009	OU2MW-291 DUP-SP 9/22/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.346	0.289	0.258	0.282	0.356	NA	NA	NA	NA	NA	0.643	0.665	0.702	0.73	0.635	0.580	0.645	NA
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	ND	0.34	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	10.73
Nitrogen, Ammonia (ug/L)	2000	180	NA	NA	100 U	NA	NA	140	NA	417	NA	NA	NA	360	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	320 J	NA	NA	110	NA	NA	100 U	NA	100 U	NA	NA	NA	190 J	NA	NA	120	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	870	NA	NA	310	NA	NA	290	NA	700	NA	NA	NA	1400	NA	NA	120	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	550	NA	NA	200	NA	NA	290	NA	720	NA	NA	NA	1210	NA	NA	100 U	NA	NA
Oxidation Reduction Potential (mV)	NE	157	272	151	245	123	NA	NA	NA	NA	NA	-108	-88	-94	-55	-69	-18	-14	NA
pH (S.U.)	NE	5.89	5.04	6.12	5.64	6.11	NA	NA	NA	NA	NA	6.49	6.49	6.32	6.41	7.16	6.04	7.45	NA
Standard Plate Count (cfu/ml)	NE	960	540	NA	140	NA	NA	180	NA	480	NA	5000	2100	13000	14000	NA	240	NA	NA
Sulfate (ug/L)	250000	27800	NA	NA	25700	NA	NA	27100	NA	5000 U	NA	NA	NA	5000 U	NA	NA	10600	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	120 U	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA
Temperature at Analysis (deg c)	NE	12.8	15.85	17.2	17.2	15.55	NA	NA	NA	NA	NA	11.6	11.8	14	16.65	16.5	18.7	17.82	NA
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-291 OU2MW-291 10/30/2009	OU2MW-291 OU2MW-291 11/11/2009	OU2MW-291 OU2MW-291 12/29/2009	OU2MW-2912 OU2MW-2912 9/17/2008	OU2MW-2912 OU2MW-2912 12/30/2008	OU2MW-2912 OU2MW-2912 3/4/2009	OU2MW-2912 OU2MW-2912 4/13/2009	OU2MW-2912 OU2MW-2912 5/21/2009	OU2MW-2912 OU2MW-2912 6/24/2009	OU2MW-2912 OU2MW-2912 7/22/2009	OU2MW-2912 OU2MW-2912 8/18/2009	OU2MW-2912 OU2MW-2912 9/22/2009	OU2MW-2912 OU2MW-2912 10/30/2009	OU2MW-2912 DUP-SP 10/30/2009	OU2MW-2912 OU2MW-2912 11/11/2009	OU2MW-2912 OU2MW-2912 12/29/2009	OU2MW-29D OU2MW-29D 9/16/2008
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	25 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	700	370	6	3642	6159	2778	6117	4266	1015	262	988	274	81	53	1709	501	2656
Total Metals (ug/L)																		
Aluminum	NE	NA	25.2 J	NA	97.3 UJ	NA	NA	NA	36.2 UJ	NA	NA	142 UJ	NA	NA	NA	18.4 J	NA	27.0 UJ
Antimony	3	NA	2.1 U	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	NA	2.1 U	NA	2.3 U
Arsenic	25	NA	2.3 U	NA	1.8 U	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	NA	2.3 U	NA	1.8 U
Barium	1000	NA	55.4 J	NA	84.6 J	NA	NA	NA	62.1 J	NA	NA	83.1 J	NA	NA	NA	100 J	NA	23.7 J
Beryllium	3*	NA	0.26 U	NA	0.49 UJ	NA	NA	NA	0.24 UJ	NA	NA	0.13 U	NA	NA	NA	0.26 U	NA	0.37 UJ
Cadmium	5	NA	0.34 U	NA	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.26 U	NA	NA	NA	0.34 U	NA	0.35 U
Calcium	NE	NA	45400	NA	32400	NA	NA	NA	22700	NA	NA	26400	NA	NA	NA	33600	NA	11600
Chromium	50	NA	0.44 U	NA	1.4 UJ	NA	NA	NA	1.2 UJ	NA	NA	0.80 J	NA	NA	NA	0.64 J	NA	1.7 UJ
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	6.5 J	NA	13.1 J	NA	NA	NA	1.2 J	NA	NA	1.2 J	NA	NA	NA	3.3 J	NA	6.7 J
Copper	200	NA	1.5 J	NA	0.65 UJ	NA	NA	NA	2.0 J	NA	NA	1.6 J	NA	NA	NA	22.1 J	NA	0.65 UJ
Iron	300	NA	6780	NA	27600	NA	NA	NA	367	NA	NA	67.7 J	NA	NA	NA	169	NA	18900
Lead	25	NA	1.8 U	NA	1.8 J	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA	NA	1.8 U	NA	1.8 J
Magnesium	35000*	NA	5600	NA	4830 J	NA	NA	NA	3740 J	NA	NA	4130 J	NA	NA	NA	5930	NA	3910 J
Manganese	300	NA	544	NA	5940	NA	NA	NA	3990	NA	NA	6410	NA	NA	NA	6310	NA	11000
Mercury	0.7	NA	0.10 U	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	0.13 U
Nickel	100	NA	4.0 J	NA	1.2 U	NA	NA	NA	2.3 J	NA	NA	14.0 J	NA	NA	NA	43.1	NA	1.2 U
Potassium	NE	NA	3970 J	NA	3830 J	NA	NA	NA	3310 J	NA	NA	3680 J	NA	NA	NA	4260 J	NA	1760 J
Selenium	10	NA	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	5.7	NA	NA	NA	2.5 U	NA	1.9 U
Silver	50	NA	0.83 U	NA	1.5 UJ	NA	NA	NA	1.0 J	NA	NA	0.88 UJ	NA	NA	NA	0.83 U	NA	2.3 UJ
Sodium	20000*	NA	76300	NA	53300	NA	NA	NA	50800	NA	NA	65400	NA	NA	NA	71000	NA	20600
Thallium	0.5*	NA	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	NA	3.2 U	NA	1.9 U
Vanadium	NE	NA	1.4 U	NA	0.74 U	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	NA	1.4 U	NA	0.84 J
Zinc	2000*	NA	8.3 J	NA	71.5	NA	NA	NA	15.8 UJ	NA	NA	9.7 UJ	NA	NA	NA	1.1 U	NA	1.5 U

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-291 OU2MW-291 10/30/2009	OU2MW-291 OU2MW-291 11/11/2009	OU2MW-291 OU2MW-291 12/29/2009	OU2MW-2912 OU2MW-2912 9/17/2008	OU2MW-2912 OU2MW-2912 12/30/2008	OU2MW-2912 OU2MW-2912 3/4/2009	OU2MW-2912 OU2MW-2912 4/13/2009	OU2MW-2912 OU2MW-2912 5/21/2009	OU2MW-2912 OU2MW-2912 6/24/2009	OU2MW-2912 OU2MW-2912 7/22/2009	OU2MW-2912 OU2MW-2912 8/18/2009	OU2MW-2912 OU2MW-2912 9/22/2009	OU2MW-2912 OU2MW-2912 10/30/2009	OU2MW-2912 DUP-SP 10/30/2009	OU2MW-2912 OU2MW-2912 11/11/2009	OU2MW-2912 OU2MW-2912 12/29/2009	OU2MW-29D OU2MW-29D 9/16/2008	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	NA	0.402	0.446	0.511	0.463	0.569	0.606	0.723	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	NA	41	20	24	32	20	39	46	NA	NA	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	770	NA	260	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	NA	500 U	NA	100 U	NA	NA	NA	150 J	NA	NA	110	NA	NA	NA	100 U	NA	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	770	NA	600	NA	NA	NA	600	NA	NA	110	NA	NA	NA	100 U	NA	300	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	780	NA	570	NA	NA	NA	450	NA	NA	100 U	NA	NA	NA	100 U	NA	270	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	NA	86	140	102	185	371	269	202	NA	NA	NA	NA	NA	NA
pH (S.U.)	NE	NA	NA	NA	NA	NA	6.10	6.38	6.25	5.85	5.25	6.06	5.80	NA	NA	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	8700	NA	890	NA	3600	7100	13000	16000	NA	5000	NA	NA	NA	78000 J	NA	3300	NA
Sulfate (ug/L)	250000	NA	5000 U	NA	5000 U	NA	NA	NA	12800	NA	NA	33800	NA	NA	NA	55700	NA	20800	NA
Sulfide (ug/L)	50*	NA	2000 UJ	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	NA	2000 UJ	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	NA	11.8	11.4	15.9	15.21	16.2	18.3	16.53	NA	NA	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	50 U	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U	NA	50 U	NA

Appendix K
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-29D OU2MW-29D 12/30/2008	OU2MW-29D OU2MW-29D 3/4/2009	OU2MW-29D OU2MW-29D 4/13/2009	OU2MW-29D OU2MW-29D 5/21/2009	OU2MW-29D OU2MW-29D 6/24/2009	OU2MW-29D OU2MW-29D 7/22/2009	OU2MW-29D OU2MW-29D 8/21/2009	OU2MW-29D OU2MW-29D 9/24/2009	OU2MW-29D OU2MW-29D 10/30/2009	OU2MW-29D OU2MW-29D 11/11/2009	OU2MW-29D OU2MW-29D 12/29/2009	OU2MW-30S OU2MW-30S 9/18/2008	OU2MW-30S OU2MW-30S 12/29/2008	OU2MW-30S OU2MW-30S 2/18/2009	OU2MW-30S OU2MW-30S 3/3/2009	OU2MW-30S OU2MW-30S 4/15/2009	OU2MW-30S OU2MW-30S 5/21/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Hexachloroethane	5	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Isophorone	50*	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Methylphenol, 2-	1	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Methylphenol, 4-	1	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Nitroaniline, 2-	5	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Nitroaniline, 3-	5	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Nitroaniline, 4-	5	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Nitrobenzene	0.4	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Nitrophenol, 2-	NE	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Nitrophenol, 4-	NE	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Nitrosodiphenylamine, N-	50*	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Pentachlorophenol	1	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Phenol	1	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Total SVOCs	NE	2474	314	2842	27	1679	213	3341	2937	3440	2579	2890	2	1990	NA	10	NA	ND
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	40.5 UJ	NA	NA	150 UJ	NA	NA	35.1 J	NA	55.9 UJ	NA	NA	NA	NA	83.3 UJ
Antimony	3	NA	NA	NA	2.7 U	NA	NA	2.6 UJ	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA	NA	2.9 UJ
Arsenic	25	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.5 J	NA	1.8 U	NA	NA	NA	NA	2.8 U
Barium	1000	NA	NA	NA	20.6 J	NA	NA	30.9 J	NA	NA	27.5 J	NA	9.5 J	NA	NA	NA	NA	9.9 J
Beryllium	3*	NA	NA	NA	0.17 UJ	NA	NA	0.13 U	NA	NA	0.28 J	NA	0.45 UJ	NA	NA	NA	NA	0.31 UJ
Cadmium	5	NA	NA	NA	0.23 U	NA	NA	0.80 J	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	NA	0.23 U
Calcium	NE	NA	NA	NA	9820	NA	NA	15300	NA	NA	14200	NA	37700	NA	NA	NA	NA	47100
Chromium	50	NA	NA	NA	1.6 UJ	NA	NA	0.60 J	NA	NA	3.7 J	NA	0.79 UJ	NA	NA	NA	NA	0.94 UJ
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	4.7 J	NA	NA	4.3 J	NA	NA	3.2 J	NA	0.88 U	NA	NA	NA	NA	1.2 U
Copper	200	NA	NA	NA	1.2 U	NA	NA	0.62 UJ	NA	NA	1.5 J	NA	1.1 J	NA	NA	NA	NA	6.1 J
Iron	300	NA	NA	NA	20100	NA	NA	24300	NA	NA	21400	NA	65.6 J	NA	NA	NA	NA	222
Lead	25	NA	NA	NA	1.5 U	NA	NA	2.8 J	NA	NA	3.0	NA	1.5 J	NA	NA	NA	NA	1.5 U
Magnesium	35000*	NA	NA	NA	3450 J	NA	NA	5000 J	NA	NA	4830 J	NA	7050	NA	NA	NA	NA	7160
Manganese	300	NA	NA	NA	8750	NA	NA	12100	NA	NA	11200	NA	28.0	NA	NA	NA	NA	9.3 J
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA	NA	0.10 U
Nickel	100	NA	NA	NA	1.4 J	NA	NA	0.82 U	NA	NA	2.9 J	NA	1.2 U	NA	NA	NA	NA	4.2 J
Potassium	NE	NA	NA	NA	1210 J	NA	NA	1650 J	NA	NA	1860 J	NA	2390 J	NA	NA	NA	NA	2520 J
Selenium	10	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA	NA	10.8
Silver	50	NA	NA	NA	1.7 J	NA	NA	1.2 UJ	NA	NA	1.3 J	NA	0.55 UJ	NA	NA	NA	NA	0.60 U
Sodium	20000*	NA	NA	NA	21800	NA	NA	27700	NA	NA	25600	NA	17400	NA	NA	NA	NA	18100
Thallium	0.5*	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	NA	3.3 U
Vanadium	NE	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA	15.2 J	NA	NA	NA	NA	22.6 J
Zinc	2000*	NA	NA	NA	1.3 UJ	NA	NA	12.2 UJ	NA	NA	1.1 U	NA	21.7	NA	NA	NA	NA	43.0 J

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-29D OU2MW-29D 12/30/2008	OU2MW-29D OU2MW-29D 3/4/2009	OU2MW-29D OU2MW-29D 4/13/2009	OU2MW-29D OU2MW-29D 5/21/2009	OU2MW-29D OU2MW-29D 6/24/2009	OU2MW-29D OU2MW-29D 7/22/2009	OU2MW-29D OU2MW-29D 8/21/2009	OU2MW-29D OU2MW-29D 9/24/2009	OU2MW-29D OU2MW-29D 10/30/2009	OU2MW-29D OU2MW-29D 11/11/2009	OU2MW-29D OU2MW-29D 12/29/2009	OU2MW-30S OU2MW-30S 9/18/2008	OU2MW-30S OU2MW-30S 12/29/2008	OU2MW-30S OU2MW-30S 2/18/2009	OU2MW-30S OU2MW-30S 3/3/2009	OU2MW-30S OU2MW-30S 4/15/2009	OU2MW-30S OU2MW-30S 5/21/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53700	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.265	0.285	0.348	0.432	0.427	0.365	0.420	NA	NA	NA	NA	NA	NA	0.420	0.391	0.412	NA
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	22	21	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	120 J	NA	NA	100 U	NA	NA	500 U	NA	1530	NA	NA	NA	NA	4090 J	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	120	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	490	NA	NA	540	NA	NA	500 U	NA	1700	NA	NA	NA	NA	4520	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	370	NA	NA	540	NA	NA	100 U	NA	210	NA	NA	NA	NA	430	NA
Oxidation Reduction Potential (mV)	NE	NA	-83	-120	-132	-12	-105	-122	-138	NA	NA	NA	NA	NA	NA	38	169	324	NA
pH (S.U.)	NE	NA	6.31	6.6	6.49	6.95	7.87	6.62	6.38	NA	NA	NA	NA	NA	NA	5.90	6.39	5.97	NA
Standard Plate Count (cfu/ml)	NE	NA	1800	180	180	180	NA	1100	NA	NA	300	NA	3200	NA	NA	720	1200	10000	NA
Sulfate (ug/L)	250000	NA	NA	NA	16000	NA	NA	35400	NA	NA	22500	NA	24100	NA	NA	NA	NA	35800	NA
Sulfide (ug/L)	50*	NA	NA	NA	1000 U	NA	NA	120 UJ	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	11.4	12	14.9	15.6	15.9	18.5	16.67	NA	NA	NA	NA	NA	NA	10.26	11.6	14.89	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	170	NA	NA	50 U	NA	NA	160	NA	50 U	NA	NA	NA	NA	290	NA

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Table with columns: Location Code, Sample Name, Sample Date, NYS AWQS, and 20 monitoring wells (OU2MW-30S and OU2MW-30I). Rows include BTEX (ug/L) and Other VOCs (ug/L) with various chemical compounds and their concentrations (e.g., Benzene, Toluene, Ethylbenzene, etc.).



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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30S OU2MW-30S 6/23/2009	OU2MW-30S DUP-01-STP 6/23/2009	OU2MW-30S OU2MW-30S 7/23/2009	OU2MW-30S OU2MW-30S 8/17/2009	OU2MW-30S OU2MW-30S 9/22/2009	OU2MW-30S OU2MW-30S 10/30/2009	OU2MW-30S OU2MW-30S 11/11/2009	OU2MW-30S OU2MW-30S 12/28/2009	OU2MW-30I OU2MW-30I 9/19/2008	OU2MW-30I OU2MW-30I 12/29/2008	OU2MW-30I OU2MW-30I 2/18/2009	OU2MW-30I OU2MW-30I 3/4/2009	OU2MW-30I DUP-09 3/4/2009	OU2MW-30I OU2MW-30I 4/14/2009	OU2MW-30I OU2MW-30I 4/15/2009	OU2MW-30I OU2MW-30I 5/21/2009	OU2MW-30I OU2MW-30I 6/23/2009	OU2MW-30I OU2MW-30I 7/23/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	5560	7304	NA	5175	NA	2186	NA	20	21	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	91.0 UJ	NA	NA	17.7 U	NA	58.9 UJ	NA	NA	NA	NA	NA	NA	34.3 UJ	NA	NA
Antimony	3	NA	NA	NA	2.5 U	NA	NA	2.1 U	NA	2.4 UJ	NA	NA	NA	NA	NA	NA	2.7 U	NA	NA
Arsenic	25	NA	NA	NA	3.0 U	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA	NA	NA	NA	2.8 U	NA	NA
Barium	1000	NA	NA	NA	7.7 UJ	NA	NA	5.9 J	NA	31.8 J	NA	NA	NA	NA	NA	NA	43.1 J	NA	NA
Beryllium	3*	NA	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.49 UJ	NA	NA	NA	NA	NA	NA	0.16 U	NA	NA
Cadmium	5	NA	NA	NA	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	NA	NA	NA	0.23 U	NA	NA
Calcium	NE	NA	NA	NA	34700	NA	NA	29700	NA	35300	NA	NA	NA	NA	NA	NA	55000	NA	NA
Chromium	50	NA	NA	NA	1.0 J	NA	NA	0.44 U	NA	1.0 UJ	NA	NA	NA	NA	NA	NA	0.67 UJ	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	0.76 U	NA	NA	1.2 U	NA	3.2 J	NA	NA	NA	NA	NA	NA	2.7 J	NA	NA
Copper	200	NA	NA	NA	3.3 J	NA	NA	3.9 J	NA	0.65 UJ	NA	NA	NA	NA	NA	NA	4.6 J	NA	NA
Iron	300	NA	NA	NA	176	NA	NA	56.3 J	NA	10200	NA	NA	NA	NA	NA	NA	826	NA	NA
Lead	25	NA	NA	NA	2.1 U	NA	NA	1.8 U	NA	2.2 J	NA	NA	NA	NA	NA	NA	1.5 U	NA	NA
Magnesium	35000*	NA	NA	NA	4510 J	NA	NA	4620 J	NA	5590	NA	NA	NA	NA	NA	NA	9260	NA	NA
Manganese	300	NA	NA	NA	4.6 J	NA	NA	6.8 J	NA	813	NA	NA	NA	NA	NA	NA	394	NA	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA
Nickel	100	NA	NA	NA	2.8 UJ	NA	NA	2.0 J	NA	1.2 U	NA	NA	NA	NA	NA	NA	5.0 J	NA	NA
Potassium	NE	NA	NA	NA	2540 J	NA	NA	2240 J	NA	3940 J	NA	NA	NA	NA	NA	NA	3850 J	NA	NA
Selenium	10	NA	NA	NA	17.0	NA	NA	9.7	NA	1.9 U	NA	NA	NA	NA	NA	NA	2.7 U	NA	NA
Silver	50	NA	NA	NA	0.33 U	NA	NA	0.83 U	NA	0.77 UJ	NA	NA	NA	NA	NA	NA	0.60 U	NA	NA
Sodium	20000*	NA	NA	NA	7670	NA	NA	12800	NA	57100	NA	NA	NA	NA	NA	NA	67600	NA	NA
Thallium	0.5*	NA	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	NA	NA	NA	3.3 U	NA	NA
Vanadium	NE	NA	NA	NA	22.4 J	NA	NA	20.8 J	NA	0.74 U	NA	NA	NA	NA	NA	NA	1.1 J	NA	NA
Zinc	2000*	NA	NA	NA	30.2	NA	NA	15.3 J	NA	8.0 J	NA	NA	NA	NA	NA	NA	14.1 UJ	NA	NA

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Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30S OU2MW-30S 6/23/2009	OU2MW-30S DUP-01-STP 6/23/2009	OU2MW-30S OU2MW-30S 7/23/2009	OU2MW-30S OU2MW-30S 8/17/2009	OU2MW-30S OU2MW-30S 9/22/2009	OU2MW-30S OU2MW-30S 10/30/2009	OU2MW-30S OU2MW-30S 11/11/2009	OU2MW-30S OU2MW-30S 12/28/2009	OU2MW-30I OU2MW-30I 9/19/2008	OU2MW-30I OU2MW-30I 12/29/2008	OU2MW-30I OU2MW-30I 2/18/2009	OU2MW-30I OU2MW-30I 3/4/2009	OU2MW-30I DUP-09 3/4/2009	OU2MW-30I OU2MW-30I 4/14/2009	OU2MW-30I OU2MW-30I 4/15/2009	OU2MW-30I OU2MW-30I 5/21/2009	OU2MW-30I OU2MW-30I 6/23/2009	OU2MW-30I OU2MW-30I 7/23/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41800	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.278	NA	0.297	0.322	0.359	NA	NA	NA	NA	NA	NA	0.535	NA	0.589	0.596	0.718	0.53	0.633
Dissolved Oxygen (mg/L)	NE	13.65	NA	11.61	23	28	NA	NA	NA	NA	NA	NA	1	NA	25	20	18.11	10.6	16.19
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	100 U	NA	151	NA	NA	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	4880	NA	NA	1600	NA	100 U	NA	NA	NA	NA	NA	NA	110 J	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 UJ	NA	NA	100 U	NA	100 U	NA	NA	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	4880	NA	NA	1600	NA	300	NA	NA	NA	NA	NA	NA	380	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	100 U	NA	NA	100 U	NA	350	NA	NA	NA	NA	NA	NA	270	NA	NA
Oxidation Reduction Potential (mV)	NE	224	NA	177	355	196	NA	NA	NA	NA	NA	NA	-74	NA	39	41	251	102	105
pH (S.U.)	NE	5.68	NA	6.34	5.99	5.77	NA	NA	NA	NA	NA	NA	6.16	NA	6.28	6.3	6.05	5.95	6.12
Standard Plate Count (cfu/ml)	NE	2500	NA	NA	6200	NA	NA	280	NA	10000	NA	NA	240	NA	13000	NA	26000	63450 J	NA
Sulfate (ug/L)	250000	NA	NA	NA	27600	NA	NA	26300	NA	20900	NA	NA	NA	NA	NA	NA	19800	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	120 U	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	NA	NA	NA	1000 U	NA	NA
Temperature at Analysis (deg c)	NE	16.19	NA	18.2	19.9	19.56	NA	NA	NA	NA	NA	NA	12.09	NA	12.7	13.4	15.3	15.49	16.5
Total Phosphorous (ug/L)	NE	NA	NA	NA	150	NA	NA	240	NA	50 U	NA	NA	NA	NA	NA	NA	50 U	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-301 OU2MW-301 8/17/2009	OU2MW-301 OU2MW-301 9/21/2009	OU2MW-301 OU2MW-301 10/30/2009	OU2MW-301 OU2MW-301 11/11/2009	OU2MW-301 OU2MW-301 12/28/2009	OU2MW-301 OU2MW-301 9/18/2008	OU2MW-3012 DUP-01 9/18/2008	OU2MW-30D2 OU2MW-30D2 9/19/2008	OU2MW-3012 OU2MW-3012 12/29/2008	OU2MW-30D2 OU2MW-30D2 12/29/2008	OU2MW-3012 OU2MW-3012 2/18/2009	OU2MW-30D2 OU2MW-30D2 2/18/2009	OU2MW-3012 OU2MW-3012 3/3/2009	OU2MW-30D2 OU2MW-30D2 3/5/2009	OU2MW-3012 OU2MW-3012 4/14/2009	OU2MW-3012 DUP-01 4/14/2009	OU2MW-30D2 OU2MW-30D2 4/15/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	37	33	26	201	6	6605	4870	2638	5671	4689	NA	NA	6025	4735	4696	4568	2274
Total Metals (ug/L)																		
Aluminum	NE	125 UJ	NA	NA	17.7 U	NA	34.4 UJ	NA	110 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	2.5 U	NA	NA	2.1 U	NA	2.3 U	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	3.0 U	NA	NA	2.3 U	NA	1.8 U	NA	1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	38.2 J	NA	NA	37.3 J	NA	50.3 J	NA	20.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	0.13 U	NA	NA	0.26 U	NA	0.46 UJ	NA	0.47 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	53200	NA	NA	47300	NA	43300	NA	11200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	0.70 J	NA	NA	0.97 J	NA	0.89 UJ	NA	3.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	2.7 J	NA	NA	3.5 J	NA	3.3 J	NA	7.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	22.3 J	NA	NA	24.1 J	NA	0.65 UJ	NA	0.65 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	930	NA	NA	179	NA	4790	NA	4490	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	2.1 U	NA	NA	1.8 U	NA	1.3 U	NA	1.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	6830	NA	NA	6310	NA	6620	NA	3140 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	821	NA	NA	775	NA	1300	NA	15300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	20.0 J	NA	NA	26.2 J	NA	1.2 U	NA	4.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	4070 J	NA	NA	4050 J	NA	4520 J	NA	3880 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	0.33 U	NA	NA	0.83 U	NA	0.79 UJ	NA	2.6 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	57400	NA	NA	52600	NA	60500	NA	42100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	0.77 U	NA	NA	1.4 U	NA	0.74 U	NA	0.74 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	13.2 UJ	NA	NA	6.4 J	NA	7.1 J	NA	1.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-301 OU2MW-301 8/17/2009	OU2MW-301 OU2MW-301 9/21/2009	OU2MW-301 OU2MW-301 10/30/2009	OU2MW-301 OU2MW-301 11/11/2009	OU2MW-301 OU2MW-301 12/28/2009	OU2MW-301 OU2MW-301 9/18/2008	OU2MW-3012 DUP-01 9/18/2008	OU2MW-30D2 OU2MW-30D2 9/19/2008	OU2MW-3012 OU2MW-3012 12/29/2008	OU2MW-30D2 OU2MW-30D2 12/29/2008	OU2MW-3012 OU2MW-3012 2/18/2009	OU2MW-30D2 OU2MW-30D2 2/18/2009	OU2MW-3012 OU2MW-3012 3/3/2009	OU2MW-30D2 OU2MW-30D2 3/5/2009	OU2MW-3012 OU2MW-3012 4/14/2009	OU2MW-3012 DUP-01 4/14/2009	OU2MW-30D2 OU2MW-30D2 4/15/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44900	53700	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.702	0.709	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.457	0.607	0.429	NA	NA	0.451
Dissolved Oxygen (mg/L)	NE	27	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1	ND	42	NA	NA	29
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	100 U	NA	257	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	100 U	NA	100 U	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 UJ	NA	NA	100 U	NA	100 U	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	410	NA	NA	100 U	NA	500	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	410	NA	NA	100 U	NA	530	NA	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	214	107	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-21	-35	160	NA	109
pH (S.U.)	NE	5.97	6.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.04	5.67	6.37	NA	NA	5.82
Standard Plate Count (cfu/ml)	NE	81250 J	NA	NA	21000	NA	540	NA	101200 J	NA	NA	NA	NA	960	3000	16000	NA	NA	100500 J
Sulfate (ug/L)	250000	29700	NA	NA	49800	NA	23200	NA	36700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	120 U	NA	NA	2000 UJ	NA	1000 U	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	18.3	15.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.70	11.87	12.6	NA	NA	12.8
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	50 U	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30I2 OU2MW-30I2 5/21/2009	OU2MW-30D2 OU2MW-30D2 5/21/2009	OU2MW-30D2 OU2MW-30D2 6/23/2009	OU2MW-30I2 OU2MW-30I2 6/24/2009	OU2MW-30I2 OU2MW-30I2 7/21/2009	OU2MW-30D2 OU2MW-30D2 7/21/2009	OU2MW-30I2 OU2MW-30I2 8/17/2009	OU2MW-30D2 OU2MW-30D2 8/17/2009	OU2MW-30I2 OU2MW-30I2 9/21/2009	OU2MW-30D2 OU2MW-30D2 9/21/2009	OU2MW-30I2 OU2MW-30I2 10/30/2009	OU2MW-30D2 OU2MW-30D2 10/30/2009	OU2MW-30I2 OU2MW-30I2 11/11/2009	OU2MW-30D2 OU2MW-30D2 11/11/2009	OU2MW-30I2 OU2MW-30I2 12/28/2009	OU2MW-30D2 OU2MW-30D2 12/28/2009
Hexachlorocyclopentadiene	5	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	25 U	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	1720	91	12	356	513	NA	388	182	195	15	34	31	303	720	76	2904
Total Metals (ug/L)																	
Aluminum	NE	46.8 UJ	37.5 UJ	NA	NA	NA	NA	106 UJ	159 UJ	NA	NA	NA	NA	40.3 J	34.0 J	NA	NA
Antimony	3	2.7 U	2.7 U	NA	NA	NA	NA	3.1 UJ	4.0 UJ	NA	NA	NA	NA	2.1 U	2.1 U	NA	NA
Arsenic	25	2.8 U	2.8 U	NA	NA	NA	NA	3.0 U	3.0 U	NA	NA	NA	NA	2.3 U	2.3 U	NA	NA
Barium	1000	33.2 J	40.1 J	NA	NA	NA	NA	42.3 J	27.2 J	NA	NA	NA	NA	40.8 J	23.7 J	NA	NA
Beryllium	3*	0.20 UJ	0.22 UJ	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	0.26 U	0.26 U	NA	NA
Cadmium	5	0.23 U	0.31 UJ	NA	NA	NA	NA	0.26 U	0.50 J	NA	NA	NA	NA	0.34 U	0.94 J	NA	NA
Calcium	NE	30100	10800	NA	NA	NA	NA	44500	11600	NA	NA	NA	NA	38900	9670	NA	NA
Chromium	50	0.79 UJ	2.6 UJ	NA	NA	NA	NA	0.80 J	0.49 U	NA	NA	NA	NA	0.44 U	2.8 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	20.1 J	NA	NA	NA	NA	1.0 J	10.8 J	NA	NA	NA	NA	1.2 J	9.5 J	NA	NA
Copper	200	2.1 J	2.3 J	NA	NA	NA	NA	6.6 J	2.0 J	NA	NA	NA	NA	12.4 J	7.5 J	NA	NA
Iron	300	84.4 J	218	NA	NA	NA	NA	32.0 UJ	351	NA	NA	NA	NA	72.2 J	5510	NA	NA
Lead	25	1.5 U	2.6 J	NA	NA	NA	NA	2.1 U	3.3	NA	NA	NA	NA	1.8 U	3.8	NA	NA
Magnesium	35000*	5470	3790 J	NA	NA	NA	NA	6880	3530 J	NA	NA	NA	NA	6030	3350 J	NA	NA
Manganese	300	567	18500	NA	NA	NA	NA	987	17100	NA	NA	NA	NA	1180	17000	NA	NA
Mercury	0.7	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	0.10 U	NA	NA
Nickel	100	2.9 J	9.2 J	NA	NA	NA	NA	17.9 J	8.3 J	NA	NA	NA	NA	21.1 J	9.5 J	NA	NA
Potassium	NE	2700 J	2230 J	NA	NA	NA	NA	3150 J	2090 J	NA	NA	NA	NA	3460 J	2010 J	NA	NA
Selenium	10	2.7 U	2.7 U	NA	NA	NA	NA	4.6 U	5.6	NA	NA	NA	NA	2.5 U	2.5 U	NA	NA
Silver	50	0.60 U	3.5 J	NA	NA	NA	NA	0.33 U	1.7 UJ	NA	NA	NA	NA	0.83 U	1.5 J	NA	NA
Sodium	20000*	57700	54200	NA	NA	NA	NA	61800	45300	NA	NA	NA	NA	60300	38600	NA	NA
Thallium	0.5*	3.3 U	3.3 U	NA	NA	NA	NA	3.9 U	3.9 U	NA	NA	NA	NA	3.2 U	3.2 U	NA	NA
Vanadium	NE	0.97 U	0.97 U	NA	NA	NA	NA	0.77 U	0.77 U	NA	NA	NA	NA	1.4 U	1.4 U	NA	NA
Zinc	2000*	6.8 UJ	2.2 UJ	NA	NA	NA	NA	10.2 UJ	11.6 UJ	NA	NA	NA	NA	3.1 J	96.1	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30I2 OU2MW-30I2 5/21/2009	OU2MW-30D2 OU2MW-30D2 5/21/2009	OU2MW-30D2 OU2MW-30D2 6/23/2009	OU2MW-30I2 OU2MW-30I2 6/24/2009	OU2MW-30I2 OU2MW-30I2 7/21/2009	OU2MW-30D2 OU2MW-30D2 7/21/2009	OU2MW-30I2 OU2MW-30I2 8/17/2009	OU2MW-30D2 OU2MW-30D2 8/17/2009	OU2MW-30I2 OU2MW-30I2 9/21/2009	OU2MW-30D2 OU2MW-30D2 9/21/2009	OU2MW-30I2 OU2MW-30I2 10/30/2009	OU2MW-30D2 OU2MW-30D2 10/30/2009	OU2MW-30I2 OU2MW-30I2 11/11/2009	OU2MW-30D2 OU2MW-30D2 11/11/2009	OU2MW-30I2 OU2MW-30I2 12/28/2009	OU2MW-30D2 OU2MW-30D2 12/28/2009	
Cyanides (ug/L)																		
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																		
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.538	0.388	0.525	0.565	0.595	0.433	0.710	0.444	0.661	0.432	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	45	17.59	9.06	23	19.76	2.99	25	ND	29	2.54	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	100	100 U	NA	NA	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	180 J	NA	NA	NA	NA	100	110	NA	NA	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	100 U	NA	NA	NA	NA	100 UJ	100 UJ	NA	NA	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	410	450	NA	NA	NA	NA	350	470	NA	NA	NA	NA	100 U	100	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	410	270	NA	NA	NA	NA	250	360	NA	NA	NA	NA	100 U	100	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	320	147	204	202	197	65	276	82	123	61	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NE	5.8	5.66	4.85	5.78	6.21	5.86	5.9	5.88	6.00	5.52	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	145000 J	105000 J	135350 J	66950 J	NA	NA	23000	18000	NA	NA	NA	NA	9400	101200 J	NA	NA	NA
Sulfate (ug/L)	250000	21200	26500	NA	NA	NA	NA	43000	31900	NA	NA	NA	NA	55500	28300	NA	NA	NA
Sulfide (ug/L)	50*	1000 U	1000 U	NA	NA	NA	NA	120 U	120 U	NA	NA	NA	NA	2000 UJ	2000 UJ	NA	NA	NA
Temperature at Analysis (deg c)	NE	16.4	15.14	14.51	15.4	15.9	15.5	18.3	18.7	16.10	15.21	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	50 U	50 U	NA	NA	NA	NA	50 U	50 U	NA	NA	NA	NA	50 U	50 U	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30I3 OU2MW-30I3 9/18/2008	OU2MW-30I3 OU2MW-30I3 12/29/2008	OU2MW-30I3 OU2MW-30I3 2/18/2009	OU2MW-30I3 OU2MW-30I3 3/5/2009	OU2MW-30I3 OU2MW-30I3 4/15/2009	OU2MW-30I3 OU2MW-30I3 5/21/2009	OU2MW-30I3 OU2MW-30I3 6/23/2009	OU2MW-30I3 OU2MW-30I3 7/23/2009	OU2MW-30I3 OU2MW-30I3 8/17/2009	OU2MW-30I3 OU2MW-30I3 9/22/2009	OU2MW-30I3 OU2MW-30I3 10/30/2009	OU2MW-30I3 OU2MW-30I3 11/11/2009	OU2MW-30I3 OU2MW-30I3 12/28/2009	OU2MW-30D OU2MW-30D 9/19/2008	OU2MW-30D OU2MW-30D 12/29/2008	OU2MW-30D OU2MW-30D 2/18/2009	OU2MW-30D OU2MW-30D 3/4/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	93	5101	NA	5562	5586	1060	24	23	101	94	59	10	80	1087	5989	NA	1652
Total Metals (ug/L)																		
Aluminum	NE	95.6 UJ	NA	NA	NA	NA	40.2 UJ	NA	NA	101 UJ	NA	NA	18.0 J	NA	46.1 UJ	NA	NA	NA
Antimony	3	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA
Arsenic	25	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA
Barium	1000	32.3 J	NA	NA	NA	NA	38.4 J	NA	NA	35.2 J	NA	NA	29.1 J	NA	35.6 J	NA	NA	NA
Beryllium	3*	0.44 UJ	NA	NA	NA	NA	0.20 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.46 UJ	NA	NA	NA
Cadmium	5	0.35 U	NA	NA	NA	NA	0.23 U	NA	NA	0.70 J	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA
Calcium	NE	13700	NA	NA	NA	NA	18700	NA	NA	22100	NA	NA	24900	NA	22800	NA	NA	NA
Chromium	50	1.7 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	0.80 J	NA	NA	0.72 J	NA	1.0 UJ	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.1 J	NA	NA	NA	NA	1.8 J	NA	NA	1.9 J	NA	NA	1.6 J	NA	3.3 J	NA	NA	NA
Copper	200	0.65 UJ	NA	NA	NA	NA	1.2 J	NA	NA	0.62 UJ	NA	NA	2.2 J	NA	0.65 UJ	NA	NA	NA
Iron	300	228	NA	NA	NA	NA	144	NA	NA	286	NA	NA	424	NA	71.9 J	NA	NA	NA
Lead	25	1.3 J	NA	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA	3.7	NA	1.3 U	NA	NA	NA
Magnesium	35000*	2200 J	NA	NA	NA	NA	3480 J	NA	NA	3580 J	NA	NA	4420 J	NA	5360	NA	NA	NA
Manganese	300	3060	NA	NA	NA	NA	4530	NA	NA	5110	NA	NA	5570	NA	4710	NA	NA	NA
Mercury	0.7	0.13 U	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA
Nickel	100	1.2 U	NA	NA	NA	NA	1.4 U	NA	NA	2.8 UJ	NA	NA	2.4 J	NA	4.4 J	NA	NA	NA
Potassium	NE	4150 J	NA	NA	NA	NA	3930 J	NA	NA	3390 J	NA	NA	4050 J	NA	4370 J	NA	NA	NA
Selenium	10	1.9 U	NA	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA
Silver	50	0.77 UJ	NA	NA	NA	NA	0.94 J	NA	NA	0.79 UJ	NA	NA	0.83 U	NA	1.5 UJ	NA	NA	NA
Sodium	20000*	78600	NA	NA	NA	NA	79500	NA	NA	63300	NA	NA	53600	NA	64600	NA	NA	NA
Thallium	0.5*	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA
Vanadium	NE	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA	0.74 U	NA	NA	NA
Zinc	2000*	8.4 J	NA	NA	NA	NA	1.6 UJ	NA	NA	12.3 UJ	NA	NA	15.5 J	NA	2.2 J	NA	NA	NA

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Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30I3 OU2MW-30I3 9/18/2008	OU2MW-30I3 OU2MW-30I3 12/29/2008	OU2MW-30I3 OU2MW-30I3 2/18/2009	OU2MW-30I3 OU2MW-30I3 3/5/2009	OU2MW-30I3 OU2MW-30I3 4/15/2009	OU2MW-30I3 OU2MW-30I3 5/21/2009	OU2MW-30I3 OU2MW-30I3 6/23/2009	OU2MW-30I3 OU2MW-30I3 7/23/2009	OU2MW-30I3 OU2MW-30I3 8/17/2009	OU2MW-30I3 OU2MW-30I3 9/22/2009	OU2MW-30I3 OU2MW-30I3 10/30/2009	OU2MW-30I3 OU2MW-30I3 11/11/2009	OU2MW-30I3 OU2MW-30I3 12/28/2009	OU2MW-30D OU2MW-30D 9/19/2008	OU2MW-30D OU2MW-30D 12/29/2008	OU2MW-30D OU2MW-30D 2/18/2009	OU2MW-30D OU2MW-30D 3/4/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	63400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62500	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	0.730	0.595	0.474	0.616	0.507	0.587	0.609	NA	NA	NA	NA	NA	NA	NA	0.661
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	15.8	37	29	20	20	25	35	NA	NA	NA	NA	NA	NA	NA	2.1
Nitrogen, Ammonia (ug/L)	2000	356	NA	NA	NA	NA	310	NA	NA	270	NA	NA	210	NA	604	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	NA	NA	110 J	NA	NA	110	NA	NA	300	NA	100 U	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	100 U	NA	NA	100 UJ	NA	NA	100 U	NA	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	800	NA	NA	NA	NA	990	NA	NA	430	NA	NA	1330	NA	1000	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	860	NA	NA	NA	NA	880	NA	NA	320	NA	NA	1030	NA	960	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	77	188	131	243	161	297	132	NA	NA	NA	NA	NA	NA	NA	85
pH (S.U.)	NE	NA	NA	NA	5.72	6.14	6.1	5.01	6.00	5.70	5.56	NA	NA	NA	NA	NA	NA	NA	5.59
Standard Plate Count (cfu/ml)	NE	2100	NA	NA	18000	3800	18000	67700 J	NA	62700 J	NA	NA	162500 J	NA	14000	NA	NA	NA	13000
Sulfate (ug/L)	250000	22500	NA	NA	NA	NA	23200	NA	NA	42900	NA	NA	46300	NA	27500	NA	NA	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	12.12	12.2	15.83	14.36	16.9	17.3	18.09	NA	NA	NA	NA	NA	NA	NA	11.90
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA	NA

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Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30D OU2MW-30D 4/14/2009	OU2MW-30D OU2MW-30D 5/21/2009	OU2MW-30D OU2MW-30D 6/24/2009	OU2MW-30D OU2MW-30D 7/21/2009	OU2MW-30D DUP-SP 7/21/2009	OU2MW-30D OU2MW-30D 8/19/2009	OU2MW-30D OU2MW-30D 9/21/2009	OU2MW-30D OU2MW-30D 10/30/2009	OU2MW-30D OU2MW-30D 11/11/2009	OU2MW-30D DUP-07 Q4 11/11/2009	OU2MW-30D OU2MW-30D 12/28/2009	OU2MW-311 OU2MW-311 9/15/2008	OU2MW-311 OU2MW-311 12/29/2008	OU2MW-311 OU2MW-311 3/3/2009	OU2MW-311 OU2MW-311 4/13/2009	OU2MW-311 OU2MW-311 5/21/2009	OU2MW-311 OU2MW-311 6/23/2009	OU2MW-311 OU2MW-311 7/21/2009
Hexachlorocyclopentadiene	5	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Hexachloroethane	5	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Isophorone	50*	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Methylphenol, 2-	1	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Methylphenol, 4-	1	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitroaniline, 2-	5	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitroaniline, 3-	5	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitroaniline, 4-	5	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitrobenzene	0.4	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrophenol, 2-	NE	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrophenol, 4-	NE	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Nitrosodiphenylamine, N-	50*	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Pentachlorophenol	1	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Phenol	1	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA
Total SVOCs	NE	4681	1866	2151	38	45	93	84	70	581	159	586	212	488	79	137	36	4	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	44.0 UJ	NA	NA	NA	133 UJ	NA	NA	19.2 J	NA	NA	42.5 UJ	NA	NA	NA	33.5 UJ	NA	NA
Antimony	3	NA	2.7 U	NA	NA	NA	2.5 U	NA	NA	2.1 U	NA	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA
Arsenic	25	NA	2.8 U	NA	NA	NA	3.0 U	NA	NA	2.3 U	NA	NA	2.8 J	NA	NA	NA	2.8 U	NA	NA
Barium	1000	NA	38.4 J	NA	NA	NA	35.4 J	NA	NA	39.2 J	NA	NA	39.4 J	NA	NA	NA	41.1 J	NA	NA
Beryllium	3*	NA	0.17 UJ	NA	NA	NA	0.13 U	NA	NA	0.26 U	NA	NA	0.93 UJ	NA	NA	NA	0.17 UJ	NA	NA
Cadmium	5	NA	0.23 U	NA	NA	NA	0.26 U	NA	NA	0.34 U	NA	NA	0.44 J	NA	NA	NA	0.23 U	NA	NA
Calcium	NE	NA	16800	NA	NA	NA	15600	NA	NA	20300	NA	NA	40800	NA	NA	NA	53600	NA	NA
Chromium	50	NA	0.82 UJ	NA	NA	NA	0.70 J	NA	NA	0.44 U	NA	NA	1.3 UJ	NA	NA	NA	1.0 UJ	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	2.3 J	NA	NA	NA	2.6 J	NA	NA	2.5 J	NA	NA	1.6 J	NA	NA	NA	6.3 J	NA	NA
Copper	200	NA	1.8 J	NA	NA	NA	1.0 J	NA	NA	1.2 J	NA	NA	0.65 UJ	NA	NA	NA	4.2 J	NA	NA
Iron	300	NA	53.3 J	NA	NA	NA	66.3 J	NA	NA	406	NA	NA	34600	NA	NA	NA	550	NA	NA
Lead	25	NA	1.5 U	NA	NA	NA	2.1 U	NA	NA	1.8 U	NA	NA	1.9 J	NA	NA	NA	1.5 U	NA	NA
Magnesium	35000*	NA	4060 J	NA	NA	NA	3350 J	NA	NA	4840 J	NA	NA	5260	NA	NA	NA	7530	NA	NA
Manganese	300	NA	3090	NA	NA	NA	2810	NA	NA	3230	NA	NA	1660	NA	NA	NA	1560	NA	NA
Mercury	0.7	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA
Nickel	100	NA	3.7 J	NA	NA	NA	5.1 UJ	NA	NA	5.0 J	NA	NA	1.2 U	NA	NA	NA	10.8 J	NA	NA
Potassium	NE	NA	4390 J	NA	NA	NA	3910 J	NA	NA	5110	NA	NA	5790	NA	NA	NA	4460 J	NA	NA
Selenium	10	NA	2.7 U	NA	NA	NA	4.6 U	NA	NA	2.5 U	NA	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA
Silver	50	NA	0.71 J	NA	NA	NA	0.44 UJ	NA	NA	0.83 U	NA	NA	1.3 UJ	NA	NA	NA	0.64 J	NA	NA
Sodium	20000*	NA	81200	NA	NA	NA	73000	NA	NA	72400	NA	NA	58700	NA	NA	NA	45100	NA	NA
Thallium	0.5*	NA	3.3 U	NA	NA	NA	3.9 U	NA	NA	3.2 U	NA	NA	4.0 J	NA	NA	NA	3.3 U	NA	NA
Vanadium	NE	NA	0.97 U	NA	NA	NA	0.77 U	NA	NA	1.4 U	NA	NA	2.2 J	NA	NA	NA	0.97 U	NA	NA
Zinc	2000*	NA	14.0 UJ	NA	NA	NA	8.9 UJ	NA	NA	5.6 J	NA	NA	4.1 J	NA	NA	NA	7.5 UJ	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-30D OU2MW-30D 4/14/2009	OU2MW-30D OU2MW-30D 5/21/2009	OU2MW-30D OU2MW-30D 6/24/2009	OU2MW-30D OU2MW-30D 7/21/2009	OU2MW-30D DUP-SP 7/21/2009	OU2MW-30D OU2MW-30D 8/19/2009	OU2MW-30D OU2MW-30D 9/21/2009	OU2MW-30D OU2MW-30D 10/30/2009	OU2MW-30D OU2MW-30D 11/11/2009	OU2MW-30D DUP-07 Q4 11/11/2009	OU2MW-30D OU2MW-30D 12/28/2009	OU2MW-31I OU2MW-31I 9/15/2008	OU2MW-31I OU2MW-31I 12/29/2008	OU2MW-31I OU2MW-31I 3/3/2009	OU2MW-31I OU2MW-31I 4/13/2009	OU2MW-31I OU2MW-31I 5/21/2009	OU2MW-31I OU2MW-31I 6/23/2009	OU2MW-31I OU2MW-31I 7/21/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.59	0.477	0.748	0.536	NA	0.609	0.681	NA	NA	NA	NA	0.598	0.530	0.594	0.441	0.615	0.730	
Dissolved Oxygen (mg/L)	NE	32	20	27	19.51	NA	29	40	NA	NA	NA	NA	ND	7	9.1	10.17	17.56	26	
Nitrogen, Ammonia (ug/L)	2000	NA	510	NA	NA	NA	290	NA	NA	100 U	NA	NA	446	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	120 J	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	1170	NA	NA	NA	860	NA	NA	150	NA	NA	1000	NA	NA	NA	440	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	1170	NA	NA	NA	860	NA	NA	150	NA	NA	980	NA	NA	NA	320	NA	NA
Oxidation Reduction Potential (mV)	NE	191	170	348	202	NA	352	210	NA	NA	NA	NA	NA	-134	-39	11	88	236	213
pH (S.U.)	NE	6.1	6.04	4.72	5.93	NA	5.63	5.57	NA	NA	NA	NA	NA	9.22	6.16	6.06	6.17	5.01	6.10
Standard Plate Count (cfu/ml)	NE	13000	16000	107600 J	NA	NA	15000	NA	NA	106900 J	NA	NA	100	NA	13000	13000	102000 J	64150 J	NA
Sulfate (ug/L)	250000	NA	27900	NA	NA	NA	42300	NA	NA	43900	NA	NA	9910	NA	NA	NA	9280	NA	NA
Sulfide (ug/L)	50*	NA	1000 U	NA	NA	NA	120 U	NA	NA	2000 UJ	NA	NA	1000 U	NA	NA	NA	1000 U	NA	NA
Temperature at Analysis (deg c)	NE	12.5	15.21	15.98	16.0	NA	17.5	15.64	NA	NA	NA	NA	NA	14.4	11.7	13.1	15.25	15.43	15.9
Total Phosphorous (ug/L)	NE	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U	NA	NA

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Table with columns for Location Code, Sample Name, Sample Date, and 18 monitoring wells (OU2MW-311, OU2MW-312, etc.). Rows include BTEX (ug/L) and Other VOCs (ug/L) with various chemical names and their concentrations.



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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-311 OU2MW-311 8/19/2009	OU2MW-311 OU2MW-311 9/24/2009	OU2MW-311 OU2MW-311 10/30/2009	OU2MW-311 OU2MW-311 11/11/2009	OU2MW-311 OU2MW-311 12/29/2009	OU2MW-312 OU2MW-312 9/15/2008	OU2MW-312 OU2MW-312 12/29/2008	OU2MW-312 OU2MW-312 3/3/2009	OU2MW-312 OU2MW-312 4/14/2009	OU2MW-312 OU2MW-312 5/21/2009	OU2MW-312 OU2MW-312 6/23/2009	OU2MW-312 OU2MW-312 7/21/2009	OU2MW-312 OU2MW-312 8/19/2009	OU2MW-312 OU2MW-312 9/24/2009	OU2MW-312 OU2MW-312 10/30/2009	OU2MW-312 OU2MW-312 11/11/2009	OU2MW-312 OU2MW-312 12/29/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	7	4	717	184	NA	1	6	NA	431	841	645	207	100	21	178	NA	1
Total Metals (ug/L)																		
Aluminum	NE	117 UJ	NA	NA	17.7 U	NA	29.2 UJ	NA	NA	NA	48.1 UJ	NA	NA	124 UJ	NA	NA	17.7 U	NA
Antimony	3	3.1 UJ	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.1 U	NA
Arsenic	25	3.0 U	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA
Barium	1000	31.5 J	NA	NA	40.4 J	NA	38.4 J	NA	NA	NA	101 J	NA	NA	58.2 J	NA	NA	63.8 J	NA
Beryllium	3*	0.13 U	NA	NA	0.26 U	NA	0.42 UJ	NA	NA	NA	0.19 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA
Cadmium	5	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	1.3 UJ	NA	NA	0.50 J	NA	NA	0.34 U	NA
Calcium	NE	36400	NA	NA	48200	NA	14300	NA	NA	NA	25700	NA	NA	26800	NA	NA	31000	NA
Chromium	50	0.70 J	NA	NA	0.44 U	NA	1.0 UJ	NA	NA	NA	1.1 UJ	NA	NA	1.7 J	NA	NA	0.44 U	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	2.0 J	NA	NA	17.8 J	NA	13.3 J	NA	NA	NA	4.9 J	NA	NA	2.7 J	NA	NA	1.5 J	NA
Copper	200	4.2 J	NA	NA	4.3 J	NA	0.65 UJ	NA	NA	NA	2.6 J	NA	NA	2.6 J	NA	NA	2.6 J	NA
Iron	300	954	NA	NA	2640	NA	14900	NA	NA	NA	265	NA	NA	123	NA	NA	1290	NA
Lead	25	2.1 U	NA	NA	1.8 U	NA	1.4 J	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA	1.8 U	NA
Magnesium	35000*	4350 J	NA	NA	5910	NA	4460 J	NA	NA	NA	8210	NA	NA	6090	NA	NA	4150 J	NA
Manganese	300	390	NA	NA	1340	NA	2940	NA	NA	NA	3340	NA	NA	3130	NA	NA	2800	NA
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA
Nickel	100	3.8 UJ	NA	NA	6.7 J	NA	1.2 U	NA	NA	NA	2.0 J	NA	NA	1.8 UJ	NA	NA	1.4 U	NA
Potassium	NE	4440 J	NA	NA	5750	NA	3260 J	NA	NA	NA	4590 J	NA	NA	3800 J	NA	NA	4900 J	NA
Selenium	10	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA
Silver	50	0.33 U	NA	NA	0.83 U	NA	1.1 UJ	NA	NA	NA	0.86 J	NA	NA	0.33 U	NA	NA	0.83 U	NA
Sodium	20000*	56300	NA	NA	54600	NA	26300	NA	NA	NA	83300	NA	NA	63600	NA	NA	61400	NA
Thallium	0.5*	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA
Vanadium	NE	0.77 U	NA	NA	1.4 U	NA	0.74 U	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA
Zinc	2000*	9.1 UJ	NA	NA	69.4	NA	13.0 J	NA	NA	NA	9.5 UJ	NA	NA	8.3 UJ	NA	NA	3.7 J	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-311 8/19/2009	OU2MW-311 9/24/2009	OU2MW-311 10/30/2009	OU2MW-311 11/11/2009	OU2MW-311 12/29/2009	OU2MW-312 9/15/2008	OU2MW-312 12/29/2008	OU2MW-312 3/3/2009	OU2MW-312 4/14/2009	OU2MW-312 5/21/2009	OU2MW-312 6/23/2009	OU2MW-312 7/21/2009	OU2MW-312 8/19/2009	OU2MW-312 9/24/2009	OU2MW-312 10/30/2009	OU2MW-312 11/11/2009	OU2MW-312 12/29/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.596	0.496	NA	NA	NA	NA	0.324	0.390	0.63	0.702	0.461	0.483	0.599	0.574	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	36	22	NA	NA	NA	NA	ND	24	24	22	ND	27	23	35	28	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	320	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	310	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	110 J	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	700	NA	NA	780	NA	200	NA	NA	NA	110	NA	NA	470	NA	NA	NA	630	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	700	NA	NA	780	NA	160	NA	NA	NA	100 U	NA	NA	470	NA	NA	NA	630	NA
Oxidation Reduction Potential (mV)	NE	354	141	NA	NA	NA	NA	-13	85	229	339	215	240	363	185	NA	NA	NA	NA
pH (S.U.)	NE	6.08	6.30	NA	NA	NA	NA	7.9	5.69	5.73	5.39	5.3	5.98	5.84	6.05	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	260	NA	NA	27000	NA	1300	NA	1600	520	1600	1800	NA	340	NA	NA	NA	112600 J	NA
Sulfate (ug/L)	250000	8610	NA	NA	24500	NA	17500	NA	NA	NA	27400	NA	NA	11600	NA	NA	NA	17900	NA
Sulfide (ug/L)	50*	120 U	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	NA	2000 UJ	NA
Temperature at Analysis (deg c)	NE	18.1	18.25	NA	NA	NA	NA	14.4	13.3	12.9	16.19	15.7	15.7	17.1	18.00	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32S OU2MW-32S 9/22/2008	OU2MW-32S OU2MW-32S 12/30/2008	OU2MW-32S DUP 12/30/2008	OU2MW-32S OU2MW-32S 3/5/2009	OU2MW-32S OU2MW-32S 3/13/2009	OU2MW-32S OU2MW-32S 4/16/2009	OU2MW-32S OU2MW-32S 5/21/2009	OU2MW-32S OU2MW-32S 6/23/2009	OU2MW-32S OU2MW-32S 7/23/2009	OU2MW-32S OU2MW-32S 8/21/2009	OU2MW-32S OU2MW-32S 9/23/2009	OU2MW-32S OU2MW-32S 10/30/2009	OU2MW-32S OU2MW-32S 11/11/2009	OU2MW-32S OU2MW-32S 12/29/2009	OU2MW-32I OU2MW-32I 9/22/2008	OU2MW-32I OU2MW-32I 12/30/2008	OU2MW-32I OU2MW-32I 3/5/2009	OU2MW-32I OU2MW-32I 4/16/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	63	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	4029	3970	2818	4029
Total Metals (ug/L)																			
Aluminum	NE	8.7 U	NA	NA	NA	NA	NA	30.0 UJ	NA	NA	130 UJ	NA	NA	39.8 J	NA	15.5 J	NA	NA	NA
Antimony	3	2.3 U	NA	NA	NA	NA	NA	2.7 U	NA	NA	2.7 UJ	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA
Arsenic	25	1.8 U	NA	NA	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA	5.5 J	NA	NA	NA
Barium	1000	5.9 J	NA	NA	NA	NA	NA	22.8 J	NA	NA	27.2 J	NA	NA	15.1 J	NA	24.7 J	NA	NA	NA
Beryllium	3*	0.096 U	NA	NA	NA	NA	NA	0.19 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.096 U	NA	NA	NA
Cadmium	5	0.35 U	NA	NA	NA	NA	NA	0.23 U	NA	NA	0.26 U	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA
Calcium	NE	14500	NA	NA	NA	NA	NA	25800	NA	NA	37400	NA	NA	21700	NA	46700	NA	NA	NA
Chromium	50	0.41 U	NA	NA	NA	NA	NA	0.67 UJ	NA	NA	0.90 J	NA	NA	0.44 U	NA	0.41 U	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	0.88 U	NA	NA	NA	NA	NA	1.2 U	NA	NA	0.76 U	NA	NA	1.2 U	NA	0.88 U	NA	NA	NA
Copper	200	1.8 J	NA	NA	NA	NA	NA	1.7 J	NA	NA	1.2 J	NA	NA	1.9 J	NA	3.2 J	NA	NA	NA
Iron	300	33.9 J	NA	NA	NA	NA	NA	36.9 UJ	NA	NA	70.8 J	NA	NA	36.4 J	NA	32400	NA	NA	NA
Lead	25	1.3 U	NA	NA	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA	1.8 U	NA	2.2 J	NA	NA	NA
Magnesium	35000*	2390 J	NA	NA	NA	NA	NA	4930 J	NA	NA	5830	NA	NA	4010 J	NA	5730	NA	NA	NA
Manganese	300	20.2	NA	NA	NA	NA	NA	20.9	NA	NA	37.0	NA	NA	11.9 J	NA	485	NA	NA	NA
Mercury	0.7	0.13 U	NA	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA
Nickel	100	1.2 U	NA	NA	NA	NA	NA	1.4 U	NA	NA	1.3 UJ	NA	NA	1.4 U	NA	1.2 U	NA	NA	NA
Potassium	NE	1530 J	NA	NA	NA	NA	NA	2440 J	NA	NA	3050 J	NA	NA	3080 J	NA	5030	NA	NA	NA
Selenium	10	1.9 U	NA	NA	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA
Silver	50	0.54 U	NA	NA	NA	NA	NA	0.60 U	NA	NA	0.38 UJ	NA	NA	0.83 U	NA	0.54 U	NA	NA	NA
Sodium	20000*	15000	NA	NA	NA	NA	NA	79800	NA	NA	61200	NA	NA	58200	NA	31000	NA	NA	NA
Thallium	0.5*	1.9 U	NA	NA	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA
Vanadium	NE	0.74 U	NA	NA	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA	0.79 J	NA	NA	NA
Zinc	2000*	8.2 J	NA	NA	NA	NA	NA	24.7 J	NA	NA	11.7 UJ	NA	NA	5.2 J	NA	3.1 J	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32S OU2MW-32S 9/22/2008	OU2MW-32S OU2MW-32S 12/30/2008	OU2MW-32S DUP 12/30/2008	OU2MW-32S OU2MW-32S 3/5/2009	OU2MW-32S OU2MW-32S 3/13/2009	OU2MW-32S OU2MW-32S 4/16/2009	OU2MW-32S OU2MW-32S 5/21/2009	OU2MW-32S OU2MW-32S 6/23/2009	OU2MW-32S OU2MW-32S 7/23/2009	OU2MW-32S OU2MW-32S 8/21/2009	OU2MW-32S OU2MW-32S 9/23/2009	OU2MW-32S OU2MW-32S 10/30/2009	OU2MW-32S OU2MW-32S 11/11/2009	OU2MW-32S OU2MW-32S 12/29/2009	OU2MW-32I OU2MW-32I 9/22/2008	OU2MW-32I OU2MW-32I 12/30/2008	OU2MW-32I OU2MW-32I 3/5/2009	OU2MW-32I OU2MW-32I 4/16/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.323	NA	0.503	1.37	0.455	0.605	0.519	0.809	0.555	0.808	NA	NA	NA	NA	0.580	0.607	0.718
Dissolved Oxygen (mg/L)	NE	NA	ND	NA	2.6	4.18	ND	ND	1.6	0.41	3.2	6.41	NA	NA	NA	NA	NA	ND	ND
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	568	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	1050	NA	NA	NA	NA	NA	380 J	NA	NA	1210	NA	NA	1090	NA	100 U	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	1300	NA	NA	NA	NA	NA	380	NA	NA	1580	NA	NA	1330	NA	1300	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	280 J	NA	NA	NA	NA	NA	100 U	NA	NA	370	NA	NA	240	NA	1320 J	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	124	NA	73	209	130	151	125	90	72	129	NA	NA	NA	NA	-130	-102	-135
pH (S.U.)	NE	NA	5.75	NA	5.83	5.30	6.28	6.05	6.01	4.57	6.20	6.05	NA	NA	NA	NA	9.14	6.38	6.79
Standard Plate Count (cfu/ml)	NE	170	NA	NA	69	NA	99	24	4800	NA	160	NA	NA	24	NA	77	NA	70	160
Sulfate (ug/L)	250000	7690	NA	NA	NA	NA	NA	12400	NA	NA	5700	NA	NA	11000	NA	5000 U	NA	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	NA	1000 U	NA	NA	120 UJ	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	10.7	NA	4.7	7.82	12	15.49	18.2	20.3	23.7	19.38	NA	NA	NA	NA	12.7	7.4	12.6
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-321 OU2MW-321 5/21/2009	OU2MW-321 OU2MW-321 6/23/2009	OU2MW-321 OU2MW-321 7/23/2009	OU2MW-321 OU2MW-321 8/21/2009	OU2MW-321 OU2MW-321 9/23/2009	OU2MW-321 OU2MW-321 10/30/2009	OU2MW-321 OU2MW-321 11/11/2009	OU2MW-321 OU2MW-321 12/29/2009	OU2MW-321 OU2MW-321 9/23/2008	OU2MW-321 OU2MW-321 12/30/2008	OU2MW-321 OU2MW-321 3/4/2009	OU2MW-321 OU2MW-321 4/16/2009	OU2MW-321 OU2MW-321 5/21/2009	OU2MW-321 OU2MW-321 6/23/2009	OU2MW-321 OU2MW-321 7/23/2009	OU2MW-321 OU2MW-321 8/19/2009	OU2MW-321 DUP-01SP 8/19/2009	OU2MW-321 OU2MW-321 9/23/2009
Hexachlorocyclopentadiene	5	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Hexachloroethane	5	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Isophorone	50*	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Methylphenol, 2-	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Methylphenol, 4-	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitrobenzene	0.4	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Pentachlorophenol	1	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Phenol	1	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA
Total SVOCs	NE	6709	7796	3865	3954	4621	762	770	2814	5230	3459	1164	286	361	408	107	289	289	94
Total Metals (ug/L)																			
Aluminum	NE	29.6 UJ	NA	NA	99.9 UJ	NA	NA	17.7 U	NA	8.7 U	NA	NA	NA	96.0 J	NA	NA	96.1 UJ	NA	NA
Antimony	3	2.7 U	NA	NA	3.5 UJ	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA	2.7 U	NA	NA	3.0 UJ	NA	NA
Arsenic	25	2.8 U	NA	NA	3.0 U	NA	NA	4.4 J	NA	1.8 U	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA
Barium	1000	25.7 J	NA	NA	24.9 J	NA	NA	20.6 J	NA	69.4 J	NA	NA	NA	42.1 J	NA	NA	38.6 J	NA	NA
Beryllium	3*	0.21 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA	0.096 U	NA	NA	NA	0.20 UJ	NA	NA	0.13 U	NA	NA
Cadmium	5	0.23 U	NA	NA	1.3 J	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.80 J	NA	NA
Calcium	NE	54300	NA	NA	47300	NA	NA	32800	NA	65000	NA	NA	NA	31500	NA	NA	30500	NA	NA
Chromium	50	0.44 U	NA	NA	0.49 U	NA	NA	0.44 J	NA	0.41 U	NA	NA	NA	1.3 UJ	NA	NA	0.50 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	NA	NA	0.76 U	NA	NA	1.2 U	NA	20.5 J	NA	NA	NA	12.1 J	NA	NA	11.2 J	NA	NA
Copper	200	1.2 U	NA	NA	0.62 UJ	NA	NA	1.2 J	NA	3.3 J	NA	NA	NA	1.2 U	NA	NA	0.62 UJ	NA	NA
Iron	300	47500	NA	NA	38800	NA	NA	28900	NA	32500	NA	NA	NA	21100	NA	NA	17800	NA	NA
Lead	25	1.5 U	NA	NA	2.1 U	NA	NA	1.8 U	NA	1.3 U	NA	NA	NA	1.5 U	NA	NA	2.1 U	NA	NA
Magnesium	35000*	7760	NA	NA	5800	NA	NA	4580 J	NA	7260	NA	NA	NA	3430 J	NA	NA	3020 J	NA	NA
Manganese	300	667	NA	NA	545	NA	NA	454	NA	1480	NA	NA	NA	754	NA	NA	824	NA	NA
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	0.13 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA
Nickel	100	1.4 U	NA	NA	0.82 U	NA	NA	1.4 U	NA	1.2 U	NA	NA	NA	1.4 U	NA	NA	0.82 U	NA	NA
Potassium	NE	3780 J	NA	NA	4000 J	NA	NA	3840 J	NA	5210	NA	NA	NA	3240 J	NA	NA	3170 J	NA	NA
Selenium	10	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA
Silver	50	0.60 U	NA	NA	0.33 U	NA	NA	0.83 U	NA	0.54 U	NA	NA	NA	0.60 U	NA	NA	0.52 UJ	NA	NA
Sodium	20000*	32800	NA	NA	43900	NA	NA	55500	NA	37700	NA	NA	NA	55000	NA	NA	48600	NA	NA
Thallium	0.5*	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA
Vanadium	NE	1.7 J	NA	NA	0.77 U	NA	NA	1.4 U	NA	0.87 J	NA	NA	NA	1.0 J	NA	NA	0.77 U	NA	NA
Zinc	2000*	9.9 UJ	NA	NA	27.8	NA	NA	5.3 J	NA	5.5 J	NA	NA	NA	12.2 UJ	NA	NA	10.0 UJ	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-321 OU2MW-321 5/21/2009	OU2MW-321 OU2MW-321 6/23/2009	OU2MW-321 OU2MW-321 7/23/2009	OU2MW-321 OU2MW-321 8/21/2009	OU2MW-321 OU2MW-321 9/23/2009	OU2MW-321 OU2MW-321 10/30/2009	OU2MW-321 OU2MW-321 11/11/2009	OU2MW-321 OU2MW-321 12/29/2009	OU2MW-3212 OU2MW-3212 9/23/2008	OU2MW-3212 OU2MW-3212 12/30/2008	OU2MW-3212 OU2MW-3212 3/4/2009	OU2MW-3212 OU2MW-3212 4/16/2009	OU2MW-3212 OU2MW-3212 5/21/2009	OU2MW-3212 OU2MW-3212 6/23/2009	OU2MW-3212 OU2MW-3212 7/23/2009	OU2MW-3212 OU2MW-3212 8/19/2009	OU2MW-3212 DUP-01SP 8/19/2009	OU2MW-3212 OU2MW-3212 9/23/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.67	0.717	0.679	0.569	0.649	NA	NA	NA	NA	0.623	0.534	0.558	0.459	0.593	0.583	0.592	NA	0.491
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	5.37	ND	ND	0.1	NA	ND
Nitrogen, Ammonia (ug/L)	2000	520	NA	NA	350	NA	NA	100 U	NA	582	NA	NA	NA	150	NA	NA	170	NA	NA
Nitrogen, Nitrate (ug/L)	10000	190 J	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	140 J	NA	NA	580	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	NA	100 U	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	2290	NA	NA	1120	NA	NA	170	NA	1300	NA	NA	NA	650	NA	NA	1020	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	2100	NA	NA	1120	NA	NA	170	NA	1280 J	NA	NA	NA	510	NA	NA	440	NA	NA
Oxidation Reduction Potential (mV)	NE	-116	-132	-143	-156	-124	NA	NA	NA	NA	-118	-109	-118	-112	-118	-116	-124	NA	-138
pH (S.U.)	NE	7.17	7.36	5.8	6.86	6.47	NA	NA	NA	NA	9.14	6.69	6.82	6.84	7.17	7.17	6.63	NA	6.47
Standard Plate Count (cfu/ml)	NE	35	280	NA	240	NA	NA	880	NA	26	NA	2300	230	180	26	NA	26	NA	NA
Sulfate (ug/L)	250000	5000 U	NA	NA	5000 U	NA	NA	11300	NA	6540	NA	NA	NA	14600	NA	NA	14900	NA	NA
Sulfide (ug/L)	50*	1000 U	NA	NA	120 UJ	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA
Temperature at Analysis (deg c)	NE	14.28	17.12	18.9	22.1	17.20	NA	NA	NA	NA	11.8	10	12.2	14.75	15.68	19.1	20.5	NA	16.64
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	NA	50 U	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32I2 OU2MW-32I2 10/30/2009	OU2MW-32I2 OU2MW-32I2 11/11/2009	OU2MW-32I2 DUP-SP 11/11/2009	OU2MW-32I2 OU2MW-32I2 12/29/2009	OU2MW-32D OU2MW-32D 9/23/2008	OU2MW-32D DUP-13 9/23/2008	OU2MW-32D OU2MW-32D 12/30/2008	OU2MW-32D OU2MW-32D 3/4/2009	OU2MW-32D OU2MW-32D 4/16/2009	OU2MW-32D OU2MW-32D 5/21/2009	OU2MW-32D OU2MW-32D 6/23/2009	OU2MW-32D OU2MW-32D 7/23/2009	OU2MW-32D OU2MW-32D 8/19/2009	OU2MW-32D OU2MW-32D 9/23/2009	OU2MW-32D OU2MW-32D 10/30/2009	OU2MW-32D OU2MW-32D 11/11/2009	OU2MW-32D OU2MW-32D 12/29/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	60	51	747	39	29	17	1336	189	10	ND	32	22	22	10	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	17.7 U	NA	NA	8.7 U	NA	NA	NA	NA	26.4 UJ	NA	NA	104 UJ	NA	NA	17.7 U	NA
Antimony	3	NA	2.1 U	NA	NA	2.4 J	NA	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.1 U	NA
Arsenic	25	NA	2.3 U	NA	NA	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	3.0 U	NA	NA	2.3 U	NA
Barium	1000	NA	34.8 J	NA	NA	19.1 J	NA	NA	NA	NA	30.3 J	NA	NA	36.7 J	NA	NA	37.2 J	NA
Beryllium	3*	NA	0.26 U	NA	NA	0.096 U	NA	NA	NA	NA	0.24 UJ	NA	NA	0.13 U	NA	NA	0.26 U	NA
Cadmium	5	NA	0.34 U	NA	NA	0.35 U	NA	NA	NA	NA	0.23 U	NA	NA	0.40 J	NA	NA	0.34 U	NA
Calcium	NE	NA	22200	NA	NA	18100	NA	NA	NA	NA	19400	NA	NA	19800	NA	NA	22300	NA
Chromium	50	NA	0.44 U	NA	NA	0.55 J	NA	NA	NA	NA	0.81 UJ	NA	NA	0.90 J	NA	NA	0.44 U	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	12.4 J	NA	NA	5.3 J	NA	NA	NA	NA	12.4 J	NA	NA	12.3 J	NA	NA	6.9 J	NA
Copper	200	NA	0.83 U	NA	NA	1.5 J	NA	NA	NA	NA	2.4 J	NA	NA	0.62 UJ	NA	NA	0.83 U	NA
Iron	300	NA	20200	NA	NA	708	NA	NA	NA	NA	2540	NA	NA	1610	NA	NA	20.3 UJ	NA
Lead	25	NA	1.8 U	NA	NA	1.3 U	NA	NA	NA	NA	1.5 J	NA	NA	2.1 U	NA	NA	1.8 U	NA
Magnesium	35000*	NA	2720 J	NA	NA	2180 J	NA	NA	NA	NA	2620 J	NA	NA	2340 J	NA	NA	2960 J	NA
Manganese	300	NA	1200	NA	NA	1320	NA	NA	NA	NA	2060	NA	NA	2010	NA	NA	2580	NA
Mercury	0.7	NA	0.10 U	NA	NA	0.13 U	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA
Nickel	100	NA	1.4 U	NA	NA	1.7 J	NA	NA	NA	NA	3.3 J	NA	NA	3.6 UJ	NA	NA	4.0 J	NA
Potassium	NE	NA	3200 J	NA	NA	2410 J	NA	NA	NA	NA	2530 J	NA	NA	2920 J	NA	NA	3260 J	NA
Selenium	10	NA	2.5 U	NA	NA	1.9 U	NA	NA	NA	NA	2.7 U	NA	NA	4.6 U	NA	NA	2.5 U	NA
Silver	50	NA	0.83 U	NA	NA	0.54 U	NA	NA	NA	NA	0.75 J	NA	NA	0.36 UJ	NA	NA	0.83 U	NA
Sodium	20000*	NA	39700	NA	NA	18500	NA	NA	NA	NA	30000	NA	NA	35000	NA	NA	31700	NA
Thallium	0.5*	NA	3.2 U	NA	NA	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	3.9 U	NA	NA	3.2 U	NA
Vanadium	NE	NA	1.4 U	NA	NA	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	0.77 U	NA	NA	1.4 U	NA
Zinc	2000*	NA	3.2 J	NA	NA	11.8 J	NA	NA	NA	NA	114 J	NA	NA	15.9 J	NA	NA	8.8 J	NA

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 Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32I2 OU2MW-32I2 10/30/2009	OU2MW-32I2 OU2MW-32I2 11/11/2009	OU2MW-32I2 DUP-SP 11/11/2009	OU2MW-32I2 OU2MW-32I2 12/29/2009	OU2MW-32D OU2MW-32D 9/23/2008	OU2MW-32D DUP-13 9/23/2008	OU2MW-32D OU2MW-32D 12/30/2008	OU2MW-32D OU2MW-32D 3/4/2009	OU2MW-32D OU2MW-32D 4/16/2009	OU2MW-32D OU2MW-32D 5/21/2009	OU2MW-32D OU2MW-32D 6/23/2009	OU2MW-32D OU2MW-32D 7/23/2009	OU2MW-32D OU2MW-32D 8/19/2009	OU2MW-32D OU2MW-32D 9/23/2009	OU2MW-32D OU2MW-32D 10/30/2009	OU2MW-32D OU2MW-32D 11/11/2009	OU2MW-32D OU2MW-32D 12/29/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	NA	NA	0.428	0.308	0.358	0.261	0.254	0.377	0.384	0.443	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND	6.91	ND	ND	ND	0.38	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	100 U	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	100 U	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	1490	NA	NA	2980	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	100 U	NA	NA	400	NA	NA	NA	NA	570	NA	NA	2050	NA	NA	2980	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	100 U	NA	NA	390 J	NA	NA	NA	NA	570	NA	NA	560	NA	NA	100 U	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	NA	NA	-3	7	-11	2	12	46	41	144	NA	NA	NA	NA
pH (S.U.)	NE	NA	NA	NA	NA	NA	NA	7.52	6.13	6.26	6.29	5.93	5.96	6.00	5.69	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	69	NA	NA	1100	NA	NA	300	42	58	20	NA	10	NA	NA	13	NA	NA
Sulfate (ug/L)	250000	NA	16300	NA	NA	15500	NA	NA	NA	NA	15700	NA	NA	25600	NA	NA	26000	NA	NA
Sulfide (ug/L)	50*	NA	2000 UJ	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	120 U	NA	NA	2000 UJ	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	NA	NA	12.1	8.7	12.1	16.36	16.59	18.9	19.8	16.32	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	50 U	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32D DUP-SP 12/29/2009	OU2MW-33S OU2MW-33S 2/17/2009	OU2MW-33S OU2MW-33S 6/25/2009	OU2MW-33S OU2MW-33S 8/13/2009	OU2MW-33S OU2MW-33S 11/11/2009	OU2MW-33I OU2MW-33I 2/17/2009	OU2MW-33I DUP-05 2/17/2009	OU2MW-33I OU2MW-33I 6/25/2009	OU2MW-33I OU2MW-33I 8/13/2009	OU2MW-33I OU2MW-33I 11/11/2009	OU2MW-33I2 OU2MW-33I2 2/17/2009	OU2MW-33I2 OU2MW-33I2 6/25/2009	OU2MW-33I2 OU2MW-33I2 8/13/2009	OU2MW-33I2 OU2MW-33I2 11/11/2009	OU2MW-33D OU2MW-33D 2/17/2009	OU2MW-33D OU2MW-33D 6/25/2009	OU2MW-33D OU2MW-33D 8/13/2009	OU2MW-33D OU2MW-33D 11/11/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	565	NA	158	39	66	104	14	4	679	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-32D DUP-SP 12/29/2009	OU2MW-33S OU2MW-33S 2/17/2009	OU2MW-33S OU2MW-33S 6/25/2009	OU2MW-33S OU2MW-33S 8/13/2009	OU2MW-33S OU2MW-33S 11/11/2009	OU2MW-33I OU2MW-33I 2/17/2009	OU2MW-33I DUP-05 2/17/2009	OU2MW-33I OU2MW-33I 6/25/2009	OU2MW-33I OU2MW-33I 8/13/2009	OU2MW-33I OU2MW-33I 11/11/2009	OU2MW-33I2 OU2MW-33I2 2/17/2009	OU2MW-33I2 OU2MW-33I2 6/25/2009	OU2MW-33I2 OU2MW-33I2 8/13/2009	OU2MW-33I2 OU2MW-33I2 11/11/2009	OU2MW-33D OU2MW-33D 2/17/2009	OU2MW-33D OU2MW-33D 6/25/2009	OU2MW-33D OU2MW-33D 8/13/2009	OU2MW-33D OU2MW-33D 11/11/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.614	0.582	0.437	NA	0.667	NA	0.617	0.514	NA	0.412	0.398	0.781	NA	0.125	0.14	0.130	NA
Dissolved Oxygen (mg/L)	NE	NA	1.3	ND	18.64	NA	ND	NA	ND	ND	NA	ND	ND	2.64	NA	ND	ND	ND	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	102	263	86	NA	-152	NA	-111	-112	NA	77	114	42	NA	-15	4	-7	NA
pH (S.U.)	NE	NA	6.04	5.75	6.31	NA	6.27	NA	6.6	6.61	NA	5.44	5.6	5.88	NA	5.81	6.05	6.08	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	12.42	17.1	18.22	NA	14.89	NA	15.34	16.0	NA	13.99	15.79	16.31	NA	13.30	15.4	16.4	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-34I OU2MW-34I 2/13/2009	OU2MW-34I OU2MW-34I 6/3/2009	OU2MW-34I OU2MW-34I 9/4/2009	OU2MW-34I OU2MW-34I 11/23/2009	OU2MW-34I2 OU2MW-34I2 2/13/2009	OU2MW-34I2 OU2MW-34I2 6/3/2009	OU2MW-34I2 OU2MW-34I2 9/4/2009	OU2MW-34I2 OU2MW-34I2 11/23/2009	OU2MW-34S OU2MW-34S 2/13/2009	OU2MW-34S OU2MW-34S 6/3/2009	OU2MW-34S OU2MW-34S 9/4/2009	OU2MW-34S OU2MW-34S 11/23/2009	OU2MW-35D OU2MW-35D 1/6/2009	OU2MW-35D OU2MW-35D 3/23/2009	OU2MW-35D OU2MW-35D 4/17/2009	OU2MW-35D OU2MW-35D 5/12/2009	OU2MW-35D OU2MW-35D 6/17/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	257	333	153	280	3	NA	NA	11	NA	NA	NA	NA	4	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81.6 UJ	NA	NA	NA	9.2 UJ
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	2.7 U
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3 UJ	NA	NA	NA	2.8 U
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52.6 J	NA	NA	NA	51.9 J
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29 UJ	NA	NA	NA	0.16 U
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.35 U	NA	NA	NA	0.23 U
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21900	NA	NA	NA	15600
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2 UJ	NA	NA	NA	0.88 J
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.8 J	NA	NA	NA	2.6 J
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.66 J	NA	NA	NA	2.6 J
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19000	NA	NA	NA	10400
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	1.5 U
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8420	NA	NA	NA	6630
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	903	NA	NA	NA	603
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9 J	NA	NA	NA	3.8 J
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800 J	NA	NA	NA	1930 J
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	2.7 U
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54 U	NA	NA	NA	0.60 U
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41800	NA	NA	NA	47100
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6 UJ	NA	NA	NA	3.3 U
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.74 U	NA	NA	NA	0.97 U
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.5 J	NA	NA	NA	17.4 J

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-34I OU2MW-34I 2/13/2009	OU2MW-34I OU2MW-34I 6/3/2009	OU2MW-34I OU2MW-34I 9/4/2009	OU2MW-34I OU2MW-34I 11/23/2009	OU2MW-34I2 OU2MW-34I2 2/13/2009	OU2MW-34I2 OU2MW-34I2 6/3/2009	OU2MW-34I2 OU2MW-34I2 9/4/2009	OU2MW-34I2 OU2MW-34I2 11/23/2009	OU2MW-34S OU2MW-34S 2/13/2009	OU2MW-34S OU2MW-34S 6/3/2009	OU2MW-34S OU2MW-34S 9/4/2009	OU2MW-34S OU2MW-34S 11/23/2009	OU2MW-35D OU2MW-35D 1/6/2009	OU2MW-35D OU2MW-35D 3/23/2009	OU2MW-35D OU2MW-35D 4/17/2009	OU2MW-35D OU2MW-35D 5/12/2009	OU2MW-35D OU2MW-35D 6/17/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60700 J	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.503	0.57	1.06	NA	0.520	0.585	0.438	NA	0.173	0.231	0.292	NA	NA	0.313	0.414	0.466	0.32	
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	NA	ND	ND	ND	NA	3.4	ND	0.65	NA	NA	ND	ND	ND	9.21	
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 UJ	NA	NA	NA	100 U	
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NA	NA	NA	110	
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 J	NA	NA	NA	110	
Oxidation Reduction Potential (mV)	NE	-57	-58	-83	NA	70	175	132	NA	47	170	103	NA	NA	40	53	101	94	
pH (S.U.)	NE	6.46	6.85	6.55	NA	5.48	5.57	5.66	NA	6.12	6.12	6.24	NA	NA	5.69	5.57	6.01	5.67	
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1100	NA	1500	1100	250	
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	192000	NA	NA	NA	141000	
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 U	
Temperature at Analysis (deg c)	NE	14.2	14.73	16.27	NA	13.8	14.77	16.30	NA	12.5	15.32	19.25	NA	NA	12.11	15.58	13.23	13.3	
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	NA	NA	NA	50 U	

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	OU2MW-35I	
		7/9/2009	8/12/2009	9/16/2009	9/17/2009	10/20/2009	11/17/2009	12/8/2009	1/8/2009	3/18/2009	4/16/2009	5/11/2009	6/16/2009	7/9/2009	8/12/2009	9/16/2009	10/14/2009	11/17/2009	12/8/2009	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	2270	250	3	8	6	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	38.2 UJ	NA	NA	NA	99.4 UJ	31.9 UJ	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	82.6 UJ	
Antimony	3	NA	NA	2.1 U	NA	NA	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	
Arsenic	25	NA	NA	2.3 U	NA	NA	NA	2.3 U	3.7 UJ	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	
Barium	1000	NA	NA	85.1 J	NA	NA	NA	69.2 J	27.4 J	NA	NA	NA	32.0 J	NA	NA	26.4 J	NA	NA	32.4 J	
Beryllium	3*	NA	NA	0.26 U	NA	NA	NA	0.26 U	0.27 UJ	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	0.26 U	
Cadmium	5	NA	NA	0.34 U	NA	NA	NA	0.34 U	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	
Calcium	NE	NA	NA	18000	NA	NA	NA	14600	51700	NA	NA	NA	86000	NA	NA	46400	NA	NA	54900	
Chromium	50	NA	NA	0.92 J	NA	NA	NA	0.47 J	0.79 J	NA	NA	NA	0.56 J	NA	NA	0.44 U	NA	NA	0.44 UJ	
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NA	NA	3.0 J	NA	NA	NA	2.8 J	7.0 J	NA	NA	NA	1.2 U	NA	NA	1.5 J	NA	NA	2.0 J	
Copper	200	NA	NA	2.7 J	NA	NA	NA	3.1 J	2.4 J	NA	NA	NA	8.8 J	NA	NA	12.2 J	NA	NA	13.3 J	
Iron	300	NA	NA	1370	NA	NA	NA	170	11400	NA	NA	NA	32.5 UJ	NA	NA	146	NA	NA	245	
Lead	25	NA	NA	1.8 U	NA	NA	NA	1.8 U	1.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	1.8 U	
Magnesium	35000*	NA	NA	7740	NA	NA	NA	5970	14100	NA	NA	NA	9050	NA	NA	6780	NA	NA	7730	
Manganese	300	NA	NA	724	NA	NA	NA	543	1730	NA	NA	NA	186	NA	NA	223	NA	NA	1320	
Mercury	0.7	NA	NA	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	
Nickel	100	NA	NA	4.5 J	NA	NA	NA	3.6 J	4.1 J	NA	NA	NA	4.2 J	NA	NA	2.3 J	NA	NA	2.6 J	
Potassium	NE	NA	NA	2490 J	NA	NA	NA	2230 J	4610 J	NA	NA	NA	6430	NA	NA	5530	NA	NA	5710	
Selenium	10	NA	NA	2.5 U	NA	NA	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	
Silver	50	NA	NA	0.83 U	NA	NA	NA	0.97 UJ	1.1 J	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	
Sodium	20000*	NA	NA	50100	NA	NA	NA	40700	40200	NA	NA	NA	42500	NA	NA	59700	NA	NA	69500	
Thallium	0.5*	NA	NA	3.2 U	NA	NA	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	
Vanadium	NE	NA	NA	1.4 U	NA	NA	NA	1.4 U	0.87 J	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	
Zinc	2000*	NA	NA	24.5	NA	NA	NA	54.5	69.5 J	NA	NA	NA	9.7 UJ	NA	NA	23.5	NA	NA	63.7	

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-35D OU2MW-35D 7/9/2009	OU2MW-35D OU2MW-35D 8/12/2009	OU2MW-35D OU2MW-35D 9/16/2009	OU2MW-35D OU2MW-35D 9/17/2009	OU2MW-35D OU2MW-35D 10/20/2009	OU2MW-35D OU2MW-35D 11/17/2009	OU2MW-35D OU2MW-35D 12/8/2009	OU2MW-35I OU2MW-35I 1/8/2009	OU2MW-35I OU2MW-35I 3/18/2009	OU2MW-35I OU2MW-35I 4/16/2009	OU2MW-35I OU2MW-35I 5/11/2009	OU2MW-35I OU2MW-35I 6/16/2009	OU2MW-35I OU2MW-35I 7/9/2009	OU2MW-35I OU2MW-35I 8/12/2009	OU2MW-35I OU2MW-35I 9/16/2009	OU2MW-35I OU2MW-35I 10/14/2009	OU2MW-35I OU2MW-35I 11/17/2009	OU2MW-35I OU2MW-35I 12/8/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	106000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.403	0.522	0.554	0.549	NA	NA	NA	NA	0.593	0.755	0.691	0.793	0.608	0.442	0.753	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	20	30	33	20	NA	NA	NA	NA	ND	ND	20	27	42	33	36	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	140	NA	NA	NA	120	360	NA	NA	NA	230	NA	NA	150	NA	NA	100 U
Nitrogen, Nitrate (ug/L)	10000	NA	NA	100 U	NA	NA	NA	780	100 U	NA	NA	NA	100 U	NA	NA	990	NA	NA	100 U
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	270	NA	NA	NA	970	990	NA	NA	NA	830	NA	NA	1620	NA	NA	420
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	270	NA	NA	NA	190	990	NA	NA	NA	830	NA	NA	640	NA	NA	420
Oxidation Reduction Potential (mV)	NE	285	285	244	235	NA	NA	NA	NA	-103	-60	197	306	328	124	203	NA	NA	NA
pH (S.U.)	NE	4.99	4.71	4.47	4.60	NA	NA	NA	NA	6.71	6.55	6.54	6.02	6.18	6.30	6.10	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	87	NA	NA	NA	460	220	NA	12000	12000	340	NA	NA	32	NA	NA	290
Sulfate (ug/L)	250000	NA	NA	156000	NA	NA	NA	117000	16400	NA	NA	NA	23400	NA	NA	35900	NA	NA	45100
Sulfide (ug/L)	50*	NA	NA	2000 UJ	NA	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ
Temperature at Analysis (deg c)	NE	13.94	15.2	14.63	14.64	NA	NA	NA	NA	12.38	12.65	13.45	13.56	13.90	15.67	14.58	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	50 U	NA	NA	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3512 OU2MW-3512 1/8/2009	OU2MW-3512 OU2MW-3512 3/18/2009	OU2MW-3512 OU2MW-3512 4/16/2009	OU2MW-3512 OU2MW-3512 5/12/2009	OU2MW-3512 DUP-01 33 5/12/2009	OU2MW-3512 OU2MW-3512 6/16/2009	OU2MW-3512 OU2MW-3512 7/9/2009	OU2MW-3512 OU2MW-3512 8/12/2009	OU2MW-3512 OU2MW-3512 9/16/2009	OU2MW-3512 OU2MW-3512 10/21/2009	OU2MW-3512 OU2MW-3512 11/17/2009	OU2MW-3512 OU2MW-3512 12/8/2009	OU2MW-35S OU2MW-35S 12/30/2008	OU2MW-35S OU2MW-35S 3/23/2009	OU2MW-35S OU2MW-35S 4/16/2009	OU2MW-35S OU2MW-35S 5/11/2009	OU2MW-35S OU2MW-35S 6/17/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	NA	3	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	91.2 UJ	NA	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	51.7 UJ	49.4 UJ	NA	NA	NA	9.2 UJ
Antimony	3	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U
Arsenic	25	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	2.5 UJ	NA	NA	NA	2.8 U
Barium	1000	44.5 J	NA	NA	NA	NA	41.6 J	NA	NA	19.2 J	NA	NA	16.8 J	9.4 J	NA	NA	NA	17.2 J
Beryllium	3*	0.19 UJ	NA	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	0.26 U	0.33 UJ	NA	NA	NA	0.16 U
Cadmium	5	0.57 J	NA	NA	NA	NA	0.29 UJ	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	0.23 U
Calcium	NE	17600	NA	NA	NA	NA	16300	NA	NA	9930	NA	NA	9630	30200	NA	NA	NA	49700
Chromium	50	1.0 J	NA	NA	NA	NA	1.1 J	NA	NA	0.59 J	NA	NA	0.44 UJ	0.65 UJ	NA	NA	NA	0.44 U
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	23.3 J	NA	NA	NA	NA	16.4 J	NA	NA	11.6 J	NA	NA	9.4 J	1.5 J	NA	NA	NA	1.2 U
Copper	200	1.2 J	NA	NA	NA	NA	1.6 J	NA	NA	0.83 U	NA	NA	1.2 J	1.4 J	NA	NA	NA	3.0 J
Iron	300	197	NA	NA	NA	NA	16.5 UJ	NA	NA	21.7 UJ	NA	NA	56.1 J	1190	NA	NA	NA	298
Lead	25	1.7 J	NA	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	1.8 U	1.3 UJ	NA	NA	NA	1.5 U
Magnesium	35000*	6590	NA	NA	NA	NA	6450	NA	NA	4070 J	NA	NA	3830 J	3940 J	NA	NA	NA	6110
Manganese	300	1170	NA	NA	NA	NA	743	NA	NA	455	NA	NA	414	53.2	NA	NA	NA	23.8
Mercury	0.7	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U
Nickel	100	8.7 J	NA	NA	NA	NA	7.9 J	NA	NA	4.7 J	NA	NA	4.0 J	1.2 U	NA	NA	NA	1.4 U
Potassium	NE	1960 J	NA	NA	NA	NA	2040 J	NA	NA	1680 J	NA	NA	1480 J	1470 J	NA	NA	NA	2710 J
Selenium	10	1.9 U	NA	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U
Silver	50	0.59 J	NA	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	0.54 U	NA	NA	NA	0.60 U
Sodium	20000*	29900	NA	NA	NA	NA	34600	NA	NA	51000	NA	NA	10400	12400	NA	NA	NA	19600
Thallium	0.5*	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U
Vanadium	NE	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	0.82 J	NA	NA	NA	1.8 J
Zinc	2000*	69.0 J	NA	NA	NA	NA	13.5 UJ	NA	NA	18.5 J	NA	NA	70.9	32.4	NA	NA	NA	43.8

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Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-35I2 OU2MW-35I2 1/8/2009	OU2MW-35I2 OU2MW-35I2 3/18/2009	OU2MW-35I2 OU2MW-35I2 4/16/2009	OU2MW-35I2 OU2MW-35I2 5/12/2009	OU2MW-35I2 DUP-01 33 5/12/2009	OU2MW-35I2 OU2MW-35I2 6/16/2009	OU2MW-35I2 OU2MW-35I2 7/9/2009	OU2MW-35I2 OU2MW-35I2 8/12/2009	OU2MW-35I2 OU2MW-35I2 9/16/2009	OU2MW-35I2 OU2MW-35I2 10/21/2009	OU2MW-35I2 OU2MW-35I2 11/17/2009	OU2MW-35I2 OU2MW-35I2 12/8/2009	OU2MW-35S OU2MW-35S 12/30/2008	OU2MW-35S OU2MW-35S 3/23/2009	OU2MW-35S OU2MW-35S 4/16/2009	OU2MW-35S OU2MW-35S 5/11/2009	OU2MW-35S OU2MW-35S 6/17/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	55400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37800 J	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.263	0.318	0.252	NA	0.295	0.307	0.291	0.225	NA	NA	NA	NA	0.231	0.361	0.449	0.465	
Dissolved Oxygen (mg/L)	NE	NA	ND	33	54	NA	37	20	42	39	NA	NA	NA	NA	5.52	5.05	32	20	
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	
Nitrogen, Nitrate (ug/L)	10000	430	NA	NA	NA	NA	100 U	NA	NA	160	NA	NA	1980	850	NA	NA	NA	1660 J	
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	
Nitrogen, Total (ug/L)	NE	590	NA	NA	NA	NA	100 U	NA	NA	160	NA	NA	3260	1360	NA	NA	NA	1910	
Nitrogen, Total Kjeldahl (ug/L)	NE	160	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	1280	510	NA	NA	NA	250	
Oxidation Reduction Potential (mV)	NE	NA	162	251	306	NA	245	332	368	275	NA	NA	NA	NA	-3	14	335	360	
pH (S.U.)	NE	NA	5.34	5.46	5.02	NA	4.88	5.44	5.16	5.04	NA	NA	NA	NA	6.56	6.29	5.81	5.51	
Standard Plate Count (cfu/ml)	NE	1100	NA	170	100	NA	29	NA	NA	74	NA	NA	10	140	NA	230	100	300	
Sulfate (ug/L)	250000	42400	NA	NA	NA	NA	89600	NA	NA	35700	NA	NA	27100	25900	NA	NA	NA	45200	
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	
Temperature at Analysis (deg c)	NE	NA	12.23	14.16	13.33	NA	13.9	14.17	15.1	14.71	NA	NA	NA	NA	12.72	10.57	12.28	13.96	
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	120	

Appendix K Analytical Groundwater Data Summary OU-2 Oxygen Injection Systems Completion Report Bay Shore/Brightwaters Former MGP Site

Table with columns for Location Code, Sample Name, Sample Date, NYS AWQS, and 18 monitoring wells (OU2MW-35S and OU2MW-36D). Rows include various chemical groups: VOCs (e.g., Trichloroethane, Vinyl chloride), Non-carcinogenic PAHs (e.g., Acenaphthene, Fluorene), Carcinogenic PAHs (e.g., Benzo[a]anthracene, Benzo[a]pyrene), Total PAHs, and Other SVOCs (e.g., Bis(2-chloroethoxy)methane, Chloro-3-methylphenol).



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Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-35S	OU2MW-35S	OU2MW-35S	OU2MW-35S	OU2MW-35S	OU2MW-35S	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-36D
		OU2MW-35S 7/9/2009	OU2MW-35S 8/12/2009	OU2MW-35S 9/16/2009	OU2MW-35S 10/14/2009	OU2MW-35S 11/17/2009	OU2MW-35S 12/8/2009	OU2MW-36D 12/19/2008	OU2MW-36D 3/23/2009	OU2MW-36D 4/17/2009	OU2MW-36D 5/13/2009	OU2MW-36D 6/15/2009	OU2MW-36D 7/7/2009	OU2MW-36D 8/12/2009	OU2MW-36D 9/14/2009	OU2MW-36D 10/13/2009	OU2MW-36D 11/16/2009	OU2MW-36D 12/7/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	17.7 U	NA	NA	59.4 UJ	57.0 UJ	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	77.2 UJ
Antimony	3	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	3.9 J
Arsenic	25	NA	NA	2.3 U	NA	NA	2.3 U	6.8 J	NA	NA	NA	10.1	NA	NA	6.9 J	NA	NA	7.9 J
Barium	1000	NA	NA	13.6 J	NA	NA	22.8 J	15.6 J	NA	NA	NA	52.8 J	NA	NA	62.3 J	NA	NA	56.1 J
Beryllium	3*	NA	NA	0.26 U	NA	NA	0.26 U	0.21 UJ	NA	NA	NA	0.21 J	NA	NA	0.26 U	NA	NA	1.2 UJ
Cadmium	5	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	0.57 UJ	NA	NA	0.34 U	NA	NA	0.65 J
Calcium	NE	NA	NA	38300	NA	NA	58000	7390	NA	NA	NA	20200	NA	NA	20700	NA	NA	17100
Chromium	50	NA	NA	0.50 J	NA	NA	0.44 UJ	0.52 UJ	NA	NA	NA	2.5 J	NA	NA	0.44 U	NA	NA	1.1 J
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	1.2 U	NA	NA	1.2 U	1.3 J	NA	NA	NA	3.2 J	NA	NA	3.1 J	NA	NA	3.7 J
Copper	200	NA	NA	2.1 J	NA	NA	3.6 J	0.65 UJ	NA	NA	NA	2.3 J	NA	NA	0.83 U	NA	NA	1.9 J
Iron	300	NA	NA	67.4 J	NA	NA	104	11800	NA	NA	NA	28500	NA	NA	29800	NA	NA	23800
Lead	25	NA	NA	1.8 U	NA	NA	1.8 U	2.4 UJ	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	2.2 J
Magnesium	35000*	NA	NA	5020	NA	NA	6900	2890 J	NA	NA	NA	8230	NA	NA	8130	NA	NA	6520
Manganese	300	NA	NA	15.2	NA	NA	13.5 J	246	NA	NA	NA	561	NA	NA	604	NA	NA	494
Mercury	0.7	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U
Nickel	100	NA	NA	1.4 U	NA	NA	1.4 U	2.4 UJ	NA	NA	NA	3.6 J	NA	NA	2.0 J	NA	NA	3.0 J
Potassium	NE	NA	NA	2840 J	NA	NA	4000 J	847 J	NA	NA	NA	1690 J	NA	NA	2180 J	NA	NA	2010 J
Selenium	10	NA	NA	2.5 U	NA	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U
Silver	50	NA	NA	0.83 U	NA	NA	0.83 U	0.54 UJ	NA	NA	NA	0.80 J	NA	NA	0.83 U	NA	NA	1.4 UJ
Sodium	20000*	NA	NA	48100	NA	NA	32800	8010	NA	NA	NA	26200	NA	NA	36500	NA	NA	35500
Thallium	0.5*	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U
Vanadium	NE	NA	NA	1.8 J	NA	NA	1.4 U	0.74 U	NA	NA	NA	1.1 J	NA	NA	1.5 J	NA	NA	2.6 J
Zinc	2000*	NA	NA	19.5 J	NA	NA	98.3	9.3 UJ	NA	NA	NA	145	NA	NA	11.6 J	NA	NA	31.8

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-35S OU2MW-35S 7/9/2009	OU2MW-35S OU2MW-35S 8/12/2009	OU2MW-35S OU2MW-35S 9/16/2009	OU2MW-35S OU2MW-35S 10/14/2009	OU2MW-35S OU2MW-35S 11/17/2009	OU2MW-35S OU2MW-35S 12/8/2009	OU2MW-36D OU2MW-36D 12/19/2008	OU2MW-36D OU2MW-36D 3/23/2009	OU2MW-36D OU2MW-36D 4/17/2009	OU2MW-36D OU2MW-36D 5/13/2009	OU2MW-36D OU2MW-36D 6/15/2009	OU2MW-36D OU2MW-36D 7/7/2009	OU2MW-36D OU2MW-36D 8/12/2009	OU2MW-36D OU2MW-36D 9/14/2009	OU2MW-36D OU2MW-36D 10/13/2009	OU2MW-36D OU2MW-36D 11/16/2009	OU2MW-36D OU2MW-36D 12/7/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	60700 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.265	0.250	0.397	NA	NA	NA	NA	0.228	0.344	0.402	0.417	0.42	4.54	0.585	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	34	20	37	NA	NA	NA	NA	ND	ND	ND	ND	ND	3.21	ND	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U
Nitrogen, Nitrate (ug/L)	10000	NA	NA	730	NA	NA	100 U	100 U	NA	NA	NA	160 J	NA	NA	100 U	NA	NA	NA	100 U
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	830	NA	NA	960	100 U	NA	NA	NA	160	NA	NA	100 U	NA	NA	NA	100 U
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	100	NA	NA	960	100 UJ	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U
Oxidation Reduction Potential (mV)	NE	331	137	221	NA	NA	NA	NA	-2	13	46	39	18	-25	31	NA	NA	NA	NA
pH (S.U.)	NE	5.95	5.87	5.71	NA	NA	NA	NA	5.92	5.78	5.82	6.1	5.77	5.63	5.58	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	45	NA	NA	12	4000	NA	240	83	140	NA	NA	65	NA	NA	NA	1100
Sulfate (ug/L)	250000	NA	NA	30100	NA	NA	39400	29700	NA	NA	NA	167000	NA	NA	160000	NA	NA	NA	150000
Sulfide (ug/L)	50*	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	NA	2000 UJ
Temperature at Analysis (deg c)	NE	15.03	17.13	17.29	NA	NA	NA	NA	11.24	11.23	13.58	14.06	15.67	22.40	17.96	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-361 12/19/2008	OU2MW-361 3/23/2009	OU2MW-361 4/17/2009	OU2MW-361 5/13/2009	OU2MW-361 6/15/2009	OU2MW-361 7/8/2009	OU2MW-361 8/12/2009	OU2MW-361 9/16/2009	OU2MW-361 10/19/2009	OU2MW-361 10/19/2009	OU2MW-361 11/16/2009	OU2MW-361 12/11/2009	OU2MW-361 12/11/2009	OU2MW-361 12/19/2008	OU2MW-361 3/23/2009	OU2MW-361 4/17/2009	OU2MW-361 5/13/2009	OU2MW-361 6/15/2009
BTEX (ug/L)																			
Benzene	1	33	6	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	6	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	100	23	24	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	56	7 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	93 J	18	13	9	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	288	55	42	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/L)																			
Acetaldehyde	8*	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	R	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Acetone	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Allyl chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Butadiene, 1,3-	NE	10 U	R	R	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	R	R	R	R	R	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Carbon disulfide	60*	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	1 J	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Chlorotoluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cryofluorane	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Decane, n-	NE	10 UJ	NA	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	NA	10 UJ	10 U	10 U
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropane, 1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Dodecane, n-	NE	10 UJ	NA	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	NA	10 U	10 UJ
Ethanol	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Hexachlorobutadiene	0.5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Hexanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	18 J	3 J	5 J	4 J	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Naphthalene	10*	1500	770	330	200	5 J	4 J	2 J	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U
Nonane	NE	10 UJ	NA	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 UJ	10 U	10 U
Octane, n-	NE	10 UJ	NA	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	NA	10 U	10 U	10 U
Propanol, 2-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	500 U	R	R	R	R
Propylbenzene, n-	5	7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	21	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Trans-1,2-dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U
Trichlorobenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Appendix K
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-361 OU2MW-361 12/19/2008	OU2MW-361 OU2MW-361 3/23/2009	OU2MW-361 OU2MW-361 4/17/2009	OU2MW-361 OU2MW-361 5/13/2009	OU2MW-361 OU2MW-361 6/15/2009	OU2MW-361 OU2MW-361 7/8/2009	OU2MW-361 OU2MW-361 8/12/2009	OU2MW-361 OU2MW-361 9/16/2009	OU2MW-361 OU2MW-361 10/19/2009	OU2MW-361 DUP-33NC 10/19/2009	OU2MW-361 OU2MW-361 11/16/2009	OU2MW-361 OU2MW-361 12/11/2009	OU2MW-361 DUP-33NC 12/11/2009	OU2MW-3612 OU2MW-3612 12/19/2008	OU2MW-3612 OU2MW-3612 3/23/2009	OU2MW-3612 OU2MW-3612 4/17/2009	OU2MW-3612 OU2MW-3612 5/13/2009	OU2MW-3612 OU2MW-3612 6/15/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	52	21	9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	100 J	35	21	8	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ
Vinyl acetate	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Total VOCs	NE	1986	884	407	221	5	4	2	3	ND	ND	1	ND	ND	ND	ND	11	ND	ND
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	17	42	32	23	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	130	60	50	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	6	7	5 J	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	4 J	4 J	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	4 J	4 J	4 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	16	12	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	1100	410	210	190	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	21	30	15	27	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	4 J	4 J	3 J	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	1302	573	325	307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	1302	573	325	307	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361	OU2MW-361
		12/19/2008	3/23/2009	4/17/2009	5/13/2009	6/15/2009	7/8/2009	8/12/2009	9/16/2009	10/19/2009	10/19/2009	11/16/2009	12/11/2009	12/11/2009	12/19/2008	3/23/2009	4/17/2009	5/13/2009	6/15/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	1302	573	325	307	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	30.1 UJ	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	NA	44.1 UJ	NA	40.1 UJ	NA	NA	NA	9.2 UJ
Antimony	3	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	NA	2.1 U	NA	2.3 U	NA	NA	NA	2.7 U
Arsenic	25	1.8 U	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA	2.8 U
Barium	1000	41.7 J	NA	NA	NA	34.6 J	NA	NA	52.2 J	NA	NA	NA	51.2 J	NA	21.2 J	NA	NA	NA	22.6 J
Beryllium	3*	0.22 UJ	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	NA	0.26 U	NA	0.25 UJ	NA	NA	NA	0.16 U
Cadmium	5	0.35 U	NA	NA	NA	0.26 UJ	NA	NA	0.35 J	NA	NA	NA	0.37 J	NA	0.89 UJ	NA	NA	NA	1.4 UJ
Calcium	NE	22900	NA	NA	NA	20100	NA	NA	23000	NA	NA	NA	21300	NA	11100	NA	NA	NA	11900
Chromium	50	0.51 UJ	NA	NA	NA	1.0 J	NA	NA	0.44 U	NA	NA	NA	0.80 J	NA	0.93 UJ	NA	NA	NA	0.46 J
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	3.8 J	NA	NA	NA	2.6 J	NA	NA	1.3 J	NA	NA	NA	1.3 J	NA	27.2 J	NA	NA	NA	37.4 J
Copper	200	0.65 UJ	NA	NA	NA	1.7 J	NA	NA	2.1 J	NA	NA	NA	3.5 J	NA	0.65 UJ	NA	NA	NA	1.3 J
Iron	300	3630	NA	NA	NA	1980	NA	NA	161	NA	NA	NA	66.6 J	NA	133	NA	NA	NA	125
Lead	25	3.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	NA	1.8 U	NA	2.0 UJ	NA	NA	NA	1.5 U
Magnesium	35000*	4180 J	NA	NA	NA	3920 J	NA	NA	3670 J	NA	NA	NA	3490 J	NA	3940 J	NA	NA	NA	4440 J
Manganese	300	5850	NA	NA	NA	3560	NA	NA	4470	NA	NA	NA	4070	NA	732	NA	NA	NA	1270
Mercury	0.7	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	0.10 U	NA	NA	NA	0.10 U
Nickel	100	1.7 UJ	NA	NA	NA	2.6 J	NA	NA	1.4 U	NA	NA	NA	1.4 U	NA	6.2 J	NA	NA	NA	7.9 J
Potassium	NE	3480 J	NA	NA	NA	3830 J	NA	NA	5180	NA	NA	NA	4890 J	NA	1080 J	NA	NA	NA	1260 J
Selenium	10	1.9 U	NA	NA	NA	2.7 U	NA	NA	3.8 J	NA	NA	NA	2.5 U	NA	1.9 U	NA	NA	NA	2.7 U
Silver	50	0.94 J	NA	NA	NA	0.93 J	NA	NA	0.83 U	NA	NA	NA	0.83 U	NA	0.54 UJ	NA	NA	NA	0.60 U
Sodium	20000*	60200	NA	NA	NA	63800	NA	NA	76800	NA	NA	NA	77400	NA	17600	NA	NA	NA	16800
Thallium	0.5*	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	3.3 U
Vanadium	NE	0.74 U	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	NA	1.4 U	NA	0.74 U	NA	NA	NA	0.97 U
Zinc	2000*	1.5 U	NA	NA	NA	5.2 UJ	NA	NA	2.4 J	NA	NA	NA	50.9	NA	11.4 UJ	NA	NA	NA	13.6 UJ

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-361 OU2MW-361 12/19/2008	OU2MW-361 OU2MW-361 3/23/2009	OU2MW-361 OU2MW-361 4/17/2009	OU2MW-361 OU2MW-361 5/13/2009	OU2MW-361 OU2MW-361 6/15/2009	OU2MW-361 OU2MW-361 7/8/2009	OU2MW-361 OU2MW-361 8/12/2009	OU2MW-361 OU2MW-361 9/16/2009	OU2MW-361 OU2MW-361 10/19/2009	OU2MW-361 DUP-33NC 10/19/2009	OU2MW-361 OU2MW-361 11/16/2009	OU2MW-361 OU2MW-361 12/11/2009	OU2MW-361 DUP-33NC 12/11/2009	OU2MW-3612 OU2MW-3612 12/19/2008	OU2MW-3612 OU2MW-3612 3/23/2009	OU2MW-3612 OU2MW-3612 4/17/2009	OU2MW-3612 OU2MW-3612 5/13/2009	OU2MW-3612 OU2MW-3612 6/15/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	44900 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49300 J	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.363	0.474	0.485	0.538	0.521	0.689	0.716	NA	NA	NA	NA	NA	NA	0.173	0.262	0.262	0.239
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	ND	ND	15.36	25	25	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA	NA	NA	100 U
Nitrogen, Nitrate (ug/L)	10000	190	NA	NA	NA	1060 J	NA	NA	750	NA	NA	NA	250	NA	100 U	NA	NA	NA	100 UJ
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	100 U	NA	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	190	NA	NA	NA	1260	NA	NA	1060	NA	NA	NA	610	NA	100 U	NA	NA	NA	100 U
Nitrogen, Total Kjeldahl (ug/L)	NE	100 UJ	NA	NA	NA	200	NA	NA	310	NA	NA	NA	360	NA	100 UJ	NA	NA	NA	100 U
Oxidation Reduction Potential (mV)	NE	NA	-8	-7	23	77	123	280	218	NA	NA	NA	NA	NA	NA	199	226	204	170
pH (S.U.)	NE	NA	6.42	6.37	6.37	6.43	6.14	5.90	5.57	NA	NA	NA	NA	NA	NA	5.28	5.14	5.19	5.61
Standard Plate Count (cfu/ml)	NE	120	NA	1000	710	1500	NA	NA	320	NA	NA	NA	170	NA	100	NA	45	53	57
Sulfate (ug/L)	250000	23900	NA	NA	NA	24800	NA	NA	25700	NA	NA	NA	33800	NA	56400	NA	NA	NA	49300
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	2000 U
Temperature at Analysis (deg c)	NE	NA	10.54	12.18	12.98	14.62	16.64	22.8	16.26	NA	NA	NA	NA	NA	NA	10.91	11.92	13.46	14.4
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	NA	50 U	NA	50 U	NA	NA	NA	50 U

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OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3612 DUP-01-33 6/15/2009	OU2MW-3612 OU2MW-3612 7/7/2009	OU2MW-3612 OU2MW-3612 8/12/2009	OU2MW-3612 OU2MW-3612 9/15/2009	OU2MW-3612 OU2MW-3612 10/19/2009	OU2MW-3612 OU2MW-3612 11/16/2009	OU2MW-3612 OU2MW-3612 12/7/2009	OU2MW-36S OU2MW-36S 12/29/2008	OU2MW-36S OU2MW-36S 3/23/2009	OU2MW-36S OU2MW-36S 4/17/2009	OU2MW-36S OU2MW-36S 5/13/2009	OU2MW-36S OU2MW-36S 6/15/2009	OU2MW-36S OU2MW-36S 7/6/2009	OU2MW-36S DUP-01 33NC 7/6/2009	OU2MW-36S OU2MW-36S 8/12/2009	OU2MW-36S OU2MW-36S 9/17/2009	OU2MW-36S OU2MW-36S 10/19/2009	
BTEX (ug/L)																			
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/L)																			
Acetaldehyde	8*	10 U	10 UJ	R	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	R	10 U	10 UJ	10 UJ
Acetone	50*	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Allyl chloride	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50*	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Butadiene, 1,3-	NE	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	R	R	R	R	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Butanone, 2-	50*	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Carbon disulfide	60*	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	4 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Chlorotoluene	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Cryofluorane	NE	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Decane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropane, 1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Dodecane, n-	NE	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	NA	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ
Ethanol	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Hexachlorobutadiene	0.5	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Hexane, n-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
Hexanone, 2-	50*	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Naphthalene	10*	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Nonane	NE	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Octane, n-	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Propanol, 2-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Propylbenzene, n-	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Trans-1,2-dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U
Trichlorobenzene, 1,2,4-	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U

Appendix K
Analytical Groundwater Data Summary
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Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3612 DUP-01-33 6/15/2009	OU2MW-3612 OU2MW-3612 7/7/2009	OU2MW-3612 OU2MW-3612 8/12/2009	OU2MW-3612 OU2MW-3612 9/15/2009	OU2MW-3612 OU2MW-3612 10/19/2009	OU2MW-3612 OU2MW-3612 11/16/2009	OU2MW-3612 OU2MW-3612 12/7/2009	OU2MW-36S OU2MW-36S 12/29/2008	OU2MW-36S OU2MW-36S 3/23/2009	OU2MW-36S OU2MW-36S 4/17/2009	OU2MW-36S OU2MW-36S 5/13/2009	OU2MW-36S OU2MW-36S 6/15/2009	OU2MW-36S OU2MW-36S 7/6/2009	OU2MW-36S DUP-01 33NC 7/6/2009	OU2MW-36S OU2MW-36S 8/12/2009	OU2MW-36S OU2MW-36S 9/17/2009	OU2MW-36S OU2MW-36S 10/19/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichlorofluoromethane	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	
Vinyl acetate	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	
Total VOCs	NE	ND	ND	ND	ND	ND	ND	4	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carcinogenic PAHs (ug/L)																			
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benz[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Appendix K
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OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3612 DUP-01-33 6/15/2009	OU2MW-3612 OU2MW-3612 7/7/2009	OU2MW-3612 OU2MW-3612 8/12/2009	OU2MW-3612 OU2MW-3612 9/15/2009	OU2MW-3612 OU2MW-3612 10/19/2009	OU2MW-3612 OU2MW-3612 11/16/2009	OU2MW-3612 OU2MW-3612 12/7/2009	OU2MW-36S OU2MW-36S 12/29/2008	OU2MW-36S OU2MW-36S 3/23/2009	OU2MW-36S OU2MW-36S 4/17/2009	OU2MW-36S OU2MW-36S 5/13/2009	OU2MW-36S OU2MW-36S 6/15/2009	OU2MW-36S OU2MW-36S 7/6/2009	OU2MW-36S DUP-01 33NC 7/6/2009	OU2MW-36S OU2MW-36S 8/12/2009	OU2MW-36S OU2MW-36S 9/17/2009	OU2MW-36S OU2MW-36S 10/19/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	NA	17.7 U	NA	NA	46.9 UJ	40.5 UJ	NA	NA	NA	9.2 UJ	NA	NA	NA	17.7 U	NA
Antimony	3	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA
Arsenic	25	NA	NA	NA	2.3 U	NA	NA	2.3 U	2.1 UJ	NA	NA	NA	2.8 U	NA	NA	NA	2.3 U	NA
Barium	1000	NA	NA	NA	17.3 J	NA	NA	33.8 J	10.6 J	NA	NA	NA	54.8 J	NA	NA	NA	16.6 J	NA
Beryllium	3*	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.55 UJ	NA	NA	NA	0.16 U	NA	NA	NA	0.26 U	NA
Cadmium	5	NA	NA	NA	1.0 J	NA	NA	1.9 J	0.39 J	NA	NA	NA	0.23 U	NA	NA	NA	0.34 U	NA
Calcium	NE	NA	NA	NA	9090	NA	NA	14500	30300	NA	NA	NA	90700	NA	NA	NA	35600	NA
Chromium	50	NA	NA	NA	0.44 U	NA	NA	0.44 UJ	0.73 UJ	NA	NA	NA	0.64 J	NA	NA	NA	0.47 J	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	39.3 J	NA	NA	63.4	0.88 U	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA
Copper	200	NA	NA	NA	0.83 U	NA	NA	2.5 J	2.3 J	NA	NA	NA	4.0 J	NA	NA	NA	1.8 J	NA
Iron	300	NA	NA	NA	243	NA	NA	358	33.1 UJ	NA	NA	NA	4.3 UJ	NA	NA	NA	19.3 UJ	NA
Lead	25	NA	NA	NA	1.8 U	NA	NA	1.8 U	1.3 UJ	NA	NA	NA	1.5 U	NA	NA	NA	1.8 U	NA
Magnesium	35000*	NA	NA	NA	3290 J	NA	NA	5100	3650 J	NA	NA	NA	6960	NA	NA	NA	2630 J	NA
Manganese	300	NA	NA	NA	980	NA	NA	1390	2.3 J	NA	NA	NA	2.4 J	NA	NA	NA	1.0 J	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA
Nickel	100	NA	NA	NA	6.3 J	NA	NA	9.5 J	1.2 U	NA	NA	NA	2.4 J	NA	NA	NA	1.4 U	NA
Potassium	NE	NA	NA	NA	1250 J	NA	NA	1630 J	1630 J	NA	NA	NA	6550	NA	NA	NA	2840 J	NA
Selenium	10	NA	NA	NA	2.5 U	NA	NA	2.5 U	2.0 UJ	NA	NA	NA	2.7 U	NA	NA	NA	2.5 U	NA
Silver	50	NA	NA	NA	0.83 U	NA	NA	0.83 U	0.54 U	NA	NA	NA	0.60 U	NA	NA	NA	0.83 U	NA
Sodium	20000*	NA	NA	NA	48200	NA	NA	21800	10800	NA	NA	NA	48700	NA	NA	NA	31600	NA
Thallium	0.5*	NA	NA	NA	3.2 U	NA	NA	3.2 U	2.7 UJ	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA
Vanadium	NE	NA	NA	NA	1.4 U	NA	NA	1.4 U	0.81 J	NA	NA	NA	0.97 U	NA	NA	NA	1.4 U	NA
Zinc	2000*	NA	NA	NA	16.4 J	NA	NA	56.8	14.0 J	NA	NA	NA	10.7 UJ	NA	NA	NA	9.0 J	NA

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3612 DUP-01-33 6/15/2009	OU2MW-3612 OU2MW-3612 7/7/2009	OU2MW-3612 OU2MW-3612 8/12/2009	OU2MW-3612 OU2MW-3612 9/15/2009	OU2MW-3612 OU2MW-3612 10/19/2009	OU2MW-3612 OU2MW-3612 11/16/2009	OU2MW-3612 OU2MW-3612 12/7/2009	OU2MW-36S OU2MW-36S 12/29/2008	OU2MW-36S OU2MW-36S 3/23/2009	OU2MW-36S OU2MW-36S 4/17/2009	OU2MW-36S OU2MW-36S 5/13/2009	OU2MW-36S OU2MW-36S 6/15/2009	OU2MW-36S OU2MW-36S 7/6/2009	OU2MW-36S DUP-01 33NC 7/6/2009	OU2MW-36S OU2MW-36S 8/12/2009	OU2MW-36S OU2MW-36S 9/17/2009	OU2MW-36S OU2MW-36S 10/19/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	37000 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.185	0.191	0.195	NA	NA	NA	NA	1.07	0.992	0.731	0.968	0.801	NA	0.593	0.400	NA	NA
Dissolved Oxygen (mg/L)	NE	NA	ND	ND	ND	NA	NA	NA	NA	5.03	6.03	ND	ND	5.70	NA	6.3	9.77	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	NA	100 UJ	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	100 U	NA	NA	100 U	1100	NA	NA	NA	1100 J	NA	NA	NA	1470	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	100 U	NA	NA	100 U	1380	NA	NA	NA	1100	NA	NA	NA	1590	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	100 U	NA	NA	100 U	280	NA	NA	NA	100 U	NA	NA	NA	120	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	154	216	265	NA	NA	NA	NA	148	147	309	206	185	NA	260	150	NA	NA
pH (S.U.)	NE	NA	5.19	5.04	4.48	NA	NA	NA	NA	6.44	6.40	6.15	6.2	6.18	NA	6.13	6.00	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	1100	NA	NA	560	62	NA	33	63	130	NA	NA	NA	500	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	30900	NA	NA	71700	18000	NA	NA	NA	13400	NA	NA	NA	16900	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	NA	2000 U	NA	NA
Temperature at Analysis (deg c)	NE	NA	15.80	22.9	17.47	NA	NA	NA	NA	7.30	10.85	12.09	15.83	17.23	NA	22.3	19.49	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	610	NA	NA	NA	50 U	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-36S	OU2MW-36S	OU2MW-36S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	
		OU2MW-36S	DUP-33NC	OU2MW-36S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S	OU2MW-37S
		11/16/2009	11/16/2009	12/11/2009	1/8/2009	3/25/2009	4/15/2009	5/12/2009	6/17/2009	7/8/2009	8/11/2009	9/17/2009	10/21/2009	11/16/2009	12/8/2009	1/8/2009	3/25/2009	4/15/2009	5/12/2009	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total SVOCs	NE	NA	NA	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	38	130	216
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	32.3 UJ	20.0 UJ	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	44.2 UJ	38.5 UJ	NA	NA	NA	
Antimony	3	NA	NA	2.3 J	2.3 U	NA	NA	NA	2.7 U	NA	NA	4.5 UJ	NA	NA	2.1 U	2.3 U	NA	NA	NA	
Arsenic	25	NA	NA	2.3 U	2.0 UJ	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	1.8 U	NA	NA	NA	
Barium	1000	NA	NA	17.4 J	9.0 J	NA	NA	NA	8.6 J	NA	NA	9.3 J	NA	NA	11.4 J	38.4 J	NA	NA	NA	
Beryllium	3*	NA	NA	0.26 U	0.16 UJ	NA	NA	NA	0.16 U	NA	NA	0.28 UJ	NA	NA	0.26 U	0.18 UJ	NA	NA	NA	
Cadmium	5	NA	NA	0.34 U	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	
Calcium	NE	NA	NA	34700	39900	NA	NA	NA	35200	NA	NA	39700	NA	NA	39800	31500	NA	NA	NA	
Chromium	50	NA	NA	0.44 UJ	0.79 J	NA	NA	NA	0.99 J	NA	NA	0.77 J	NA	NA	0.44 UJ	0.54 J	NA	NA	NA	
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NA	NA	1.2 U	1.5 J	NA	NA	NA	1.2 U	NA	NA	1.2 U	NA	NA	1.2 U	0.88 U	NA	NA	NA	
Copper	200	NA	NA	2.4 J	3.3 J	NA	NA	NA	2.7 J	NA	NA	2.8 J	NA	NA	3.5 J	1.8 J	NA	NA	NA	
Iron	300	NA	NA	32.0 J	86.0 J	NA	NA	NA	5.2 UJ	NA	NA	34.4 J	NA	NA	48.9 J	262	NA	NA	NA	
Lead	25	NA	NA	1.9 J	1.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	1.8 U	1.3 U	NA	NA	NA	
Magnesium	35000*	NA	NA	3100 J	5020	NA	NA	NA	3880 J	NA	NA	4370 J	NA	NA	4270 J	4990 J	NA	NA	NA	
Manganese	300	NA	NA	3.0 J	1750	NA	NA	NA	2.3 J	NA	NA	2.9 J	NA	NA	3.8 J	936	NA	NA	NA	
Mercury	0.7	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	
Nickel	100	NA	NA	1.4 U	1.2 U	NA	NA	NA	1.5 J	NA	NA	1.4 J	NA	NA	1.4 U	1.2 U	NA	NA	NA	
Potassium	NE	NA	NA	2670 J	2470 J	NA	NA	NA	4290 J	NA	NA	3810 J	NA	NA	4630 J	3010 J	NA	NA	NA	
Selenium	10	NA	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	1.9 U	NA	NA	NA	
Silver	50	NA	NA	0.83 U	0.74 J	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	0.60 J	NA	NA	NA	
Sodium	20000*	NA	NA	13200	21200	NA	NA	NA	9340	NA	NA	32300	NA	NA	22000	70800	NA	NA	NA	
Thallium	0.5*	NA	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	2.3 J	NA	NA	NA	
Vanadium	NE	NA	NA	1.4 U	0.74 U	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	0.74 U	NA	NA	NA	
Zinc	2000*	NA	NA	50.7	92.2 J	NA	NA	NA	14.2 UJ	NA	NA	16.6 J	NA	NA	60.8	70.3 J	NA	NA	NA	

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-36S OU2MW-36S 11/16/2009	OU2MW-36S DUP-33NC 11/16/2009	OU2MW-36S OU2MW-36S 12/11/2009	OU2MW-37S OU2MW-37S 1/8/2009	OU2MW-37S OU2MW-37S 3/25/2009	OU2MW-37S OU2MW-37S 4/15/2009	OU2MW-37S OU2MW-37S 5/12/2009	OU2MW-37S OU2MW-37S 6/17/2009	OU2MW-37S OU2MW-37S 7/8/2009	OU2MW-37S OU2MW-37S 8/11/2009	OU2MW-37S OU2MW-37S 9/17/2009	OU2MW-37S OU2MW-37S 10/21/2009	OU2MW-37S OU2MW-37S 11/16/2009	OU2MW-37S OU2MW-37S 12/8/2009	OU2MW-37I OU2MW-37I 1/8/2009	OU2MW-37I OU2MW-37I 3/25/2009	OU2MW-37I OU2MW-37I 4/15/2009	OU2MW-37I OU2MW-37I 5/12/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	41400 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88900 J	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	0.262	0.289	0.260	0.237	0.309	0.328	0.407	NA	NA	NA	NA	0.419	0.507	0.464
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	ND	12.69	19.77	17.05	29	15.6	31	NA	NA	NA	NA	NA	ND	29
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	1330	1260	NA	NA	NA	3700 J	NA	NA	3280	NA	NA	4470	180	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	1700	2330	NA	NA	NA	3700	NA	NA	3780	NA	NA	4770	180	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	370	1070	NA	NA	NA	100 U	NA	NA	500	NA	NA	300	100 U	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	96	146	199	145	312	272	198	NA	NA	NA	NA	68	171	215
pH (S.U.)	NE	NA	NA	NA	NA	6.58	6.42	6.42	6.24	6.10	6.07	5.91	NA	NA	NA	NA	6.31	6.23	6.25
Standard Plate Count (cfu/ml)	NE	NA	NA	42	130	NA	560	130	1100	NA	NA	2100	NA	NA	280	230	NA	1800	2100
Sulfate (ug/L)	250000	NA	NA	16800	14200	NA	NA	NA	14500	NA	NA	13700	NA	NA	9820	20300	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	11.13	12.04	12.59	14.9	15.33	17.4	16.90	NA	NA	NA	NA	12.97	11.08	13.97
Total Phosphorous (ug/L)	NE	NA	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA

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Table with columns for Location Code, Sample Name, Sample Date, and 20 sampling locations (OU2MW-371 to OU2MW-3712, DUP-15). Rows list various chemical compounds including VOCs, PAHs, and SVOCs with their respective data points (e.g., 10 U, 5 J, 17, 67, ND).



Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-371 OU2MW-371 6/17/2009	OU2MW-371 OU2MW-371 7/8/2009	OU2MW-371 OU2MW-371 8/11/2009	OU2MW-371 OU2MW-371 9/17/2009	OU2MW-371 OU2MW-371 10/21/2009	OU2MW-371 OU2MW-371 11/16/2009	OU2MW-371 OU2MW-371 12/8/2009	OU2MW-371 OU2MW-371 1/8/2009	OU2MW-3712 DUP-15 1/8/2009	OU2MW-3712 OU2MW-3712 3/25/2009	OU2MW-3712 OU2MW-3712 4/15/2009	OU2MW-3712 OU2MW-3712 5/12/2009	OU2MW-3712 OU2MW-3712 6/17/2009	OU2MW-3712 OU2MW-3712 7/8/2009	OU2MW-3712 OU2MW-3712 8/11/2009	OU2MW-3712 OU2MW-3712 9/17/2009	OU2MW-3712 OU2MW-3712 10/21/2009	OU2MW-3712 OU2MW-3712 11/16/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	67	22	14	23	77	28	NA	NA	NA	NA	3	NA	NA	NA	1	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	9.2 UJ	NA	NA	137 UJ	NA	NA	59.9 UJ	40.0 UJ	NA	NA	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA
Antimony	3	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA
Arsenic	25	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA
Barium	1000	35.9 J	NA	NA	41.2 J	NA	NA	44.3 J	100 J	NA	NA	NA	NA	157 J	NA	NA	104 J	NA	NA
Beryllium	3*	0.22 J	NA	NA	0.26 U	NA	NA	0.26 U	0.21 UJ	NA	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA
Cadmium	5	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	NA	0.49 UJ	NA	NA	0.34 U	NA	NA
Calcium	NE	31100	NA	NA	36100	NA	NA	45500	12400	NA	NA	NA	NA	20800	NA	NA	14000	NA	NA
Chromium	50	0.64 J	NA	NA	0.44 U	NA	NA	0.46 J	0.74 J	NA	NA	NA	NA	1.0 J	NA	NA	0.44 U	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	NA	NA	1.2 U	NA	NA	1.2 J	3.7 J	NA	NA	NA	NA	5.0 J	NA	NA	3.4 J	NA	NA
Copper	200	2.2 J	NA	NA	1.7 J	NA	NA	6.8 J	1.2 J	NA	NA	NA	NA	1.2 U	NA	NA	0.83 U	NA	NA
Iron	300	10.1 UJ	NA	NA	251	NA	NA	76.3 J	49.4 UJ	NA	NA	NA	NA	10.6 UJ	NA	NA	20.6 UJ	NA	NA
Lead	25	1.5 U	NA	NA	1.8 U	NA	NA	2.2 J	1.4 J	NA	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA
Magnesium	35000*	4890 J	NA	NA	5520	NA	NA	6970	3760 J	NA	NA	NA	NA	6020	NA	NA	3410 J	NA	NA
Manganese	300	1090	NA	NA	1090	NA	NA	1960	1580	NA	NA	NA	NA	2510	NA	NA	1950	NA	NA
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA
Nickel	100	1.8 J	NA	NA	1.4 U	NA	NA	1.4 U	3.0 J	NA	NA	NA	NA	4.9 J	NA	NA	3.0 J	NA	NA
Potassium	NE	2760 J	NA	NA	3370 J	NA	NA	3630 J	4660 J	NA	NA	NA	NA	6760	NA	NA	5780	NA	NA
Selenium	10	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	1.9 U	NA	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA
Silver	50	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	0.66 J	NA	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA
Sodium	20000*	53300	NA	NA	65800	NA	NA	47800	53500	NA	NA	NA	NA	58100	NA	NA	51700	NA	NA
Thallium	0.5*	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA
Vanadium	NE	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA
Zinc	2000*	41.4	NA	NA	8.4 J	NA	NA	60.4	46.8 J	NA	NA	NA	NA	11.3 UJ	NA	NA	9.9 J	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-371 OU2MW-371 6/17/2009	OU2MW-371 OU2MW-371 7/8/2009	OU2MW-371 OU2MW-371 8/11/2009	OU2MW-371 OU2MW-371 9/17/2009	OU2MW-371 OU2MW-371 10/21/2009	OU2MW-371 OU2MW-371 11/16/2009	OU2MW-371 OU2MW-371 12/8/2009	OU2MW-371 OU2MW-371 1/8/2009	OU2MW-371 DUP-15 1/8/2009	OU2MW-371 OU2MW-371 3/25/2009	OU2MW-371 OU2MW-371 4/15/2009	OU2MW-371 OU2MW-371 5/12/2009	OU2MW-371 OU2MW-371 6/17/2009	OU2MW-371 OU2MW-371 7/8/2009	OU2MW-371 OU2MW-371 8/11/2009	OU2MW-371 OU2MW-371 9/17/2009	OU2MW-371 OU2MW-371 10/21/2009	OU2MW-371 OU2MW-371 11/16/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	58100 J	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.423	0.429	0.550	0.693	NA	NA	NA	NA	NA	0.386	0.457	0.592	0.631	0.483	0.455	0.532	NA	NA
Dissolved Oxygen (mg/L)	NE	20	39	19.1	40	NA	NA	NA	NA	NA	ND	0.23	ND	ND	ND	2.85	ND	NA	NA
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	100 U	NA	NA	100 U	970	NA	NA	NA	NA	1620	NA	NA	1460	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 UJ	NA	NA	100 U	NA	NA	100 U	3910	NA	NA	NA	NA	3530 J	NA	NA	3630	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	100 U	NA	NA	180	NA	NA	350	4730	NA	NA	NA	NA	6830	NA	NA	5320	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	100 U	NA	NA	180	NA	NA	350	820	NA	NA	NA	NA	3300	NA	NA	1690	NA	NA
Oxidation Reduction Potential (mV)	NE	191	256	290	207	NA	NA	NA	NA	NA	222	246	202	260	296	64	233	NA	NA
pH (S.U.)	NE	5.5	6.11	5.96	6.03	NA	NA	NA	NA	NA	5.56	5.52	5.91	4.99	5.45	5.51	5.31	NA	NA
Standard Plate Count (cfu/ml)	NE	750	NA	NA	2500	NA	NA	700	1700	NA	NA	170	180	400	NA	NA	430	NA	NA
Sulfate (ug/L)	250000	21500	NA	NA	21100	NA	NA	46500	27000	NA	NA	NA	NA	34300	NA	NA	45800	NA	NA
Sulfide (ug/L)	50*	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA
Temperature at Analysis (deg c)	NE	14.6	14.95	16.3	14.77	NA	NA	NA	NA	NA	13.18	12.41	13.97	14.46	14.51	15.79	14.58	NA	NA
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	NA	50 U	NA	NA	50 U	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3712 OU2MW-3712 12/8/2009	OU2MW-37D OU2MW-37D 1/8/2009	OU2MW-37D OU2MW-37D 3/25/2009	OU2MW-37D OU2MW-37D 4/16/2009	OU2MW-37D OU2MW-37D 5/12/2009	OU2MW-37D OU2MW-37D 6/17/2009	OU2MW-37D OU2MW-37D 7/8/2009	OU2MW-37D OU2MW-37D 8/11/2009	OU2MW-37D OU2MW-37D 9/17/2009	OU2MW-37D OU2MW-37D 10/21/2009	OU2MW-37D OU2MW-37D 11/16/2009	OU2MW-37D OU2MW-37D 12/8/2009	OU2MW-38S OU2MW-38S 1/6/2009	OU2MW-38S OU2MW-38S 3/24/2009	OU2MW-38S OU2MW-38S 6/26/2009	OU2MW-38S OU2MW-38S 9/1/2009	OU2MW-38S OU2MW-38S 12/15/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	47.8 UJ	131 UJ	NA	NA	NA	9.2 UJ	NA	NA	78.8 UJ	NA	NA	113 UJ	46.4 UJ	NA	NA	NA	NA
Antimony	3	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	3.8 UJ	NA	NA	3.2 J	2.3 U	NA	NA	NA	NA
Arsenic	25	2.3 U	2.9 UJ	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	2.1 UJ	NA	NA	NA	NA
Barium	1000	84.8 J	67.3 J	NA	NA	NA	35.7 J	NA	NA	31.9 J	NA	NA	34.6 J	11.0 J	NA	NA	NA	NA
Beryllium	3*	0.26 U	0.88 UJ	NA	NA	NA	0.37 J	NA	NA	0.54 UJ	NA	NA	0.46 UJ	0.31 UJ	NA	NA	NA	NA
Cadmium	5	0.34 U	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	NA
Calcium	NE	11400	41100	NA	NA	NA	34200	NA	NA	32300	NA	NA	32300	42900	NA	NA	NA	NA
Chromium	50	0.44 UJ	2.0 J	NA	NA	NA	0.70 J	NA	NA	0.58 J	NA	NA	0.44 UJ	0.42 UJ	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	2.9 J	1.4 J	NA	NA	NA	1.8 J	NA	NA	2.2 J	NA	NA	2.5 J	1.2 J	NA	NA	NA	NA
Copper	200	1.0 J	2.7 J	NA	NA	NA	1.8 J	NA	NA	0.83 U	NA	NA	0.83 U	1.9 J	NA	NA	NA	NA
Iron	300	37.5 J	22200	NA	NA	NA	22300	NA	NA	24400	NA	NA	27300	144	NA	NA	NA	NA
Lead	25	2.0 J	1.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	1.8 U	1.3 UJ	NA	NA	NA	NA
Magnesium	35000*	2530 J	14900	NA	NA	NA	11300	NA	NA	10500	NA	NA	9800	6810	NA	NA	NA	NA
Manganese	300	1850	773	NA	NA	NA	865	NA	NA	749	NA	NA	808	176	NA	NA	NA	NA
Mercury	0.7	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA
Nickel	100	2.6 J	1.2 U	NA	NA	NA	2.3 J	NA	NA	1.4 U	NA	NA	2.3 J	1.2 U	NA	NA	NA	NA
Potassium	NE	5190	3220 J	NA	NA	NA	2910 J	NA	NA	2710 J	NA	NA	2690 J	2010 J	NA	NA	NA	NA
Selenium	10	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	3.6 UJ	NA	NA	NA	NA
Silver	50	0.83 U	0.89 J	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	0.54 U	NA	NA	NA	NA
Sodium	20000*	45200	108000	NA	NA	NA	93100	NA	NA	80100	NA	NA	73500	7970	NA	NA	NA	NA
Thallium	0.5*	3.2 U	2.8 J	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	2.6 UJ	NA	NA	NA	NA
Vanadium	NE	1.4 U	1.1 J	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.5 J	0.79 J	NA	NA	NA	NA
Zinc	2000*	50.9	83.8	NA	NA	NA	15.6 UJ	NA	NA	15.3 J	NA	NA	37.6	15.9 J	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-3712 OU2MW-3712 12/8/2009	OU2MW-37D OU2MW-37D 1/8/2009	OU2MW-37D OU2MW-37D 3/25/2009	OU2MW-37D OU2MW-37D 4/16/2009	OU2MW-37D OU2MW-37D 5/12/2009	OU2MW-37D OU2MW-37D 6/17/2009	OU2MW-37D OU2MW-37D 7/8/2009	OU2MW-37D OU2MW-37D 8/11/2009	OU2MW-37D OU2MW-37D 9/17/2009	OU2MW-37D OU2MW-37D 10/21/2009	OU2MW-37D OU2MW-37D 11/16/2009	OU2MW-37D OU2MW-37D 12/8/2009	OU2MW-38S OU2MW-38S 1/6/2009	OU2MW-38S OU2MW-38S 3/24/2009	OU2MW-38S OU2MW-38S 6/26/2009	OU2MW-38S OU2MW-38S 9/1/2009	OU2MW-38S OU2MW-38S 12/15/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Dioxide (ug/L)	NE	NA	NA	129000 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	86200 J	NA	NA	NA	
Conductivity (mS/cm)	NE	NA	NA	0.872	0.99	0.880	0.921	0.807	0.920	0.940	NA	NA	NA	NA	0.352	0.368	0.405	NA	
Dissolved Oxygen (mg/L)	NE	NA	NA	ND	ND	ND	ND	ND	3.0	ND	NA	NA	NA	NA	NA	4.03	ND	NA	
Nitrogen, Ammonia (ug/L)	2000	1470	100 U	NA	NA	NA	100 U	NA	NA	100 UJ	NA	NA	100 U	100 U	NA	NA	NA	NA	
Nitrogen, Nitrate (ug/L)	10000	3610	100 U	NA	NA	NA	130 J	NA	NA	100 U	NA	NA	2570	920	NA	NA	NA	NA	
Nitrogen, Nitrite (ug/L)	1000	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	
Nitrogen, Total (ug/L)	NE	5790	100 U	NA	NA	NA	130	NA	NA	100 U	NA	NA	2570	920	NA	NA	NA	NA	
Nitrogen, Total Kjeldahl (ug/L)	NE	2180	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	
Oxidation Reduction Potential (mV)	NE	NA	NA	93	122	140	122	112	-57	120	NA	NA	NA	NA	27	159	100	NA	
pH (S.U.)	NE	NA	NA	5.08	5.07	5.29	4.56	5.18	5.01	4.80	NA	NA	NA	NA	6.34	5.92	6.16	NA	
Standard Plate Count (cfu/ml)	NE	450	2700	NA	1055 J	240	200	NA	NA	50	NA	NA	4400	120	NA	NA	NA	NA	
Sulfate (ug/L)	250000	34700	396000	NA	NA	NA	322000	NA	NA	282000	NA	NA	302000	23400	NA	NA	NA	NA	
Sulfide (ug/L)	50*	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	
Temperature at Analysis (deg c)	NE	NA	NA	12.36	11.92	13.55	14.06	14.71	15.60	15.30	NA	NA	NA	NA	7.45	17.31	16.90	NA	
Total Phosphorous (ug/L)	NE	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	NA	

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-38D	OU2MW-38D	OU2MW-38D	OU2MW-38D	OU2MW-38D	OU2MW-39S	OU2MW-39S
		OU2MW-381 1/6/2009	OU2MW-381 3/24/2009	OU2MW-381 6/26/2009	DUP-11-Q2 6/26/2009	OU2MW-381 9/1/2009	OU2MW-381 12/15/2009	OU2MW-381 1/6/2009	OU2MW-381 3/24/2009	OU2MW-381 6/29/2009	OU2MW-381 9/1/2009	OU2MW-381 12/15/2009	OU2MW-381 1/5/2009	OU2MW-38D 3/24/2009	OU2MW-38D 6/29/2009	OU2MW-38D 9/1/2009	OU2MW-38D 12/15/2009	OU2MW-39S 1/9/2009	OU2MW-39S 3/17/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	140	82	53	54	19 J	8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	160	130	29	29	8 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl acetate	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	7959	2757	733	752	295	56	5	5	3	4	5	ND	ND	ND	ND	ND	ND	ND	ND
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	52	32	13	13	6	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	350	260	52	53	27	8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	12	11	2 J	1 J	2 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	3 J	3 J	1 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	63	59	16	16	10	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	240 J	270	8	6	2 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	2200	1500	110	90	9	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	67	62	2 J	3 J	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	5	5 J	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	2992	2202	206	185	61	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																				
Total PAHs	NE	2992	2202	206	185	61	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Appendix K
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381
		OU2MW-381	OU2MW-381	OU2MW-381	DUP-11-Q2	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381	OU2MW-381
		1/6/2009	3/24/2009	6/26/2009	6/26/2009	9/1/2009	12/15/2009	1/6/2009	3/24/2009	6/29/2009	9/1/2009	12/15/2009	1/5/2009	3/24/2009	6/29/2009	9/1/2009	12/15/2009	1/9/2009	3/17/2009	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	2992	2202	206	185	61	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	48.2 UJ	NA	NA	NA	NA	NA	50.4 UJ	NA	NA	NA	NA	71.9 UJ	NA	NA	NA	NA	191 UJ	NA	NA
Antimony	3	2.3 U	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 UJ	NA	NA
Arsenic	25	2.1 UJ	NA	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	2.1 UJ	NA	NA	NA	NA	2.5 UJ	NA	NA
Barium	1000	36.5 J	NA	NA	NA	NA	NA	34.8 J	NA	NA	NA	NA	62.7 J	NA	NA	NA	NA	19.9 J	NA	NA
Beryllium	3*	0.28 UJ	NA	NA	NA	NA	NA	0.26 UJ	NA	NA	NA	NA	0.30 UJ	NA	NA	NA	NA	0.20 UJ	NA	NA
Cadmium	5	0.35 U	NA	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	0.35 U	NA	NA
Calcium	NE	41000	NA	NA	NA	NA	NA	16000	NA	NA	NA	NA	20500	NA	NA	NA	NA	11100	NA	NA
Chromium	50	0.69 UJ	NA	NA	NA	NA	NA	0.41 U	NA	NA	NA	NA	1.7 UJ	NA	NA	NA	NA	1.0 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	2.2 J	NA	NA	NA	NA	NA	0.88 U	NA	NA	NA	NA	2.2 J	NA	NA	NA	NA	0.88 U	NA	NA
Copper	200	0.65 UJ	NA	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	0.65 UJ	NA	NA	NA	NA	2.6 J	NA	NA
Iron	300	5130	NA	NA	NA	NA	NA	56.8 J	NA	NA	NA	NA	10600	NA	NA	NA	NA	4200	NA	NA
Lead	25	1.3 UJ	NA	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	1.3 UJ	NA	NA	NA	NA	5.1	NA	NA
Magnesium	35000*	6560	NA	NA	NA	NA	NA	6680	NA	NA	NA	NA	7700	NA	NA	NA	NA	2830 J	NA	NA
Manganese	300	2820	NA	NA	NA	NA	NA	565	NA	NA	NA	NA	276	NA	NA	NA	NA	125	NA	NA
Mercury	0.7	0.10 U	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA
Nickel	100	1.2 U	NA	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	8.9 J	NA	NA
Potassium	NE	4310 J	NA	NA	NA	NA	NA	2850 J	NA	NA	NA	NA	1860 J	NA	NA	NA	NA	1520 J	NA	NA
Selenium	10	2.1 UJ	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	1.9 U	NA	NA
Silver	50	0.54 U	NA	NA	NA	NA	NA	0.54 U	NA	NA	NA	NA	0.54 U	NA	NA	NA	NA	0.54 U	NA	NA
Sodium	20000*	48500	NA	NA	NA	NA	NA	26700	NA	NA	NA	NA	52600	NA	NA	NA	NA	9030	NA	NA
Thallium	0.5*	3.3 UJ	NA	NA	NA	NA	NA	2.0 UJ	NA	NA	NA	NA	2.6 UJ	NA	NA	NA	NA	1.9 U	NA	NA
Vanadium	NE	0.74 U	NA	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.74 U	NA	NA	NA	NA	0.87 J	NA	NA
Zinc	2000*	4.0 UJ	NA	NA	NA	NA	NA	8.0 UJ	NA	NA	NA	NA	11.0 J	NA	NA	NA	NA	83.8 J	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-381 OU2MW-381 1/6/2009	OU2MW-381 OU2MW-381 3/24/2009	OU2MW-381 OU2MW-381 6/26/2009	OU2MW-381 DUP-11-Q2 6/26/2009	OU2MW-381 OU2MW-381 9/1/2009	OU2MW-381 OU2MW-381 12/15/2009	OU2MW-3812 OU2MW-3812 1/6/2009	OU2MW-3812 OU2MW-3812 3/24/2009	OU2MW-3812 OU2MW-3812 6/29/2009	OU2MW-3812 OU2MW-3812 9/1/2009	OU2MW-3812 OU2MW-3812 12/15/2009	OU2MW-38D OU2MW-38D 1/5/2009	OU2MW-38D OU2MW-38D 3/24/2009	OU2MW-38D OU2MW-38D 6/29/2009	OU2MW-38D OU2MW-38D 9/1/2009	OU2MW-38D OU2MW-38D 12/15/2009	OU2MW-39S OU2MW-39S 1/9/2009	OU2MW-39S OU2MW-39S 3/17/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	81800 J	NA	NA	NA	NA	NA	43100 J	NA	NA	NA	NA	49300 J	NA	NA	NA	NA	56300 J
Conductivity (mS/cm)	NE	NA	0.458	0.49	NA	0.614	NA	NA	0.289	0.268	0.371	NA	NA	0.434	0.351	0.310	NA	NA	0.211
Dissolved Oxygen (mg/L)	NE	NA	ND	9.51	NA	20	NA	NA	ND	8.45	ND	NA	NA	ND	8.48	ND	NA	NA	1.8
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	NA	NA	210	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	NA	NA	NA	2880	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	400	NA	NA	NA	NA	NA	3180	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	400	NA	NA	NA	NA	NA	300 J	NA	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA
Oxidation Reduction Potential (mV)	NE	NA	-4	37	NA	65	NA	NA	213	231	239	NA	NA	90	76	89	NA	NA	147
pH (S.U.)	NE	NA	6.35	5.7	NA	6.11	NA	NA	5.33	4.75	5.29	NA	NA	5.24	5.94	5.31	NA	NA	5.67
Standard Plate Count (cfu/ml)	NE	280	NA	NA	NA	NA	NA	240	NA	NA	NA	NA	NA	230	NA	NA	NA	NA	23000
Sulfate (ug/L)	250000	18700	NA	NA	NA	NA	NA	31900	NA	NA	NA	NA	NA	195000	NA	NA	NA	NA	25600
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	11.58	16.33	NA	14.74	NA	NA	10.29	13.9	14.63	NA	NA	11.24	14.4	14.38	NA	NA	9.15
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I
		OU2MW-39S 4/14/2009	OU2MW-39S 5/12/2009	OU2MW-39S 6/16/2009	OU2MW-39S 7/7/2009	OU2MW-39S 8/11/2009	OU2MW-39S 9/14/2009	OU2MW-39S 10/20/2009	OU2MW-39S 11/16/2009	OU2MW-39S 12/14/2009	OU2MW-39I 1/9/2009	OU2MW-39I 3/17/2009	OU2MW-39I 4/14/2009	OU2MW-39I 5/12/2009	OU2MW-39I 6/16/2009	OU2MW-39I 7/7/2009	OU2MW-39I 8/11/2009	OU2MW-39I 9/14/2009	OU2MW-39I 10/20/2009	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	4	3	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	50.2 UJ	40.0 UJ	NA	NA	NA	9.2 UJ	NA	NA	26.2 UJ	NA	NA
Antimony	3	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.2 UJ	NA	NA
Arsenic	25	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	3.1 UJ	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA
Barium	1000	NA	NA	10 J	NA	NA	8.2 J	NA	NA	10.6 J	47.8 J	NA	NA	NA	66.9 J	NA	NA	85.6 J	NA	NA
Beryllium	3*	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	0.26 U	0.14 UJ	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA
Cadmium	5	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA
Calcium	NE	NA	NA	40100	NA	NA	25100	NA	NA	30200	29400	NA	NA	NA	37800	NA	NA	57900	NA	NA
Chromium	50	NA	NA	0.68 J	NA	NA	0.46 J	NA	NA	0.44 UJ	0.41 U	NA	NA	NA	0.90 J	NA	NA	0.44 U	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	1.2 U	NA	NA	1.2 U	NA	NA	1.2 U	2.6 J	NA	NA	NA	1.2 U	NA	NA	1.2 U	NA	NA
Copper	200	NA	NA	3.6 J	NA	NA	2.7 J	NA	NA	4.3 J	1.8 J	NA	NA	NA	5.6 J	NA	NA	3.3 J	NA	NA
Iron	300	NA	NA	19.4 UJ	NA	NA	25.0 J	NA	NA	54.1 J	8020	NA	NA	NA	589	NA	NA	101	NA	NA
Lead	25	NA	NA	1.5 U	NA	NA	1.8 U	1.5 U	NA	1.8 U	1.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA
Magnesium	35000*	NA	NA	5880	NA	NA	3740 J	NA	NA	3950 J	4570 J	NA	NA	NA	6230	NA	NA	10700	NA	NA
Manganese	300	NA	NA	13.2 J	NA	NA	7.8 J	NA	NA	8.5 J	2000	NA	NA	NA	645	NA	NA	656	NA	NA
Mercury	0.7	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA
Nickel	100	NA	NA	2.3 J	NA	NA	1.4 U	NA	NA	1.4 U	1.2 U	NA	NA	NA	3.5 J	NA	NA	1.7 J	NA	NA
Potassium	NE	NA	NA	2490 J	NA	NA	2870 J	NA	NA	3430 J	4690 J	NA	NA	NA	6480	NA	NA	6790	NA	NA
Selenium	10	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA
Silver	50	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	1.0 J	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA
Sodium	20000*	NA	NA	12500	NA	NA	59000	NA	NA	18700	65500	NA	NA	NA	74400	NA	NA	92600	NA	NA
Thallium	0.5*	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA
Vanadium	NE	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	0.82 J	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA
Zinc	2000*	NA	NA	15.8 UJ	NA	NA	17.7 J	NA	NA	81.8	71.4 J	NA	NA	NA	20.7	NA	NA	14.8 J	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39S 4/14/2009	OU2MW-39S 5/12/2009	OU2MW-39S 6/16/2009	OU2MW-39S 7/7/2009	OU2MW-39S 8/11/2009	OU2MW-39S 9/14/2009	OU2MW-39S 10/20/2009	OU2MW-39S 11/16/2009	OU2MW-39S 12/14/2009	OU2MW-39I 1/9/2009	OU2MW-39I 3/17/2009	OU2MW-39I 4/14/2009	OU2MW-39I 5/12/2009	OU2MW-39I 6/16/2009	OU2MW-39I 7/7/2009	OU2MW-39I 8/11/2009	OU2MW-39I 9/14/2009	OU2MW-39I 10/20/2009	
Cyanides (ug/L)																				
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																				
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	106000 J	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.242	0.235	0.382	0.387	0.342	0.315	NA	NA	NA	NA	0.408	0.649	0.491	0.691	0.612	0.692	1.11	NA	
Dissolved Oxygen (mg/L)	NE	1.8	14.65	22	19.62	24	21	NA	NA	NA	NA	7.21	2.7	17.02	20	38	32	19.04	NA	
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	120	NA	NA	100 U	NA	
Nitrogen, Nitrate (ug/L)	10000	NA	NA	3610 J	NA	NA	4860	NA	NA	7910	100 U	NA	NA	NA	570 J	NA	NA	250	NA	
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	
Nitrogen, Total (ug/L)	NE	NA	NA	3610	NA	NA	4860	NA	NA	8320	200	NA	NA	NA	1000	NA	NA	390	NA	
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	100 U	NA	NA	100 U	NA	NA	410	200	NA	NA	NA	430	NA	NA	140	NA	
Oxidation Reduction Potential (mV)	NE	184	236	331	282	258	198	NA	NA	NA	NA	17	-20	87	325	306	245	198	NA	
pH (S.U.)	NE	6.03	5.57	5.68	6.09	5.85	5.79	NA	NA	NA	NA	7.49	6.39	5.71	5.74	5.94	5.83	5.89	NA	
Standard Plate Count (cfu/ml)	NE	7	41	19	NA	NA	40	NA	NA	45	4200	NA	3600	11000	4100	NA	NA	200	NA	
Sulfate (ug/L)	250000	NA	NA	17800	NA	NA	19200	NA	NA	18900	20900	NA	NA	NA	48200	NA	NA	105000	NA	
Sulfide (ug/L)	50*	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	
Temperature at Analysis (deg c)	NE	8.86	12.92	13.66	15.75	18.5	17.28	NA	NA	NA	NA	12.87	11.63	12.72	13.1	14.33	16.1	15.18	NA	
Total Phosphorous (ug/L)	NE	NA	NA	50 U	NA	NA	90	NA	NA	70	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39I OU2MW-39I 11/16/2009	OU2MW-39I OU2MW-39I 12/14/2009	OU2MW-39I2 OU2MW-39I2 1/9/2009	OU2MW-39I2 OU2MW-39I2 3/17/2009	OU2MW-39I2 OU2MW-39I2 4/14/2009	OU2MW-39I2 OU2MW-39I2 5/12/2009	OU2MW-39I2 OU2MW-39I2 6/16/2009	OU2MW-39I2 OU2MW-39I2 7/7/2009	OU2MW-39I2 OU2MW-39I2 8/11/2009	OU2MW-39I2 OU2MW-39I2 9/14/2009	OU2MW-39I2 OU2MW-39I2 10/20/2009	OU2MW-39I2 OU2MW-39I2 11/16/2009	OU2MW-39I2 OU2MW-39I2 12/14/2009	OU2MW-39D OU2MW-39D 1/9/2009	OU2MW-39D OU2MW-39D 3/17/2009	OU2MW-39D OU2MW-39D 4/14/2009	OU2MW-39D OU2MW-39D 5/12/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	1	NA	14	30	55	73	134	130	35	4	1	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	72.3 UJ	68.5 UJ	NA	NA	NA	9.2 UJ	NA	NA	26.4 UJ	NA	NA	167 J	1510	NA	NA	NA
Antimony	3	NA	2.1 U	2.3 U	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA
Arsenic	25	NA	2.3 U	1.8 U	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	2.1 UJ	NA	NA	NA
Barium	1000	NA	49.3 J	55.6 J	NA	NA	NA	48.1 J	NA	NA	57.0 J	NA	NA	65.4 J	30.6 J	NA	NA	NA
Beryllium	3*	NA	0.26 U	0.15 UJ	NA	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	0.26 U	0.27 UJ	NA	NA	NA
Cadmium	5	NA	0.34 U	0.35 U	NA	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.35 U	NA	NA	NA
Calcium	NE	NA	43900	22200	NA	NA	NA	15900	NA	NA	10600	NA	NA	16200	17200	NA	NA	NA
Chromium	50	NA	0.44 UJ	0.95 J	NA	NA	NA	0.76 J	NA	NA	0.44 U	NA	NA	0.44 UJ	3.8 J	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	1.2 U	2.0 J	NA	NA	NA	3.2 J	NA	NA	3.3 J	NA	NA	1.8 J	0.88 U	NA	NA	NA
Copper	200	NA	3.3 J	2.1 J	NA	NA	NA	2.2 J	NA	NA	1.7 J	NA	NA	1.9 J	5.3 J	NA	NA	NA
Iron	300	NA	81.5 J	5330	NA	NA	NA	7450	NA	NA	5070	NA	NA	2400	4900	NA	NA	NA
Lead	25	NA	1.8 U	1.3 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	1.8 U	21.4	NA	NA	NA
Magnesium	35000*	NA	6650	7840	NA	NA	NA	5530	NA	NA	3680 J	NA	NA	5800	3120 J	NA	NA	NA
Manganese	300	NA	246	490	NA	NA	NA	356	NA	NA	343	NA	NA	401	143	NA	NA	NA
Mercury	0.7	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA
Nickel	100	NA	1.4 U	1.4 J	NA	NA	NA	1.4 J	NA	NA	2.1 J	NA	NA	2.0 J	4.3 J	NA	NA	NA
Potassium	NE	NA	5300	1740 J	NA	NA	NA	1590 J	NA	NA	1930 J	NA	NA	2320 J	2860 J	NA	NA	NA
Selenium	10	NA	2.5 U	1.9 U	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	2.5 J	NA	NA	NA
Silver	50	NA	0.83 U	0.54 U	NA	NA	NA	0.60 U	NA	NA	0.83 U	NA	NA	0.83 U	0.54 U	NA	NA	NA
Sodium	20000*	NA	53600	42200	NA	NA	NA	33200	NA	NA	48400	NA	NA	45400	10400	NA	NA	NA
Thallium	0.5*	NA	3.2 U	1.9 U	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA
Vanadium	NE	NA	1.4 U	0.74 U	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	3.8 J	NA	NA	NA
Zinc	2000*	NA	97.2	65.7 J	NA	NA	NA	41.1	NA	NA	29.5	NA	NA	74.7	143 J	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39I OU2MW-39I 11/16/2009	OU2MW-39I OU2MW-39I 12/14/2009	OU2MW-39I2 OU2MW-39I2 1/9/2009	OU2MW-39I2 OU2MW-39I2 3/17/2009	OU2MW-39I2 OU2MW-39I2 4/14/2009	OU2MW-39I2 OU2MW-39I2 5/12/2009	OU2MW-39I2 OU2MW-39I2 6/16/2009	OU2MW-39I2 OU2MW-39I2 7/7/2009	OU2MW-39I2 OU2MW-39I2 8/11/2009	OU2MW-39I2 OU2MW-39I2 9/14/2009	OU2MW-39I2 OU2MW-39I2 10/20/2009	OU2MW-39I2 OU2MW-39I2 11/16/2009	OU2MW-39I2 OU2MW-39I2 12/14/2009	OU2MW-39D OU2MW-39D 1/9/2009	OU2MW-39D OU2MW-39D 3/17/2009	OU2MW-39D OU2MW-39D 4/14/2009	OU2MW-39D OU2MW-39D 5/12/2009
Cyanides (ug/L)																		
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																		
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	42200 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44000 J	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	0.233	0.342	0.351	0.327	0.383	0.573	0.487	NA	NA	NA	NA	0.133	0.138	0.186
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	ND	ND	ND	7.58	ND	2.84	ND	NA	NA	NA	NA	ND	ND	ND
Nitrogen, Ammonia (ug/L)	2000	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	140	100 U	NA	NA	NA	100 U	NA	NA	100	NA	NA	1560	100 U	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	420	100 U	NA	NA	NA	100 U	NA	NA	100	NA	NA	1560	1530	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	280	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	1530	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	128	135	211	170	168	106	208	NA	NA	NA	NA	38	60	129
pH (S.U.)	NE	NA	NA	NA	5.6	4.95	5.81	4.76	4.92	4.78	4.57	NA	NA	NA	NA	6.97	5.38	4.95
Standard Plate Count (cfu/ml)	NE	NA	54	1200	NA	54	33	1	NA	NA	6	NA	NA	38	20000	NA	730	960
Sulfate (ug/L)	250000	NA	65000	26900	NA	NA	NA	45700	NA	NA	39400	NA	NA	47000	26100	NA	NA	NA
Sulfide (ug/L)	50*	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	11.99	12.01	13.51	13.9	14.93	15.54	14.75	NA	NA	NA	NA	11.91	11.19	13.54
Total Phosphorous (ug/L)	NE	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA

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OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39D OU2MW-39D 6/16/2009	OU2MW-39D OU2MW-39D 7/7/2009	OU2MW-39D OU2MW-39D 8/11/2009	OU2MW-39D OU2MW-39D 9/14/2009	OU2MW-39D DUP-33NC 9/14/2009	OU2MW-39D OU2MW-39D 10/20/2009	OU2MW-39D OU2MW-39D 11/16/2009	OU2MW-39D OU2MW-39D 12/14/2009	OU2MW-40S OU2MW-40S 9/16/2008	OU2MW-40S OU2MW-40S 12/29/2008	OU2MW-40S OU2MW-40S 3/6/2009	OU2MW-40S OU2MW-40S 5/22/2009	OU2MW-40S DUP-SP 5/22/2009	OU2MW-40S OU2MW-40S 6/24/2009	OU2MW-40S OU2MW-40S 8/20/2009	OU2MW-40S OU2MW-40S 11/11/2009	OU2MW-40I OU2MW-40I 9/17/2008
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	165
Total Metals (ug/L)																		
Aluminum	NE	9.2 UJ	NA	NA	21.8 UJ	NA	NA	NA	97.8 UJ	37.2 UJ	NA	NA	NA	NA	NA	NA	NA	58.1 UJ
Antimony	3	2.7 U	NA	NA	2.6 UJ	NA	NA	NA	2.2 J	2.3 U	NA	NA	NA	NA	NA	NA	NA	2.3 U
Arsenic	25	2.8 U	NA	NA	2.3 U	NA	NA	NA	2.3 U	1.8 U	NA	NA	NA	NA	NA	NA	NA	1.8 U
Barium	1000	70.9 J	NA	NA	110 J	NA	NA	NA	97.9 J	23.0 J	NA	NA	NA	NA	NA	NA	NA	33.9 J
Beryllium	3*	0.29 J	NA	NA	0.64 UJ	NA	NA	NA	0.39 UJ	0.54 UJ	NA	NA	NA	NA	NA	NA	NA	0.51 UJ
Cadmium	5	0.23 U	NA	NA	0.34 U	NA	NA	NA	0.34 U	0.35 U	NA	NA	NA	NA	NA	NA	NA	0.35 U
Calcium	NE	26100	NA	NA	34500 J	NA	NA	NA	33600	28400	NA	NA	NA	NA	NA	NA	NA	29500
Chromium	50	0.88 J	NA	NA	0.81 J	NA	NA	NA	0.44 UJ	0.86 UJ	NA	NA	NA	NA	NA	NA	NA	1.2 UJ
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	NA	NA	1.2 J	NA	NA	NA	1.2 J	0.88 U	NA	NA	NA	NA	NA	NA	NA	1.7 J
Copper	200	2.6 J	NA	NA	0.83 U	NA	NA	NA	1.2 J	1.4 J	NA	NA	NA	NA	NA	NA	NA	0.65 U
Iron	300	17100	NA	NA	22900	NA	NA	NA	22100	30.0 J	NA	NA	NA	NA	NA	NA	NA	25600
Lead	25	1.5 U	NA	NA	1.8 U	NA	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA	NA	NA	NA	1.6 J
Magnesium	35000*	9760	NA	NA	13100	NA	NA	NA	12500	3990 J	NA	NA	NA	NA	NA	NA	NA	3910 J
Manganese	300	436	NA	NA	551	NA	NA	NA	508	35.9	NA	NA	NA	NA	NA	NA	NA	1930
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	0.13 U
Nickel	100	2.3 J	NA	NA	2.0 J	NA	NA	NA	2.6 J	1.2 U	NA	NA	NA	NA	NA	NA	NA	1.2 U
Potassium	NE	1820 J	NA	NA	2410 J	NA	NA	NA	2390 J	3020 J	NA	NA	NA	NA	NA	NA	NA	4740 J
Selenium	10	2.7 U	NA	NA	2.5 U	NA	NA	NA	2.5 U	1.9 U	NA	NA	NA	NA	NA	NA	NA	1.9 U
Silver	50	0.60 U	NA	NA	0.83 U	NA	NA	NA	0.83 U	0.78 UJ	NA	NA	NA	NA	NA	NA	NA	1.1 UJ
Sodium	20000*	37000	NA	NA	65000	NA	NA	NA	59600	40200	NA	NA	NA	NA	NA	NA	NA	44400
Thallium	0.5*	3.3 U	NA	NA	3.2 U	NA	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	NA	NA	NA	1.9 U
Vanadium	NE	0.97 U	NA	NA	1.5 J	NA	NA	NA	4.4 J	0.74 U	NA	NA	NA	NA	NA	NA	NA	0.76 J
Zinc	2000*	10.3 UJ	NA	NA	11.3 J	NA	NA	NA	35.3	11.0 J	NA	NA	NA	NA	NA	NA	NA	7.2 J

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-39D OU2MW-39D 6/16/2009	OU2MW-39D OU2MW-39D 7/7/2009	OU2MW-39D OU2MW-39D 8/11/2009	OU2MW-39D OU2MW-39D 9/14/2009	OU2MW-39D DUP-33NC 9/14/2009	OU2MW-39D OU2MW-39D 10/20/2009	OU2MW-39D OU2MW-39D 11/16/2009	OU2MW-39D OU2MW-39D 12/14/2009	OU2MW-40S OU2MW-40S 9/16/2008	OU2MW-40S OU2MW-40S 12/29/2008	OU2MW-40S OU2MW-40S 3/6/2009	OU2MW-40S OU2MW-40S 5/22/2009	OU2MW-40S DUP-SP 5/22/2009	OU2MW-40S OU2MW-40S 6/24/2009	OU2MW-40S OU2MW-40S 8/20/2009	OU2MW-40S OU2MW-40S 11/11/2009	OU2MW-40I OU2MW-40I 9/17/2008	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Conductivity (mS/cm)	NE	0.429	0.600	0.615	0.827	NA	NA	NA	NA	0.552	0.575	0.516	NA	0.759	0.578	NA	NA		
Dissolved Oxygen (mg/L)	NE	7.56	ND	2.98	ND	NA	NA	NA	NA	NA	ND	ND	15.8	NA	8.75	16.0	NA	NA	
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	100 U	NA	NA	NA	100 U	100 U	NA	NA	NA	NA	NA	NA	NA	362	
Nitrogen, Nitrate (ug/L)	10000	450 J	NA	NA	110	NA	NA	NA	100 U	1250	NA	NA	NA	NA	NA	NA	NA	100 U	
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	NA	NA	100 U	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	
Nitrogen, Total (ug/L)	NE	450	NA	NA	110	NA	NA	NA	220	1400	NA	NA	NA	NA	NA	NA	NA	600	
Nitrogen, Total Kjeldahl (ug/L)	NE	100 U	NA	NA	100 U	NA	NA	NA	220	110	NA	NA	NA	NA	NA	NA	NA	660	
Oxidation Reduction Potential (mV)	NE	78	87	-58	120	NA	NA	NA	NA	NA	125	29	80	NA	214	347	NA	NA	
pH (S.U.)	NE	5.11	5.30	5.14	4.97	NA	NA	NA	NA	NA	6.30	6.04	6.88	NA	5.61	6.16	NA	NA	
Standard Plate Count (cfu/ml)	NE	250	NA	NA	54	NA	NA	NA	150	820	NA	NA	NA	NA	NA	NA	NA	190	
Sulfate (ug/L)	250000	194000	NA	NA	260000	NA	NA	NA	270000	16800	NA	NA	NA	NA	NA	NA	NA	12400	
Sulfide (ug/L)	50*	2000 U	NA	NA	2000 UJ	NA	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	NA	NA	NA	1000 U	
Temperature at Analysis (deg c)	NE	13.2	14.82	16.23	14.62	NA	NA	NA	NA	NA	14.3	10.35	14.6	NA	17.01	21.2	NA	NA	
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	NA	NA	50 U	50 U	NA	NA	NA	NA	NA	NA	NA	50 U	

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-40I OU2MW-40I 12/29/2008	OU2MW-40I OU2MW-40I 3/6/2009	OU2MW-40I OU2MW-40I 5/22/2009	OU2MW-40I OU2MW-40I 6/24/2009	OU2MW-40I OU2MW-40I 8/20/2009	OU2MW-40I OU2MW-40I 11/11/2009	OU2MW-41S OU2MW-41S 9/15/2008	OU2MW-41S OU2MW-41S 12/8/2008	OU2MW-41S OU2MW-41S 12/28/2008	OU2MW-41S OU2MW-41S 12/29/2008	OU2MW-41S OU2MW-41S 3/5/2009	OU2MW-41S OU2MW-41S 3/6/2009	OU2MW-41S OU2MW-41S 5/22/2009	OU2MW-41S OU2MW-41S 6/24/2009	OU2MW-41S OU2MW-41S 8/20/2009	OU2MW-41S DUP-02SP 8/20/2009	OU2MW-41S OU2MW-41S 11/11/2009	OU2MW-41I OU2MW-41I 9/16/2008	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 UJ	10 U	10 U	
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Trichloroethene	5	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Trichlorofluoromethane	5	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 UJ	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	3 J	11	8	NA	10 U	10 U	10 U	10 U	NA	23	NA	5 J	10 U	NA	10 UJ	10 U	10 U	240	
Trimethylbenzene, 1,2,4-	5	30	59	33	NA	5	10 U	10 U	10 U	NA	26 J	NA	10 U	10 U	NA	10 UJ	10 U	10 UJ	340 J	
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	NA	10 U	10 UJ	10 UJ	10 UJ	NA	10 UJ	NA	10 U	10 UJ	NA	10 U	10 UJ	10 U	10 UJ	
Vinyl acetate	NE	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 UJ	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 UJ	10 U	
Vinyl chloride	2	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 U	NA	10 UJ	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Total VOCs	NE	114	430	262	NA	31	ND	1	5	NA	451	NA	112	ND	NA	ND	ND	ND	4639	
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	26	26	12	NA	8	3 J	10 U	10 U	NA	9	NA	10 U	10 U	NA	10 U	10 U	10 U	130 J	
Acenaphthylene	NE	45	55	32	NA	5	2 J	10 U	10 U	NA	4 J	NA	10 U	10 U	NA	10 U	10 U	10 U	100 J	
Anthracene	50*	2 J	2 J	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	7	
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Fluoranthene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	2 J	
Fluorene	50*	15	16	8	NA	5	4 J	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	47	
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	140 J	
Naphthalene	10*	3 J	38	10	NA	10 U	10 U	10 U	10 U	NA	130	NA	10 U	10 U	NA	10 U	10 U	10 U	1900	
Phenanthrene	50*	31	30	9	NA	7	7	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	44	
Pyrene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Total Non-carcinogenic PAHs	NE	122	167	71	NA	25	16	ND	ND	NA	143	NA	ND	ND	NA	ND	ND	ND	2370	
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Benzo[a]pyrene	ND	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Chrysene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	NE	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	
Total PAHs (ug/L)																				
Total PAHs	NE	122	167	71	NA	25	16	ND	ND	NA	143	NA	ND	ND	NA	ND	ND	ND	2370	
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	



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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41I
		12/29/2008	3/6/2009	5/22/2009	6/24/2009	8/20/2009	11/11/2009	9/15/2008	12/8/2008	12/28/2008	12/29/2008	3/5/2009	3/6/2009	5/22/2009	6/24/2009	8/20/2009	8/20/2009	11/11/2009	9/16/2008	
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	122	167	71	NA	25	16	NA	NA	NA	143	NA	NA	NA	NA	NA	NA	NA	NA	2370
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	NA	NA	NA	NA	83.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.5 UJ
Antimony	3	NA	NA	NA	NA	NA	NA	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7 UJ
Arsenic	25	NA	NA	NA	NA	NA	NA	1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.8 J
Barium	1000	NA	NA	NA	NA	NA	NA	16.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.9 J
Beryllium	3*	NA	NA	NA	NA	NA	NA	0.37 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.49 UJ
Cadmium	5	NA	NA	NA	NA	NA	NA	0.35 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.35 U
Calcium	NE	NA	NA	NA	NA	NA	NA	30100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44000
Chromium	50	NA	NA	NA	NA	NA	NA	0.90 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60 UJ
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	0.91 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 J
Copper	200	NA	NA	NA	NA	NA	NA	1.2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.65 UJ
Iron	300	NA	NA	NA	NA	NA	NA	332	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35600
Lead	25	NA	NA	NA	NA	NA	NA	1.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8 J
Magnesium	35000*	NA	NA	NA	NA	NA	NA	5900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6210
Manganese	300	NA	NA	NA	NA	NA	NA	64.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1050
Mercury	0.7	NA	NA	NA	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13 U
Nickel	100	NA	NA	NA	NA	NA	NA	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2 U
Potassium	NE	NA	NA	NA	NA	NA	NA	2670 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3740 J
Selenium	10	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U
Silver	50	NA	NA	NA	NA	NA	NA	0.69 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 UJ
Sodium	20000*	NA	NA	NA	NA	NA	NA	16800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54500
Thallium	0.5*	NA	NA	NA	NA	NA	NA	1.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9 U
Vanadium	NE	NA	NA	NA	NA	NA	NA	1.7 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 J
Zinc	2000*	NA	NA	NA	NA	NA	NA	12.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6 J

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-40I OU2MW-40I 12/29/2008	OU2MW-40I OU2MW-40I 3/6/2009	OU2MW-40I OU2MW-40I 5/22/2009	OU2MW-40I OU2MW-40I 6/24/2009	OU2MW-40I OU2MW-40I 8/20/2009	OU2MW-40I OU2MW-40I 11/11/2009	OU2MW-41S OU2MW-41S 9/15/2008	OU2MW-41S OU2MW-41S 12/8/2008	OU2MW-41S OU2MW-41S 12/28/2008	OU2MW-41S OU2MW-41S 12/29/2008	OU2MW-41S OU2MW-41S 3/5/2009	OU2MW-41S OU2MW-41S 3/6/2009	OU2MW-41S OU2MW-41S 5/22/2009	OU2MW-41S OU2MW-41S 6/24/2009	OU2MW-41S OU2MW-41S 8/20/2009	DUP-02SP 8/20/2009	OU2MW-41S OU2MW-41S 11/11/2009	OU2MW-41I OU2MW-41I 9/16/2008
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.528	0.716	0.723	0.586	0.676	NA	NA	0.430	0.366	NA	0.360	NA	0.424	0.524	0.490	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	0.79	4.24	NA	NA	ND	ND	NA	ND	NA	8	2.49	11.9	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	328
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	2650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	3000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	600
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	600
Oxidation Reduction Potential (mV)	NE	-130	-158	-118	-69	-72	NA	NA	16	11	NA	11	NA	49	137	345	NA	NA	NA
pH (S.U.)	NE	9.67	6.22	6.41	6.09	7.99	NA	NA	6.63	7.59	NA	6.13	NA	6.26	5.9	5.90	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	14900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9010
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000 U
Temperature at Analysis (deg c)	NE	15.1	12.96	13.5	15.73	19.01	NA	NA	14.3	14.1	NA	10.1	NA	14.3	17.08	21	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-411	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S
		12/8/2008	12/29/2008	3/6/2009	5/22/2009	6/24/2009	8/20/2009	11/11/2009	3/26/2009	4/15/2009	5/11/2009	6/15/2009	7/6/2009	8/11/2009	9/15/2009	10/19/2009	11/17/2009	12/7/2009	12/7/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	NA	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	310	340	300	140	NA	98	12	5 J	4 J	3 J	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	
Trimethylbenzene, 1,2,4-	5	540	730 J	680	190	NA	140	35	58	47	35	20	5	2 J	2 J	2 J	10 U	3 J	6
Trimethylpentane, 2,2,4-	NE	10 U	10 UJ	10 U	10 UJ	NA	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Vinyl acetate	NE	10 U	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Vinyl chloride	2	10 U	10 U	10 U	10 U	NA	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Total VOCs	NE	7483	9464	5993	1705	NA	1554	226	280	234	145	59	15	5	4	20	5	4	13
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	60	130 J	170 J	64	NA	25	7	13	12	16	10 U	10 U	3 J	3 J	10 U	3 J	2 J	10 U
Acenaphthylene	NE	250	260 J	120 J	37	NA	58	23	13	14	18	10 U	10 U	2 J	2 J	10 U	1 J	10 U	10 U
Anthracene	50*	9	11	8	3 J	NA	5 J	2 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Fluoranthene	50*	2 J	3 J	2 J	1 J	NA	2 J	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	47	54	54	22	NA	19	8	5	5	6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	470	360 J	78 J	8	NA	26	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	2900	3400	1500	390	NA	620	79 J	110	71	61	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U
Phenanthrene	50*	45	56	47	15	NA	19	7	4 J	5	6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	2 J	2 J	2 J	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	3785	4276	1981	540	NA	774	129	145	107	107	ND	ND	5	8	ND	4	2	ND
Carcinogenic PAHs (ug/L)																			
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	NE	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	3785	4276	1981	540	NA	774	129	ND	107	107	ND	ND	5	8	ND	4	2	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-41	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S	OU2MW-42S		
		12/8/2008	12/29/2008	3/6/2009	5/22/2009	6/24/2009	8/20/2009	11/11/2009	3/26/2009	4/15/2009	5/11/2009	6/15/2009	7/6/2009	8/11/2009	8/11/2009	9/15/2009	10/19/2009	11/17/2009	12/7/2009		
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total SVOCs	NE	3785	4276	1981	540	NA	774	129	NA	107	107	NA	NA	5	8	NA	4	2	NA	NA	
Total Metals (ug/L)																					
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	9.2 UJ	NA	NA	9.2 UJ	NA	NA	NA	17.7 U	NA	NA	NA	48.5 UJ	
Antimony	3	NA	NA	NA	NA	NA	NA	NA	2.7 U	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA	NA	NA	3.1 J	
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	2.8 U	NA	NA	5.4 J	NA	NA	NA	3.7 J	NA	NA	NA	2.3 U	
Barium	1000	NA	NA	NA	NA	NA	NA	NA	4.2 J	NA	NA	2.1 J	NA	NA	NA	3.1 J	NA	NA	NA	4.2 J	
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	0.16 U	NA	NA	0.16 U	NA	NA	NA	0.26 U	NA	NA	NA	0.26 U	
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	0.23 U	NA	NA	0.23 U	NA	NA	NA	0.34 U	NA	NA	NA	0.34 U	
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	41500	NA	NA	40700	NA	NA	NA	62700	NA	NA	NA	58400	
Chromium	50	NA	NA	NA	NA	NA	NA	NA	1.7 UJ	NA	NA	0.73 J	NA	NA	NA	0.44 U	NA	NA	NA	1.3 J	
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	2.9 J	NA	NA	2.2 J	NA	NA	NA	3.0 J	NA	NA	NA	2.2 J	
Copper	200	NA	NA	NA	NA	NA	NA	NA	3.0 J	NA	NA	3.7 J	NA	NA	NA	1.9 J	NA	NA	NA	2.8 J	
Iron	300	NA	NA	NA	NA	NA	NA	NA	17400	NA	NA	15900	NA	NA	NA	12800	NA	NA	NA	6600	
Lead	25	NA	NA	NA	NA	NA	NA	NA	1.7 UJ	NA	NA	1.5 U	NA	NA	NA	1.8 U	NA	NA	NA	2.0 J	
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	5050	NA	NA	5330	NA	NA	NA	7280	NA	NA	NA	7470	
Manganese	300	NA	NA	NA	NA	NA	NA	NA	210	NA	NA	162	NA	NA	NA	136	NA	NA	NA	104	
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	
Nickel	100	NA	NA	NA	NA	NA	NA	NA	3.1 J	NA	NA	3.0 J	NA	NA	NA	3.0 J	NA	NA	NA	2.9 J	
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	4410 J	NA	NA	3990 J	NA	NA	NA	5590	NA	NA	NA	6090	
Selenium	10	NA	NA	NA	NA	NA	NA	NA	2.7 UJ	NA	NA	2.7 U	NA	NA	NA	2.5 U	NA	NA	NA	2.5 U	
Silver	50	NA	NA	NA	NA	NA	NA	NA	0.60 U	NA	NA	0.60 U	NA	NA	NA	0.83 U	NA	NA	NA	0.83 U	
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	29600	NA	NA	32100	NA	NA	NA	45800	NA	NA	NA	57800	
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	3.3 U	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA	NA	NA	3.2 U	
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	2.7 J	NA	NA	3.2 J	NA	NA	NA	3.6 J	NA	NA	NA	3.7 J	
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	20.4 U	NA	NA	24.6	NA	NA	NA	19.3 J	NA	NA	NA	51.4	

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-41 OU2MW-41 12/8/2008	OU2MW-41 OU2MW-41 12/29/2008	OU2MW-41 OU2MW-41 3/6/2009	OU2MW-41 OU2MW-41 5/22/2009	OU2MW-41 OU2MW-41 6/24/2009	OU2MW-41 OU2MW-41 8/20/2009	OU2MW-41 OU2MW-41 11/11/2009	OU2MW-42S OU2MW-42S 3/26/2009	OU2MW-42S OU2MW-42S 4/15/2009	OU2MW-42S OU2MW-42S 5/11/2009	OU2MW-42S OU2MW-42S 6/15/2009	OU2MW-42S OU2MW-42S 7/6/2009	OU2MW-42S OU2MW-42S 8/11/2009	OU2MW-42S DUP-33NC 8/11/2009	OU2MW-42S OU2MW-42S 9/15/2009	OU2MW-42S OU2MW-42S 10/19/2009	OU2MW-42S OU2MW-42S 11/17/2009	OU2MW-42S OU2MW-42S 12/7/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	104000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.512	0.590	0.639	0.739	0.918	0.645	NA	NA	0.489	0.571	0.525	0.448	0.409	NA	0.823	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	4.01	6.99	NA	1.77	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	110	NA	NA	NA	100 U	NA	NA	100 U
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	790	NA	NA	670 J	NA	NA	NA	860	NA	NA	350
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	1430	NA	NA	1190	NA	NA	NA	1480	NA	NA	350
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	650 J	NA	NA	520	NA	NA	NA	620	NA	NA	100 U
Oxidation Reduction Potential (mV)	NE	-152	-130	-111	-126	-104	-118	NA	NA	-109	-78	-72	-61	-42	NA	-39	NA	NA	NA
pH (S.U.)	NE	7.93	9.60	6.42	6.56	6.86	8.36	NA	NA	6.53	6.57	6.79	6.40	6.15	NA	6.08	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	1040 J	300	210	5700	NA	NA	NA	150	NA	NA	700
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	24300	NA	NA	26300	NA	NA	NA	29600	NA	NA	39000
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	1000 U	NA	NA	2000 U	NA	NA	NA	2000 UJ	NA	NA	2000 UJ
Temperature at Analysis (deg c)	NE	14.1	15.2	12.1	13.7	14.52	17.36	NA	NA	9.44	11.24	13.53	14.45	16.83	NA	17.22	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	780	NA	NA	50 U	NA	NA	NA	710	NA	NA	450

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-42I OU2MW-42I 3/26/2009	OU2MW-42I OU2MW-42I 4/15/2009	OU2MW-42I OU2MW-42I 5/11/2009	OU2MW-42I OU2MW-42I 6/15/2009	OU2MW-42I OU2MW-42I 7/6/2009	OU2MW-42I OU2MW-42I 8/12/2009	OU2MW-42I OU2MW-42I 9/15/2009	OU2MW-42I OU2MW-42I 10/19/2009	OU2MW-42I OU2MW-42I 11/17/2009	OU2MW-42I OU2MW-42I 12/7/2009	OU2MW-42I2 OU2MW-42I2 3/26/2009	OU2MW-42I2 OU2MW-42I2 4/14/2009	OU2MW-42I2 OU2MW-42I2 4/15/2009	OU2MW-42I2 OU2MW-42I2 5/11/2009	OU2MW-42I2 OU2MW-42I2 6/16/2009	OU2MW-42I2 OU2MW-42I2 7/6/2009	OU2MW-42I2 OU2MW-42I2 8/12/2009	OU2MW-42I2 OU2MW-42I2 9/15/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	NA	10 U	10 U	10 U	10 UJ	10 UJ
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	7	2 J	10 U	2 J	10 U	93	76 J	4 J	10	7	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10	3 J	10 U	2 J	10 U	99	130 J	7	14	9	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	NA	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	117	30	20	40	31	761	1303	106	332	229	7	NA	7	8	5	4	4	6
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	3 J	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	4 J	10 U	1 J	10 U	10 U	1 J	10 U	10 U	2 J	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Fluoranthene	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	9	ND	2	ND	ND	1	ND	ND	2	ND	ND	NA	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																			
Benz[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	2	ND	ND	1	ND	ND	2	ND	ND	NA	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421	OU2MW-421
		3/26/2009	4/15/2009	5/11/2009	6/15/2009	7/6/2009	8/12/2009	9/15/2009	10/19/2009	11/17/2009	12/7/2009	3/26/2009	4/14/2009	4/15/2009	5/11/2009	6/16/2009	7/6/2009	8/12/2009	9/15/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	2	NA	NA	1	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	9.2 UJ	NA	NA	9.2 UJ	NA	NA	17.7 U	NA	NA	91.3 UJ	29.4 J	NA	NA	NA	9.2 UJ	NA	NA	17.7 U
Antimony	3	2.7 U	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	3.9 J	2.7 U	NA	NA	NA	2.7 U	NA	NA	2.1 U
Arsenic	25	2.8 U	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	2.8 U	NA	NA	NA	2.8 U	NA	NA	2.3 U
Barium	1000	29.7 J	NA	NA	18.0 J	NA	NA	34.6 J	NA	NA	29.7 J	21.5 J	NA	NA	NA	24.5 J	NA	NA	20.1 J
Beryllium	3*	0.16 U	NA	NA	0.16 U	NA	NA	0.26 U	NA	NA	0.78 UJ	0.16 U	NA	NA	NA	0.16 U	NA	NA	0.26 U
Cadmium	5	0.23 U	NA	NA	0.23 U	NA	NA	0.34 U	NA	NA	0.34 U	0.23 U	NA	NA	NA	0.26 UJ	NA	NA	0.34 U
Calcium	NE	89000	NA	NA	56300	NA	NA	73700	NA	NA	64900	17200	NA	NA	NA	13400	NA	NA	10100
Chromium	50	1.1 UJ	NA	NA	1.0 J	NA	NA	0.44 U	NA	NA	3.0 J	1.9 UJ	NA	NA	NA	0.96 J	NA	NA	0.65 J
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	4.8 J	NA	NA	1.2 U	NA	NA	1.2 J	NA	NA	2.6 J	8.8 J	NA	NA	NA	9.1 J	NA	NA	7.8 J
Copper	200	1.4 J	NA	NA	19.5 J	NA	NA	11.4 J	NA	NA	9.6 J	7.2 J	NA	NA	NA	17.3 J	NA	NA	1.3 J
Iron	300	5190	NA	NA	834	NA	NA	321	NA	NA	1370	708	NA	NA	NA	51.5 J	NA	NA	45.3 J
Lead	25	2.5 UJ	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	2.5 J	3.2 U	NA	NA	NA	1.5 U	NA	NA	1.8 U
Magnesium	35000*	10700	NA	NA	7480	NA	NA	9220	NA	NA	9070	4080 J	NA	NA	NA	3890 J	NA	NA	2980 J
Manganese	300	1560	NA	NA	679	NA	NA	720	NA	NA	491	3240	NA	NA	NA	2650	NA	NA	1970
Mercury	0.7	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U
Nickel	100	8.5 UJ	NA	NA	4.5 J	NA	NA	3.4 J	NA	NA	4.6 J	7.4 J	NA	NA	NA	6.1 J	NA	NA	3.8 J
Potassium	NE	4660 J	NA	NA	4000 J	NA	NA	4650 J	NA	NA	3960 J	2780 J	NA	NA	NA	2850 J	NA	NA	2710 J
Selenium	10	2.7 UJ	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	2.7 UJ	NA	NA	NA	2.7 U	NA	NA	2.5 U
Silver	50	0.60 U	NA	NA	0.75 J	NA	NA	0.83 U	NA	NA	0.83 U	0.68 J	NA	NA	NA	0.60 U	NA	NA	0.83 U
Sodium	20000*	44700	NA	NA	31900	NA	NA	90500	NA	NA	72700	35800	NA	NA	NA	37600	NA	NA	30400
Thallium	0.5*	3.3 U	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	3.3 U	NA	NA	NA	3.3 U	NA	NA	3.2 U
Vanadium	NE	0.97 U	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.4 U	0.97 U	NA	NA	NA	0.97 U	NA	NA	1.4 U
Zinc	2000*	13.2 UJ	NA	NA	6.5 UJ	NA	NA	10.7 J	NA	NA	54.3	50.9	NA	NA	NA	10.3 UJ	NA	NA	7.3 J

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-421 OU2MW-421 3/26/2009	OU2MW-421 OU2MW-421 4/15/2009	OU2MW-421 OU2MW-421 5/11/2009	OU2MW-421 OU2MW-421 6/15/2009	OU2MW-421 OU2MW-421 7/6/2009	OU2MW-421 OU2MW-421 8/12/2009	OU2MW-421 OU2MW-421 9/15/2009	OU2MW-421 OU2MW-421 10/19/2009	OU2MW-421 OU2MW-421 11/17/2009	OU2MW-421 OU2MW-421 12/7/2009	OU2MW-4212 OU2MW-4212 3/26/2009	OU2MW-4212 OU2MW-4212 4/14/2009	OU2MW-4212 OU2MW-4212 4/15/2009	OU2MW-4212 OU2MW-4212 5/11/2009	OU2MW-4212 OU2MW-4212 6/16/2009	OU2MW-4212 OU2MW-4212 7/6/2009	OU2MW-4212 OU2MW-4212 8/12/2009	OU2MW-4212 OU2MW-4212 9/15/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	141000	NA	NA	NA	NA	NA	NA	NA	NA	NA	50200	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.717	0.747	0.601	0.541	1.05	1.17	NA	NA	NA	NA	0.358	NA	0.382	0.39	0.314	0.331	0.327
Dissolved Oxygen (mg/L)	NE	NA	9.35	10.04	17.6	25	3.38	22	NA	NA	NA	NA	14.52	NA	26	32	37	23	35
Nitrogen, Ammonia (ug/L)	2000	670	NA	NA	300	NA	NA	100 U	NA	NA	100 U	250	NA	NA	NA	250	NA	NA	110
Nitrogen, Nitrate (ug/L)	10000	100 U	NA	NA	410 J	NA	NA	200	NA	NA	520	1190	NA	NA	NA	530 J	NA	NA	280
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	1270	NA	NA	1240	NA	NA	430	NA	NA	860	1620	NA	NA	NA	920	NA	NA	280
Nitrogen, Total Kjeldahl (ug/L)	NE	1270 J	NA	NA	830	NA	NA	230	NA	NA	340	440 J	NA	NA	NA	390	NA	NA	100 U
Oxidation Reduction Potential (mV)	NE	NA	2	64	101	122	-21	86	NA	NA	NA	NA	154	NA	255	299	287	302	219
pH (S.U.)	NE	NA	6.46	6.47	6.49	6.39	6.39	6.23	NA	NA	NA	NA	6.02	NA	5.93	5.48	5.63	5.21	5.37
Standard Plate Count (cfu/ml)	NE	74	94000 J	12000	2200	NA	NA	3400	NA	NA	4600	130	NA	2500	620	140	NA	NA	200
Sulfate (ug/L)	250000	34000	NA	NA	18800	NA	NA	91300	NA	NA	48500	18800	NA	NA	NA	19800	NA	NA	24300
Sulfide (ug/L)	50*	1000 U	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ
Temperature at Analysis (deg c)	NE	NA	12.20	12.02	13.66	14.43	15.66	14.90	NA	NA	NA	NA	11.9	NA	13.14	13.54	14.31	15.1	14.72
Total Phosphorous (ug/L)	NE	50 U	NA	NA	50 U	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-42I OU2MW-42I 10/13/2009	OU2MW-42I OU2MW-42I 11/17/2009	OU2MW-42I OU2MW-42I 12/8/2009	OU2MW-42D OU2MW-42D 3/26/2009	OU2MW-42D OU2MW-42D 4/14/2009	OU2MW-42D DUP-01A 4/14/2009	OU2MW-42D OU2MW-42D 5/11/2009	OU2MW-42D OU2MW-42D 6/16/2009	OU2MW-42D OU2MW-42D 7/6/2009	OU2MW-42D OU2MW-42D 8/11/2009	OU2MW-42D OU2MW-42D 9/15/2009	OU2MW-42D OU2MW-42D 10/13/2009	OU2MW-42D OU2MW-42D 11/17/2009	OU2MW-42D OU2MW-42D 12/8/2009	OU2MW-43S OU2MW-43S 11/12/2009	OU2MW-43S OU2MW-43S 12/16/2009	OU2MW-43I OU2MW-43I 11/12/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichlorofluoromethane	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11	13	27	31	13	48	33	120
Trimethylbenzene, 1,2,4-	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	21	33 J	55 J	39	14	110	120	170	
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	
Vinyl acetate	NE	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	
Vinyl chloride	2	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total VOCs	NE	2	5	6	5	29	30	5	ND	2	193	554	701	668	445	1282	1638	2711	
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J	2 J	75	41	71
Acenaphthylene	NE	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	3 J	13	20	21	110	48	61
Anthracene	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8	4 J	5 J	
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	2 J	
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2	1 J	38	19	19	
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10	25	16	4 J	58	2 J	64	
Naphthalene	10*	10 U	10 U	10 U	10 U	1 J	1 J	10 U	10 U	2 J	64	170	320	310	340	470	96	2400	
Phenanthrene	50*	10 U	10 U	10 U	10 U	2 J	2 J	1 J	1 J	1 J	2 J	2 J	3 J	5 J	5	51	9	22	
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	3 J	
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	4	3	1	1	3	67	185	363	355	373	814	219	2647	
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	ND	ND	4	3	1	1	3	67	185	363	355	373	817	219	2652	
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	2 J	
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	10 UJ	
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	3 J	
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	10 UJ	
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3 J	NA	10 U	
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U	
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U	
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	10 UJ	
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-42I2	OU2MW-42I2	OU2MW-42I2	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43S	OU2MW-43S	OU2MW-43I
		OU2MW-42I2 10/13/2009	OU2MW-42I2 11/17/2009	OU2MW-42I2 12/8/2009	OU2MW-42D 3/26/2009	OU2MW-42D 4/14/2009	DUP-01A 4/14/2009	OU2MW-42D 5/11/2009	OU2MW-42D 6/16/2009	OU2MW-42D 7/6/2009	OU2MW-42D 8/11/2009	OU2MW-42D 9/15/2009	OU2MW-42D 10/13/2009	OU2MW-42D 11/17/2009	OU2MW-42D 12/8/2009	OU2MW-43S 11/12/2009	OU2MW-43S 12/16/2009	OU2MW-43I 11/12/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	10 UJ
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 UJ	NA	10 UJ
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25 U	NA	25 U
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U
Total SVOCs	NE	NA	NA	NA	NA	4	3	1	1	3	67	185	363	355	373	817	219	2652
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	39.3 UJ	500 J	NA	NA	NA	1050	NA	NA	2850	NA	NA	4630	17.7 U	NA	17.7 U
Antimony	3	NA	NA	2.1 U	2.7 U	NA	NA	NA	2.7 U	NA	NA	2.1 U	NA	NA	2.1 U	2.1 U	NA	2.1 U
Arsenic	25	NA	NA	2.3 U	5.6 J	NA	NA	NA	2.8 U	NA	NA	2.3 U	NA	NA	2.3 U	9.3 J	NA	2.3 U
Barium	1000	NA	NA	27.1 J	64.3 J	NA	NA	NA	41.4 J	NA	NA	27.2 J	NA	NA	23.5 J	43.7 J	NA	22.2 J
Beryllium	3*	NA	NA	0.26 U	0.48 J	NA	NA	NA	1.0 J	NA	NA	1.4 UJ	NA	NA	3.5 J	0.26 U	NA	0.26 U
Cadmium	5	NA	NA	0.34 U	0.23 U	NA	NA	NA	0.28 UJ	NA	NA	0.34 U	NA	NA	0.34 U	0.34 U	NA	0.34 U
Calcium	NE	NA	NA	12000	33300	NA	NA	NA	57800	NA	NA	65000	NA	NA	67900	53800	NA	27200
Chromium	50	NA	NA	0.52 J	4.1 UJ	NA	NA	NA	2.1 J	NA	NA	2.0 J	NA	NA	1.4 J	0.45 J	NA	0.44 U
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	7.2 J	6.5 J	NA	NA	NA	9.2 J	NA	NA	14.0 J	NA	NA	18.8 J	1.2 U	NA	3.9 J
Copper	200	NA	NA	1.5 J	5.2 J	NA	NA	NA	24.3 J	NA	NA	31.7	NA	NA	68.2	1.5 J	NA	4.9 J
Iron	300	NA	NA	43.7 J	40900	NA	NA	NA	8180	NA	NA	11200	NA	NA	14200	29000	NA	5010
Lead	25	NA	NA	1.9 J	3.1 U	NA	NA	NA	1.5 U	NA	NA	1.8 U	NA	NA	3.9	1.8 U	NA	1.8 U
Magnesium	35000*	NA	NA	3230 J	11400	NA	NA	NA	21300	NA	NA	22700	NA	NA	23800	8750	NA	5240
Manganese	300	NA	NA	2680	1630	NA	NA	NA	2100	NA	NA	2790	NA	NA	2310	482	NA	1420
Mercury	0.7	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	0.10 U
Nickel	100	NA	NA	3.1 J	27.5 J	NA	NA	NA	39.7 J	NA	NA	36.0 J	NA	NA	84.2	3.1 J	NA	4.2 J
Potassium	NE	NA	NA	3180 J	2960 J	NA	NA	NA	4510 J	NA	NA	4660 J	NA	NA	4330 J	5750 J	NA	3770 J
Selenium	10	NA	NA	2.5 U	2.7 UJ	NA	NA	NA	2.7 U	NA	NA	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U
Silver	50	NA	NA	0.83 U	0.96 J	NA	NA	NA	0.86 J	NA	NA	0.83 U	NA	NA	0.83 U	0.83 U	NA	0.83 U
Sodium	20000*	NA	NA	41600	78700	NA	NA	NA	122000	NA	NA	148000	NA	NA	150000	63000	NA	54200
Thallium	0.5*	NA	NA	3.2 U	5.3 UJ	NA	NA	NA	3.3 U	NA	NA	3.2 U	NA	NA	3.2 U	3.3 UJ	NA	3.2 U
Vanadium	NE	NA	NA	1.4 U	7.9 J	NA	NA	NA	0.97 U	NA	NA	1.4 U	NA	NA	1.8 J	1.4 U	NA	1.4 U
Zinc	2000*	NA	NA	38.8	87.2	NA	NA	NA	38.5	NA	NA	77.4	NA	NA	104	17.0 J	NA	18.7 J

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-42I2 OU2MW-42I2 10/13/2009	OU2MW-42I2 OU2MW-42I2 11/17/2009	OU2MW-42I2 OU2MW-42I2 12/8/2009	OU2MW-42D OU2MW-42D 3/26/2009	OU2MW-42D OU2MW-42D 4/14/2009	OU2MW-42D DUP-01A 4/14/2009	OU2MW-42D OU2MW-42D 5/11/2009	OU2MW-42D OU2MW-42D 6/16/2009	OU2MW-42D OU2MW-42D 7/6/2009	OU2MW-42D OU2MW-42D 8/11/2009	OU2MW-42D OU2MW-42D 9/15/2009	OU2MW-42D OU2MW-42D 10/13/2009	OU2MW-42D OU2MW-42D 11/17/2009	OU2MW-42D OU2MW-42D 12/8/2009	OU2MW-43S OU2MW-43S 11/12/2009	OU2MW-43S OU2MW-43S 12/16/2009	OU2MW-43I OU2MW-43I 11/12/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	106000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	0.761	NA	1.01	1.31	1.43	1.66	1.71	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	34	NA	23	25	30	20	19.07	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	120	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	770	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	1910	100 U	NA	NA	NA	100 U	NA	NA	240	NA	NA	100 U	100 U	NA	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	100 U	NA	NA	NA	100 U	NA	NA	100 U	NA	NA	100 U	100 U	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	1910	470	NA	NA	NA	330	NA	NA	240	NA	NA	680	2040	NA	680	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	100 U	470 J	NA	NA	NA	330	NA	NA	100 U	NA	NA	680	2040	NA	680	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	154	NA	357	386	327	311	372	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NE	NA	NA	NA	NA	5.14	NA	4.24	4.09	3.95	3.97	3.33	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	1100	13000	620	NA	910	240	NA	NA	2900	NA	NA	1300	75	NA	430	NA
Sulfate (ug/L)	250000	NA	NA	21400	322000	NA	NA	NA	485000	NA	NA	606000	NA	NA	711000	19700	NA	5000 U	NA
Sulfide (ug/L)	50*	NA	NA	2000 UJ	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	NA	NA	2000 U	2000 U	NA	2000 U	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	11.29	NA	13.07	13.35	14.61	15.0	14.83	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	50 U	50 U	NA	NA	NA	50 U	NA	NA	50 U	NA	NA	50 UJ	50 U	NA	50 U	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-431 OU2MW-431 12/16/2009	OU2MW-4312 OU2MW-4312 11/12/2009	OU2MW-4312 DUP-111209 COOPER 11/12/2009	OU2MW-4312 OU2MW-4312 12/16/2009	OU2MW-43D OU2MW-43D 11/12/2009	OU2MW-43D OU2MW-43D 12/16/2009	OU2MW-44S OU2MW-44S 11/11/2009	OU2MW-44S OU2MW-44S 12/16/2009	OU2MW-44I OU2MW-44I 11/11/2009	OU2MW-44I OU2MW-44I 12/16/2009	OU2MW-44I2 OU2MW-44I2 11/11/2009	OU2MW-44I2 OU2MW-44I2 12/16/2009	OU2MW-44D OU2MW-44D 11/11/2009	OU2MW-44D OU2MW-44D 12/16/2009	OU2MW-45S OU2MW-45S 1/5/2009	OU2MW-45S DUP JC 1/5/2009	OU2MW-45S OU2MW-45S 1/28/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	98	530	240 J	290	69	62	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
Trimethylbenzene, 1,2,4-	5	99	510	470	470	110	110	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	43	43	29
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	6 J	2 J	7	4 J	10 U	10 U	10 UJ
Vinyl acetate	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U
Total VOCs	NE	767	7760	6900	8403	1776	1364	ND	7	4	4	6	6	9	9	186	185	123
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	60 J	25	25	26 J	18	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J	3 J
Acenaphthylene	NE	19 J	430 J	380 J	340 J	190	5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U
Anthracene	50*	10 UJ	12	11	10 J	3 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 UJ	2 J	2 J	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	8 J	69	68	76 J	35	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
Methylnaphthalene, 2-	NE	10 UJ	1400	1200	810 J	380	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	110 J	7800	6900	3800 J	1600	5 J	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	4 J
Phenanthrene	50*	10 UJ	78	76	64 J	33	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 UJ	2 J	2 J	2 J	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	197	9818	8664	5130	2259	14	ND	ND	ND	1	ND	ND	ND	ND	2	3	9
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																		
Total PAHs	NE	197	9835	8673	5130	2290	14	ND	ND	ND	1	ND	ND	ND	ND	2	3	ND
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Carbazole	NE	NA	9	9	NA	3 J	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dibenzofuran	NE	NA	8	10 U	NA	5 J	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Diethyl phthalate	50*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	10 U	10 U	NA	21	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-43I OU2MW-43I 12/16/2009	OU2MW-43I2 OU2MW-43I2 11/12/2009	OU2MW-43I2 DUP-111209 COOPER 11/12/2009	OU2MW-43I2 OU2MW-43I2 12/16/2009	OU2MW-43D OU2MW-43D 11/12/2009	OU2MW-43D OU2MW-43D 12/16/2009	OU2MW-44S OU2MW-44S 11/11/2009	OU2MW-44S OU2MW-44S 12/16/2009	OU2MW-44I OU2MW-44I 11/11/2009	OU2MW-44I OU2MW-44I 12/16/2009	OU2MW-44I2 OU2MW-44I2 11/11/2009	OU2MW-44I2 OU2MW-44I2 12/16/2009	OU2MW-44D OU2MW-44D 11/11/2009	OU2MW-44D OU2MW-44D 12/16/2009	OU2MW-45S OU2MW-45S 1/5/2009	OU2MW-45S DUP JC 1/5/2009	OU2MW-45S OU2MW-45S 1/28/2009
Hexachlorocyclopentadiene	5	NA	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	NA	NA	NA
Hexachloroethane	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Isophorone	50*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Methylphenol, 2-	1	NA	10 U	10 U	NA	2 J	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Methylphenol, 4-	1	NA	10 UJ	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	10 UJ	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Nitrobenzene	0.4	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Pentachlorophenol	1	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Phenol	1	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	25 U	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	25 U	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	NA	NA	NA
Total SVOCs	NE	197	9835	8673	5130	2290	14	ND	NA	ND	1	ND	NA	ND	NA	2	3	NA
Total Metals (ug/L)																		
Aluminum	NE	NA	17.7 U	NA	NA	88.3 U	NA	187 J	NA	47.1 J	NA	91.2 J	NA	930	NA	83.4 UJ	NA	NA
Antimony	3	NA	2.1 U	NA	NA	10.7 U	NA	2.1 U	NA	2.1 U	NA	2.1 U	NA	2.1 U	NA	2.3 U	NA	NA
Arsenic	25	NA	2.3 U	NA	NA	11.5 U	NA	2.3 U	NA	2.3 U	NA	2.3 U	NA	2.3 U	NA	2.2 J	NA	NA
Barium	1000	NA	47.3 J	NA	NA	60.1 J	NA	9.8 J	NA	13.7 J	NA	36.3 J	NA	51.3 J	NA	7.0 J	NA	NA
Beryllium	3*	NA	0.26 U	NA	NA	1.3 U	NA	0.26 U	NA	0.57 J	NA	0.26 U	NA	0.26 U	NA	0.22 UJ	NA	NA
Cadmium	5	NA	0.34 U	NA	NA	1.7 U	NA	0.34 U	NA	0.39 J	NA	0.34 U	NA	0.34 U	NA	0.37 J	NA	NA
Calcium	NE	NA	15800	NA	NA	63900	NA	21200	NA	18000	NA	23800	NA	14900	NA	18400	NA	NA
Chromium	50	NA	0.56 J	NA	NA	4.4 J	NA	1.2 J	NA	0.68 J	NA	1.8 J	NA	2.5 J	NA	0.46 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	24.0 J	NA	NA	17.1 J	NA	1.2 J	NA	1.2 U	NA	1.2 U	NA	4.2 J	NA	1.3 J	NA	NA
Copper	200	NA	80.8	NA	NA	4.1 U	NA	1.4 J	NA	1.3 J	NA	1.4 J	NA	1.3 J	NA	4.6 J	NA	NA
Iron	300	NA	734	NA	NA	40100	NA	2820	NA	421	NA	666	NA	4230	NA	12300	NA	NA
Lead	25	NA	1.8 U	NA	NA	34.0	NA	1.8 U	NA	1.8 U	NA	1.8 U	NA	4.2 J	NA	1.3 U	NA	NA
Magnesium	35000*	NA	2650 J	NA	NA	24100	NA	2540 J	NA	3340 J	NA	4570 J	NA	6300	NA	2680 J	NA	NA
Manganese	300	NA	1960	NA	NA	885	NA	129	NA	285	NA	9110	NA	860	NA	107	NA	NA
Mercury	0.7	NA	0.10 U	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
Nickel	100	NA	25.5 J	NA	NA	132 J	NA	1.4 U	NA	2.1 J	NA	1.8 J	NA	12.3 J	NA	1.2 U	NA	NA
Potassium	NE	NA	4930 J	NA	NA	4360 J	NA	4120 J	NA	2480 J	NA	3730 J	NA	3020 J	NA	1450 J	NA	NA
Selenium	10	NA	2.5 U	NA	NA	12.4 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	1.9 U	NA	NA
Silver	50	NA	0.83 U	NA	NA	4.1 U	NA	0.83 U	NA	0.83 U	NA	0.83 U	NA	0.83 U	NA	0.54 U	NA	NA
Sodium	20000*	NA	85600	NA	NA	249000	NA	18600	NA	18900	NA	48400	NA	44100	NA	14400	NA	NA
Thallium	0.5*	NA	3.2 U	NA	NA	16.0 U	NA	3.2 U	NA	3.2 U	NA	3.2 U	NA	3.2 U	NA	1.9 U	NA	NA
Vanadium	NE	NA	1.4 U	NA	NA	21.4 J	NA	1.4 U	NA	1.4 U	NA	1.4 U	NA	2.0 J	NA	1.9 J	NA	NA
Zinc	2000*	NA	14.9 J	NA	NA	172	NA	14.3 J	NA	8.0 J	NA	1.1 U	NA	21.8	NA	33.9	NA	NA

Appendix K
Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-43I OU2MW-43I 12/16/2009	OU2MW-43I2 OU2MW-43I2 11/12/2009	OU2MW-43I2 DUP-111209 COOPER 11/12/2009	OU2MW-43I2 OU2MW-43I2 12/16/2009	OU2MW-43D OU2MW-43D 11/12/2009	OU2MW-43D OU2MW-43D 12/16/2009	OU2MW-44S OU2MW-44S 11/11/2009	OU2MW-44S OU2MW-44S 12/16/2009	OU2MW-44I OU2MW-44I 11/11/2009	OU2MW-44I OU2MW-44I 12/16/2009	OU2MW-44I2 OU2MW-44I2 11/11/2009	OU2MW-44I2 OU2MW-44I2 12/16/2009	OU2MW-44D OU2MW-44D 11/11/2009	OU2MW-44D OU2MW-44D 12/16/2009	OU2MW-45S OU2MW-45S 1/5/2009	OU2MW-45S DUP JC 1/5/2009	OU2MW-45S OU2MW-45S 1/28/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	780	NA	NA	110	NA	100 U	NA	100 U	NA	100 U	NA	100 U	NA	100 U	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	100 U	NA	NA	100 U	NA	100 U	NA	3450	NA	100 U	NA	790	NA	410	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	NA	100 U	NA	100 U	NA	100 U	NA	100 U	NA	100 U	NA	100 U	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	2070	NA	NA	11800	NA	300	NA	3450	NA	260	NA	1260	NA	1000	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	2070	NA	NA	11800	NA	300	NA	100 U	NA	260	NA	470	NA	590	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	760	NA	NA	2100	NA	640	NA	700	NA	2800	NA	15000	NA	86	NA	NA	220
Sulfate (ug/L)	250000	NA	7030	NA	NA	693000	NA	21500	NA	18000	NA	18400	NA	37400	NA	11900	NA	NA	NA
Sulfide (ug/L)	50*	NA	2000 U	NA	NA	2000 U	NA	2000 UJ	NA	2000 UJ	NA	2000 UJ	NA	2000 UJ	NA	1000 U	NA	NA	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	50 U	NA	NA	50 U	NA	420	NA	50 U	NA	50 U	NA	50 U	NA	790	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45S OU2MW-45S 2/23/2009	OU2MW-45S OU2MW-45S 3/26/2009	OU2MW-45S OU2MW-45S 4/28/2009	OU2MW-45S OU2MW-45S 5/27/2009	OU2MW-45S OU2MW-45S 6/22/2009	OU2MW-45S OU2MW-45S 7/27/2009	OU2MW-45S OU2MW-45S 8/24/2009	OU2MW-45S OU2MW-45S 9/29/2009	OU2MW-45S OU2MW-45S 10/22/2009	OU2MW-45S OU2MW-45S 11/18/2009	OU2MW-45S OU2MW-45S 12/9/2009	OU2MW-45I OU2MW-45I 1/5/2009	OU2MW-45I OU2MW-45I 1/28/2009	OU2MW-45I OU2MW-45I 2/23/2009	OU2MW-45I OU2MW-45I 3/26/2009	OU2MW-45I OU2MW-45I 4/28/2009	OU2MW-45I OU2MW-45I 5/27/2009	OU2MW-45I DUP-JC 5/27/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Trimethylbenzene, 1,2,4-	5	5	9	8	7	5	10 U	2 J	66	120	100	73	2 J	6	10 U	10 U	12	9	9
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Total VOCs	NE	21	36	26	21	15	ND	4	133	417	358	260	7	32	6	1	25	19	17
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	7	10 U	9	4 J	1 J	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	2 J	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5	2 J	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	42	10 U	29	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	4 J	16	3 J	1 J	10 U	2 J	2 J	1 J
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	5	54	ND	45	30	8	1	ND	2	2	1
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	5	54	ND	45	30	ND	1	ND	2	2	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45S OU2MW-45S 2/23/2009	OU2MW-45S OU2MW-45S 3/26/2009	OU2MW-45S OU2MW-45S 4/28/2009	OU2MW-45S OU2MW-45S 5/27/2009	OU2MW-45S OU2MW-45S 6/22/2009	OU2MW-45S OU2MW-45S 7/27/2009	OU2MW-45S OU2MW-45S 8/24/2009	OU2MW-45S OU2MW-45S 9/29/2009	OU2MW-45S OU2MW-45S 10/22/2009	OU2MW-45S OU2MW-45S 11/18/2009	OU2MW-45S OU2MW-45S 12/9/2009	OU2MW-45I OU2MW-45I 1/5/2009	OU2MW-45I OU2MW-45I 1/28/2009	OU2MW-45I OU2MW-45I 2/23/2009	OU2MW-45I OU2MW-45I 3/26/2009	OU2MW-45I OU2MW-45I 4/28/2009	OU2MW-45I OU2MW-45I 5/27/2009	OU2MW-45I DUP-JC 5/27/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	5	54	NA	45	30	NA	1	NA	2	2	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	128 UJ	NA	NA	NA	129 J	NA	NA	54.2 UJ	28.1 UJ	NA	NA	NA	NA	75.5 UJ	NA
Antimony	3	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA	2.7 U	NA
Arsenic	25	NA	NA	NA	4.1 UJ	NA	NA	NA	2.3 U	NA	NA	4.6 J	9.1 J	NA	NA	NA	NA	4.2 UJ	NA
Barium	1000	NA	NA	NA	4.5 J	NA	NA	NA	4.2 J	NA	NA	4.9 J	22.5 J	NA	NA	NA	NA	18.2 J	NA
Beryllium	3*	NA	NA	NA	0.17 UJ	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.64 UJ	NA	NA	NA	NA	0.55 UJ	NA
Cadmium	5	NA	NA	NA	0.31 UJ	NA	NA	NA	0.34 UJ	NA	NA	0.34 U	0.97 J	NA	NA	NA	NA	0.57 UJ	NA
Calcium	NE	NA	NA	NA	17200	NA	NA	NA	24200	NA	NA	26600	28000	NA	NA	NA	NA	23200	NA
Chromium	50	NA	NA	NA	0.44 U	NA	NA	NA	0.64 J	NA	NA	0.44 UJ	0.75 J	NA	NA	NA	NA	0.77 J	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA	1.6 J	0.97 J	NA	NA	NA	NA	1.2 U	NA
Copper	200	NA	NA	NA	4.4 J	NA	NA	NA	1.6 J	NA	NA	3.7 J	2.5 J	NA	NA	NA	NA	1.2 U	NA
Iron	300	NA	NA	NA	1270	NA	NA	NA	7360	NA	NA	12600	22300	NA	NA	NA	NA	4500	NA
Lead	25	NA	NA	NA	1.5 U	NA	NA	NA	1.8 U	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA	1.5 U	NA
Magnesium	35000*	NA	NA	NA	2750 J	NA	NA	NA	3720 J	NA	NA	4000 J	4480 J	NA	NA	NA	NA	3800 J	NA
Manganese	300	NA	NA	NA	66.5	NA	NA	NA	151	NA	NA	186	584	NA	NA	NA	NA	520	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA
Nickel	100	NA	NA	NA	1.4 U	NA	NA	NA	1.4 U	NA	NA	1.5 UJ	1.2 U	NA	NA	NA	NA	1.4 U	NA
Potassium	NE	NA	NA	NA	1280 J	NA	NA	NA	2070 J	NA	NA	2520 J	3370 J	NA	NA	NA	NA	2880 J	NA
Selenium	10	NA	NA	NA	2.7 UJ	NA	NA	NA	2.5 U	NA	NA	2.5 UJ	2.9 UJ	NA	NA	NA	NA	2.7 UJ	NA
Silver	50	NA	NA	NA	0.60 U	NA	NA	NA	0.83 UJ	NA	NA	0.83 U	0.54 U	NA	NA	NA	NA	0.60 U	NA
Sodium	20000*	NA	NA	NA	10100	NA	NA	NA	14300 J	NA	NA	30100	49800	NA	NA	NA	NA	41500	NA
Thallium	0.5*	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	3.3 U	NA
Vanadium	NE	NA	NA	NA	3.1 J	NA	NA	NA	1.4 U	NA	NA	3.8 UJ	1.1 J	NA	NA	NA	NA	0.97 U	NA
Zinc	2000*	NA	NA	NA	49.3	NA	NA	NA	18.7 J	NA	NA	41.1	4.6 J	NA	NA	NA	NA	33.7	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45S OU2MW-45S 2/23/2009	OU2MW-45S OU2MW-45S 3/26/2009	OU2MW-45S OU2MW-45S 4/28/2009	OU2MW-45S OU2MW-45S 5/27/2009	OU2MW-45S OU2MW-45S 6/22/2009	OU2MW-45S OU2MW-45S 7/27/2009	OU2MW-45S OU2MW-45S 8/24/2009	OU2MW-45S OU2MW-45S 9/29/2009	OU2MW-45S OU2MW-45S 10/22/2009	OU2MW-45S OU2MW-45S 11/18/2009	OU2MW-45S OU2MW-45S 12/9/2009	OU2MW-45I OU2MW-45I 1/5/2009	OU2MW-45I OU2MW-45I 1/28/2009	OU2MW-45I OU2MW-45I 2/23/2009	OU2MW-45I OU2MW-45I 3/26/2009	OU2MW-45I OU2MW-45I 4/28/2009	OU2MW-45I OU2MW-45I 5/27/2009	OU2MW-45I DUP-JC 5/27/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.176	0.245	0.207	0.182	0.16	0.198	0.166	0.326	NA	NA	NA	0.462	0.493	0.423	0.509	0.436	0.378	NA
Dissolved Oxygen (mg/L)	NE	9.1	10.7	9.1	9.58	5.19	5.94	6.6	3.75	NA	NA	NA	ND	6.6	21	20	16.2	16.15	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	120	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	420 J	NA	NA	NA	230	NA	NA	100	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	780	NA	NA	NA	760	NA	NA	750	320	NA	NA	NA	NA	250	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	360	NA	NA	NA	530	NA	NA	650	320	NA	NA	NA	NA	250	NA
Oxidation Reduction Potential (mV)	NE	46	44	66	51	99	120	36	-19	NA	NA	NA	-105	-36	27	20	18	38	NA
pH (S.U.)	NE	5.91	5.54	6.07	6.17	5.74	5.58	6.26	5.97	NA	NA	NA	6.56	6.05	6.06	5.73	6.33	6.37	NA
Standard Plate Count (cfu/ml)	NE	1200	270	NA	1000	95	NA	NA	520	NA	NA	1000	20	260	700	86	NA	240	NA
Sulfate (ug/L)	250000	NA	NA	NA	13700	NA	NA	NA	7860	NA	NA	7560	20000	NA	NA	NA	NA	15800	NA
Sulfide (ug/L)	50*	NA	NA	NA	1000 U	NA	NA	NA	2000 UJ	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	1000 U	NA
Temperature at Analysis (deg c)	NE	9.3	9.28	11.9	12.12	13.91	16.8	16.9	16.09	NA	NA	NA	13.1	10.51	11.8	11.77	13.4	12.56	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	100	NA	NA	NA	330	NA	NA	270	50 U	NA	NA	NA	NA	50 U	NA

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Analytical Groundwater Data Summary
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Table with columns: Location Code, Sample Name, Sample Date, NYS AWQS, and 20 monitoring wells (OU2MW-45I 6/22/2009 through OU2MW-45I2 7/28/2009). Rows include BTEX (ug/L) and Other VOCs (ug/L) for various compounds like Benzene, Toluene, Ethylbenzene, etc.



Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2
		OU2MW-45I 6/22/2009	OU2MW-45I 7/27/2009	OU2MW-45I 8/24/2009	OU2MW-45I 9/29/2009	OU2MW-45I 10/22/2009	OU2MW-45I 10/22/2009	DUP-BSJC 10/22/2009	OU2MW-45I 11/18/2009	DUP-BSJC 11/18/2009	OU2MW-45I 12/9/2009	DUP-BSJC 12/9/2009	OU2MW-45I2 1/6/2009	OU2MW-45I2 1/28/2009	OU2MW-45I2 2/23/2009	OU2MW-45I2 3/26/2009	OU2MW-45I2 4/28/2009	OU2MW-45I2 5/27/2009	OU2MW-45I2 6/22/2009	OU2MW-45I2 7/28/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	4 J	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Trimethylbenzene, 1,2,4-	5	19	89	10	10 U	10 U	10 UJ	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	25 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	52	259	28	1	ND	ND	ND	ND	3	25	45	14	21	19	24	24	23	16	
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	34	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	3 J	21	4 J	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	2 J	10 U	1 J	1 J	10 U	10 U	2 J	2 J	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	5	23	5	1	ND	ND	2	2	2	2	39	7	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																				
Total PAHs	NE	5	23	5	1	ND	ND	2	2	2	2	39	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-451 OU2MW-451 6/22/2009	OU2MW-451 OU2MW-451 7/27/2009	OU2MW-451 OU2MW-451 8/24/2009	OU2MW-451 OU2MW-451 9/29/2009	OU2MW-451 OU2MW-451 10/22/2009	OU2MW-451 DUP-BSJC 10/22/2009	OU2MW-451 OU2MW-451 11/18/2009	OU2MW-451 DUP-BSJC 11/18/2009	OU2MW-451 OU2MW-451 12/9/2009	OU2MW-451 DUP-BSJC 12/9/2009	OU2MW-4512 OU2MW-4512 1/6/2009	OU2MW-4512 OU2MW-4512 1/28/2009	OU2MW-4512 OU2MW-4512 2/23/2009	OU2MW-4512 OU2MW-4512 3/26/2009	OU2MW-4512 OU2MW-4512 4/28/2009	OU2MW-4512 OU2MW-4512 5/27/2009	OU2MW-4512 OU2MW-4512 6/22/2009	OU2MW-4512 OU2MW-4512 7/28/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	5	23	5	1	NA	NA	2	2	2	2	39	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	20.1 UJ	NA	NA	NA	NA	22.3 UJ	NA	88.6 UJ	NA	NA	NA	NA	67.2 UJ	NA	NA
Antimony	3	NA	NA	NA	2.1 U	NA	NA	NA	NA	2.5 J	NA	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA
Arsenic	25	NA	NA	NA	2.3 U	NA	NA	NA	NA	2.3 U	NA	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA
Barium	1000	NA	NA	NA	24.3 J	NA	NA	NA	NA	26.4 J	NA	47.3 J	NA	NA	NA	NA	34.4 J	NA	NA
Beryllium	3*	NA	NA	NA	0.26 U	NA	NA	NA	NA	0.26 U	NA	0.14 UJ	NA	NA	NA	NA	0.26 UJ	NA	NA
Cadmium	5	NA	NA	NA	0.34 UJ	NA	NA	NA	NA	0.34 U	NA	0.35 U	NA	NA	NA	NA	0.41 UJ	NA	NA
Calcium	NE	NA	NA	NA	21200	NA	NA	NA	NA	25300	NA	19000	NA	NA	NA	NA	19100	NA	NA
Chromium	50	NA	NA	NA	0.44 U	NA	NA	NA	NA	0.44 UJ	NA	0.60 J	NA	NA	NA	NA	0.88 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	1.2 U	NA	NA	NA	NA	1.2 U	NA	0.90 J	NA	NA	NA	NA	1.2 U	NA	NA
Copper	200	NA	NA	NA	0.83 U	NA	NA	NA	NA	3.2 J	NA	1.5 J	NA	NA	NA	NA	1.5 J	NA	NA
Iron	300	NA	NA	NA	4340	NA	NA	NA	NA	7070	NA	125	NA	NA	NA	NA	34.4 J	NA	NA
Lead	25	NA	NA	NA	1.8 U	NA	NA	NA	NA	1.8 U	NA	1.3 U	NA	NA	NA	NA	1.5 U	NA	NA
Magnesium	35000*	NA	NA	NA	3020 J	NA	NA	NA	NA	4150 J	NA	3610 J	NA	NA	NA	NA	3810 J	NA	NA
Manganese	300	NA	NA	NA	642	NA	NA	NA	NA	514	NA	9860	NA	NA	NA	NA	9620	NA	NA
Mercury	0.7	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA
Nickel	100	NA	NA	NA	1.4 U	NA	NA	NA	NA	2.2 UJ	NA	1.2 U	NA	NA	NA	NA	1.4 U	NA	NA
Potassium	NE	NA	NA	NA	4960 J	NA	NA	NA	NA	4750 J	NA	2960 J	NA	NA	NA	NA	2460 J	NA	NA
Selenium	10	NA	NA	NA	2.5 U	NA	NA	NA	NA	2.5 UJ	NA	2.4 UJ	NA	NA	NA	NA	2.7 UJ	NA	NA
Silver	50	NA	NA	NA	0.83 UJ	NA	NA	NA	NA	0.83 U	NA	2.0 J	NA	NA	NA	NA	1.4 J	NA	NA
Sodium	20000*	NA	NA	NA	36900 J	NA	NA	NA	NA	47000	NA	50200	NA	NA	NA	NA	31600	NA	NA
Thallium	0.5*	NA	NA	NA	3.2 U	NA	NA	NA	NA	3.2 U	NA	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA
Vanadium	NE	NA	NA	NA	1.4 U	NA	NA	NA	NA	1.4 U	NA	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA
Zinc	2000*	NA	NA	NA	74.5 J	NA	NA	NA	NA	29.8	NA	20.5	NA	NA	NA	NA	1.9 J	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45I OU2MW-45I 6/22/2009	OU2MW-45I OU2MW-45I 7/27/2009	OU2MW-45I OU2MW-45I 8/24/2009	OU2MW-45I OU2MW-45I 9/29/2009	OU2MW-45I OU2MW-45I 10/22/2009	OU2MW-45I DUP-BSJC 10/22/2009	OU2MW-45I OU2MW-45I 11/18/2009	OU2MW-45I DUP-BSJC 11/18/2009	OU2MW-45I OU2MW-45I 12/9/2009	OU2MW-45I DUP-BSJC 12/9/2009	OU2MW-45I2 OU2MW-45I2 1/6/2009	OU2MW-45I2 OU2MW-45I2 1/28/2009	OU2MW-45I2 OU2MW-45I2 2/23/2009	OU2MW-45I2 OU2MW-45I2 3/26/2009	OU2MW-45I2 OU2MW-45I2 4/28/2009	OU2MW-45I2 OU2MW-45I2 5/27/2009	OU2MW-45I2 OU2MW-45I2 6/22/2009	OU2MW-45I2 OU2MW-45I2 7/28/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.442	0.390	0.310	0.403	NA	NA	NA	NA	NA	NA	0.379	0.550	0.345	0.451	0.398	0.323	0.272	0.435
Dissolved Oxygen (mg/L)	NE	16.85	20	23	25	NA	NA	NA	NA	NA	NA	ND	9.4	28	20	26	19.1	26	25
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	360	NA	NA	NA	NA	160	NA	100 U	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	550	NA	NA	NA	NA	270 J	NA	590 J	NA	NA	NA	NA	410 J	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	100 U	NA	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	1360	NA	NA	NA	NA	750	NA	750	NA	NA	NA	NA	530	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	810	NA	NA	NA	NA	480	NA	160 J	NA	NA	NA	NA	130	NA	NA
Oxidation Reduction Potential (mV)	NE	76	71	63	43	NA	NA	NA	NA	NA	NA	107	162	98	160	171	133	99	180
pH (S.U.)	NE	4.54	5.81	6.10	5.90	NA	NA	NA	NA	NA	NA	6.18	6.37	6.17	5.79	6.28	6.23	6.17	5.05
Standard Plate Count (cfu/ml)	NE	220	NA	NA	960	NA	NA	NA	NA	290	NA	240	3400	620	250	NA	460	3800	NA
Sulfate (ug/L)	250000	NA	NA	NA	28600	NA	NA	NA	NA	23000	NA	25700	NA	NA	NA	NA	13100	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	2000 UJ	NA	NA	NA	NA	2000 UJ	NA	1000 U	NA	NA	NA	NA	1000 U	NA	NA
Temperature at Analysis (deg c)	NE	16.14	15.9	15.3	14.37	NA	NA	NA	NA	NA	NA	13.3	10.55	12	12.13	14.0	13.43	14.35	15.5
Total Phosphorous (ug/L)	NE	NA	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	50 U	NA	NA	NA	NA	50 U	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45I2	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D	OU2MW-45D
		OU2MW-45I2 8/24/2009	DUP-BSJC 8/24/2009	OU2MW-45I2 9/29/2009	OU2MW-45I2 10/23/2009	OU2MW-45I2 11/18/2009	OU2MW-45I2 12/9/2009	OU2MW-45D 1/6/2009	OU2MW-45D 1/28/2009	OU2MW-45D 2/23/2009	OU2MW-45D 3/26/2009	OU2MW-45D 4/28/2009	OU2MW-45D 5/27/2009	OU2MW-45D 6/22/2009	OU2MW-45D 7/28/2009	OU2MW-45D 8/24/2009	OU2MW-45D 9/29/2009	DUP- JC 9/29/2009	
BTEX (ug/L)																			
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/L)																			
Acetaldehyde	8*	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Acetone	50*	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U
Allyl chloride	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50*	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Butadiene, 1,3-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	R	R	10 U	10 U	R	R	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Butanone, 2-	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	60*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	2 J	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Chlorotoluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Cryofluorane	NE	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Decane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropane, 1,2-	1	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Dodecane, n-	NE	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Ethanol	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Hexachlorobutadiene	0.5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Hexanone, 2-	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	17 J	16 J	16 J	16	8	6	80	81	80 J	62	65	45	28	10	4 J	2 J	2 J	2 J
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	4 J	10 U	10 UJ	10 U	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	4 J	5 J	5 J
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Propanol, 2-	NE	R	R	R	R	R	R	500 U	500 U	500 UJ	R	R	R	R	R	R	R	R	R
Propylbenzene, n-	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Trans-1,2-dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Trichlorobenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45I2 OU2MW-45I2 8/24/2009	OU2MW-45I2 DUP-BSJC 8/24/2009	OU2MW-45I2 OU2MW-45I2 9/29/2009	OU2MW-45I2 OU2MW-45I2 10/23/2009	OU2MW-45I2 OU2MW-45I2 11/18/2009	OU2MW-45I2 OU2MW-45I2 12/9/2009	OU2MW-45D OU2MW-45D 1/6/2009	OU2MW-45D OU2MW-45D 1/28/2009	OU2MW-45D OU2MW-45D 2/23/2009	OU2MW-45D OU2MW-45D 3/26/2009	OU2MW-45D OU2MW-45D 4/28/2009	OU2MW-45D OU2MW-45D 5/27/2009	OU2MW-45D OU2MW-45D 6/22/2009	OU2MW-45D OU2MW-45D 7/28/2009	OU2MW-45D OU2MW-45D 8/24/2009	OU2MW-45D OU2MW-45D 9/29/2009	OU2MW-45D DUP- JC 9/29/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Vinyl acetate	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Total VOCs	NE	17	20	16	16	8	13	92	81	80	62	65	45	28	10	4	6	7
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	2
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																		
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	2
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45I2 OU2MW-45I2 8/24/2009	OU2MW-45I2 DUP-BSJC 8/24/2009	OU2MW-45I2 OU2MW-45I2 9/29/2009	OU2MW-45I2 OU2MW-45I2 10/23/2009	OU2MW-45I2 OU2MW-45I2 11/18/2009	OU2MW-45I2 OU2MW-45I2 12/9/2009	OU2MW-45D OU2MW-45D 1/6/2009	OU2MW-45D OU2MW-45D 1/28/2009	OU2MW-45D OU2MW-45D 2/23/2009	OU2MW-45D OU2MW-45D 3/26/2009	OU2MW-45D OU2MW-45D 4/28/2009	OU2MW-45D OU2MW-45D 5/27/2009	OU2MW-45D OU2MW-45D 6/22/2009	OU2MW-45D OU2MW-45D 7/28/2009	OU2MW-45D OU2MW-45D 8/24/2009	OU2MW-45D OU2MW-45D 9/29/2009	OU2MW-45D DUP- JC 9/29/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	41.7 UJ	NA	NA	262	112 UJ	NA	NA	NA	NA	103 UJ	NA	NA	NA	38.1 UJ	NA
Antimony	3	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA
Arsenic	25	NA	NA	2.3 U	NA	NA	2.3 U	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	NA	2.3 U	NA
Barium	1000	NA	NA	38.3 J	NA	NA	57.8 J	30.3 J	NA	NA	NA	NA	25.6 J	NA	NA	NA	12.1 J	NA
Beryllium	3*	NA	NA	0.26 U	NA	NA	0.26 U	0.14 UJ	NA	NA	NA	NA	0.44 UJ	NA	NA	NA	0.39 J	NA
Cadmium	5	NA	NA	0.34 UJ	NA	NA	0.34 U	0.42 J	NA	NA	NA	NA	0.54 UJ	NA	NA	NA	0.34 UJ	NA
Calcium	NE	NA	NA	22000	NA	NA	24200	17500	NA	NA	NA	NA	15000	NA	NA	NA	8110	NA
Chromium	50	NA	NA	1.2 J	NA	NA	0.44 UJ	0.54 J	NA	NA	NA	NA	7.4 J	NA	NA	NA	1.3 J	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	1.2 U	NA	NA	1.2 U	4.4 J	NA	NA	NA	NA	3.4 J	NA	NA	NA	1.6 J	NA
Copper	200	NA	NA	0.99 J	NA	NA	2.5 J	1.2 J	NA	NA	NA	NA	2.4 J	NA	NA	NA	0.83 U	NA
Iron	300	NA	NA	140	NA	NA	110 U	139	NA	NA	NA	NA	106	NA	NA	NA	43.4 J	NA
Lead	25	NA	NA	8.8	NA	NA	2.4 J	1.3 U	NA	NA	NA	NA	1.5 U	NA	NA	NA	1.8 J	NA
Magnesium	35000*	NA	NA	4190 J	NA	NA	4230 J	3890 J	NA	NA	NA	NA	3430 J	NA	NA	NA	1760 J	NA
Manganese	300	NA	NA	11100	NA	NA	12900	11500	NA	NA	NA	NA	10300	NA	NA	NA	5720	NA
Mercury	0.7	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA
Nickel	100	NA	NA	1.4 U	NA	NA	1.7 UJ	1.5 J	NA	NA	NA	NA	1.4 U	NA	NA	NA	1.4 U	NA
Potassium	NE	NA	NA	3460 J	NA	NA	4420 J	2960 J	NA	NA	NA	NA	2540 J	NA	NA	NA	1840 J	NA
Selenium	10	NA	NA	2.5 U	NA	NA	2.5 UJ	1.9 U	NA	NA	NA	NA	2.7 UJ	NA	NA	NA	2.5 U	NA
Silver	50	NA	NA	0.83 UJ	NA	NA	0.83 U	2.2 J	NA	NA	NA	NA	1.8 J	NA	NA	NA	0.83 UJ	NA
Sodium	20000*	NA	NA	39000 J	NA	NA	44600	39700	NA	NA	NA	NA	35100	NA	NA	NA	15400 J	NA
Thallium	0.5*	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA
Vanadium	NE	NA	NA	1.4 U	NA	NA	1.4 U	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	NA	1.4 U	NA
Zinc	2000*	NA	NA	205 J	NA	NA	318	1.5 U	NA	NA	NA	NA	1.3 U	NA	NA	NA	24.7 J	NA

Appendix K
 Analytical Groundwater Data Summary
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-4512 OU2MW-4512 8/24/2009	OU2MW-4512 DUP-BSJC 8/24/2009	OU2MW-4512 OU2MW-4512 9/29/2009	OU2MW-4512 OU2MW-4512 10/23/2009	OU2MW-4512 OU2MW-4512 11/18/2009	OU2MW-4512 OU2MW-4512 12/9/2009	OU2MW-45D OU2MW-45D 1/6/2009	OU2MW-45D OU2MW-45D 1/28/2009	OU2MW-45D OU2MW-45D 2/23/2009	OU2MW-45D OU2MW-45D 3/26/2009	OU2MW-45D OU2MW-45D 4/28/2009	OU2MW-45D OU2MW-45D 5/27/2009	OU2MW-45D OU2MW-45D 6/22/2009	OU2MW-45D OU2MW-45D 7/28/2009	OU2MW-45D OU2MW-45D 8/24/2009	OU2MW-45D OU2MW-45D 9/29/2009	OU2MW-45D DUP- JC 9/29/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.376	NA	0.430	NA	NA	NA	0.324	0.417	0.360	0.466	0.413	0.331	0.386	0.318	0.202	0.193	NA	NA
Dissolved Oxygen (mg/L)	NE	26	NA	22	NA	NA	NA	ND	ND	ND	4.6	8.8	14.92	19.28	19.34	19.2	20	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	720	NA	NA	630	2940 J	NA	NA	NA	NA	2180 J	NA	NA	NA	170 J	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	1090	NA	NA	1390	3630	NA	NA	NA	NA	2440	NA	NA	NA	600	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	370	NA	NA	760	690 J	NA	NA	NA	NA	260	NA	NA	NA	430	NA	NA
Oxidation Reduction Potential (mV)	NE	200	NA	95	NA	NA	NA	122	110	80	123	167	202	268	252	152	165	NA	NA
pH (S.U.)	NE	6.06	NA	5.80	NA	NA	NA	6.03	5.9	6.06	5.54	6.14	5.84	4.13	4.66	6.05	6.01	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	13000	NA	NA	6700	2800	220	360	310	NA	210	4200	NA	NA	NA	270	NA
Sulfate (ug/L)	250000	NA	NA	31500	NA	NA	32200	25500	NA	NA	NA	NA	22400	NA	NA	NA	27200	NA	NA
Sulfide (ug/L)	50*	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 UJ	NA	NA
Temperature at Analysis (deg c)	NE	15.7	NA	14.69	NA	NA	NA	13.2	12.22	12	12.31	14.0	13.58	14.95	15.7	15.4	14.60	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	70	NA	NA	50 U	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	50 U	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45D OU2MW-45D 10/23/2009	OU2MW-45D OU2MW-45D 11/18/2009	OU2MW-45D OU2MW-45D 12/9/2009	OU2MW-46S OU2MW-46S 1/8/2009	OU2MW-46S OU2MW-46S 1/29/2009	OU2MW-46S OU2MW-46S 2/24/2009	OU2MW-46S OU2MW-46S 3/25/2009	OU2MW-46S OU2MW-46S 4/30/2009	OU2MW-46S OU2MW-46S 5/28/2009	OU2MW-46S OU2MW-46S 6/22/2009	OU2MW-46S OU2MW-46S 7/27/2009	OU2MW-46S OU2MW-46S 8/26/2009	OU2MW-46S OU2MW-46S 9/30/2009	OU2MW-46S OU2MW-46S 10/23/2009	OU2MW-46S OU2MW-46S 11/18/2009	OU2MW-46S OU2MW-46S 12/11/2009	OU2MW-46I OU2MW-46I 1/8/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichlorofluoromethane	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 UJ	10 U	10 U	47	49 J	3 J	10 U	10 U	10 UJ	4 J	10 U	10 U	10 UJ	10 U	10 U	10 U	370	
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	160	260 J	2 J	10 U	10 U	10 U	11	10 U	10 U	10 UJ	10 UJ	10 U	10 U	680 J	
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	R	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	
Vinyl acetate	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	
Vinyl chloride	2	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	
Total VOCs	NE	1	4	8	938	1082	26	6	ND	ND	38	ND	ND	ND	ND	ND	ND	7555	
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	10 U	10 U	10 U	10 U	17	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	26	
Acenaphthylene	NE	10 U	10 U	10 U	10 U	9	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	290	
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12	
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	
Fluorene	50*	10 U	10 U	10 U	10 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	33	
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 J	
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1900	
Phenanthrene	50*	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	65	
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	31	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2503	
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PAHs (ug/L)																			
Total PAHs	NE	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2503	
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Appendix K
Analytical Groundwater Data Summary
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45D OU2MW-45D 10/23/2009	OU2MW-45D OU2MW-45D 11/18/2009	OU2MW-45D OU2MW-45D 12/9/2009	OU2MW-46S OU2MW-46S 1/8/2009	OU2MW-46S OU2MW-46S 1/29/2009	OU2MW-46S OU2MW-46S 2/24/2009	OU2MW-46S OU2MW-46S 3/25/2009	OU2MW-46S OU2MW-46S 4/30/2009	OU2MW-46S OU2MW-46S 5/28/2009	OU2MW-46S OU2MW-46S 6/22/2009	OU2MW-46S OU2MW-46S 7/27/2009	OU2MW-46S OU2MW-46S 8/26/2009	OU2MW-46S OU2MW-46S 9/30/2009	OU2MW-46S OU2MW-46S 10/23/2009	OU2MW-46S OU2MW-46S 11/18/2009	OU2MW-46S OU2MW-46S 12/11/2009	OU2MW-46I OU2MW-46I 1/8/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2503
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	68.5 UJ	20.4 UJ	NA	NA	NA	NA	97.6 UJ	NA	NA	NA	41.2 UJ	NA	NA	17.7 U	28.5 UJ
Antimony	3	NA	NA	3.8 J	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U
Arsenic	25	NA	NA	2.3 U	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	NA	2.3 U	NA	NA	2.3 U	7.0 J
Barium	1000	NA	NA	10.6 J	21.7 J	NA	NA	NA	NA	20.3 J	NA	NA	NA	36.0 J	NA	NA	36.9 J	28.3 J
Beryllium	3*	NA	NA	1.0 UJ	0.19 UJ	NA	NA	NA	NA	0.58 UJ	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.11 UJ
Cadmium	5	NA	NA	1.3 UJ	0.54 J	NA	NA	NA	NA	0.23 U	NA	NA	NA	0.34 UJ	NA	NA	0.34 U	0.36 J
Calcium	NE	NA	NA	7410	42500	NA	NA	NA	NA	35500	NA	NA	NA	58100	NA	NA	60400	60600
Chromium	50	NA	NA	0.85 J	0.44 J	NA	NA	NA	NA	0.60 J	NA	NA	NA	0.44 U	NA	NA	0.44 UJ	0.41 U
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	2.2 UJ	10.7 J	NA	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA	1.2 U	5.6 J
Copper	200	NA	NA	2.4 J	3.5 J	NA	NA	NA	NA	2.7 J	NA	NA	NA	3.6 J	NA	NA	4.5 J	2.2 J
Iron	300	NA	NA	87.3 UJ	9000	NA	NA	NA	NA	56.4 J	NA	NA	NA	86.7 J	NA	NA	30.0 UJ	18500
Lead	25	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA	1.5 U	NA	NA	NA	2.1 J	NA	NA	1.8 U	1.3 U
Magnesium	35000*	NA	NA	1580 J	6510	NA	NA	NA	NA	4900 J	NA	NA	NA	7590	NA	NA	9570	8800
Manganese	300	NA	NA	5530	1520	NA	NA	NA	NA	74.9	NA	NA	NA	107	NA	NA	64.4	1260
Mercury	0.7	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U
Nickel	100	NA	NA	2.2 UJ	1.6 J	NA	NA	NA	NA	3.6 J	NA	NA	NA	1.4 U	NA	NA	1.4 U	13.9 J
Potassium	NE	NA	NA	1740 J	4910 J	NA	NA	NA	NA	5320 J	NA	NA	NA	6380	NA	NA	6590	4730 J
Selenium	10	NA	NA	2.5 UJ	2.4 UJ	NA	NA	NA	NA	6.4 J	NA	NA	NA	4.3 J	NA	NA	2.5 UJ	1.9 U
Silver	50	NA	NA	0.83 U	0.54 U	NA	NA	NA	NA	0.60 U	NA	NA	NA	0.83 UJ	NA	NA	0.83 U	0.54 U
Sodium	20000*	NA	NA	16300	62000	NA	NA	NA	NA	77800	NA	NA	NA	71800 J	NA	NA	93500	42300
Thallium	0.5*	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U
Vanadium	NE	NA	NA	1.4 U	1.1 J	NA	NA	NA	NA	1.2 J	NA	NA	NA	1.4 U	NA	NA	1.4 U	1.1 J
Zinc	2000*	NA	NA	45.8	9.6 J	NA	NA	NA	NA	32.7	NA	NA	NA	3.2 J	NA	NA	13.4 UJ	8.0 J

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-45D OU2MW-45D 10/23/2009	OU2MW-45D OU2MW-45D 11/18/2009	OU2MW-45D OU2MW-45D 12/9/2009	OU2MW-46S OU2MW-46S 1/8/2009	OU2MW-46S OU2MW-46S 1/29/2009	OU2MW-46S OU2MW-46S 2/24/2009	OU2MW-46S OU2MW-46S 3/25/2009	OU2MW-46S OU2MW-46S 4/30/2009	OU2MW-46S OU2MW-46S 5/28/2009	OU2MW-46S OU2MW-46S 6/22/2009	OU2MW-46S OU2MW-46S 7/27/2009	OU2MW-46S OU2MW-46S 8/26/2009	OU2MW-46S OU2MW-46S 9/30/2009	OU2MW-46S OU2MW-46S 10/23/2009	OU2MW-46S OU2MW-46S 11/18/2009	OU2MW-46S OU2MW-46S 12/11/2009	OU2MW-46I OU2MW-46I 1/8/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	NA	NA	0.579	0.593	0.525	0.693	0.596	0.557	0.628	1.40	1.21	0.754	NA	NA	NA	0.553	NA
Dissolved Oxygen (mg/L)	NE	NA	NA	NA	0.3	27	31	20	22	31	20	28	28	34	NA	NA	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	NA	NA	42 U	140	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	750	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	600 J	660	NA	NA	NA	NA	520 J	NA	NA	NA	1440	NA	NA	4250	100 U	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	110	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA
Nitrogen, Total (ug/L)	NE	NA	NA	1140	1360	NA	NA	NA	NA	1070	NA	NA	NA	1830	NA	NA	4700	1710	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	430	700	NA	NA	NA	NA	550	NA	NA	NA	390	NA	NA	450	1710	NA
Oxidation Reduction Potential (mV)	NE	NA	NA	NA	-45	96	126	159	189	215	253	300	275	197	NA	NA	NA	-78	NA
pH (S.U.)	NE	NA	NA	NA	6.42	6.10	6.11	5.61	6.13	5.71	6.12	4.55	5.91	5.99	NA	NA	NA	6.26	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	140	18	1000	4800	15000	NA	920	760	NA	NA	290	NA	NA	36	110	NA
Sulfate (ug/L)	250000	NA	NA	21100	14100	NA	NA	NA	NA	17800	NA	NA	NA	41600	NA	NA	35800	37600	NA
Sulfide (ug/L)	50*	NA	NA	120 UJ	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA
Temperature at Analysis (deg c)	NE	NA	NA	NA	11.3	9.43	9.0	9.55	12.1	13.77	16	18.7	19.9	17.39	NA	NA	NA	13.4	NA
Total Phosphorous (ug/L)	NE	NA	NA	50 U	78	NA	NA	NA	NA	50 U	NA	NA	NA	100	NA	NA	50 U	50 U	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I	OU2MW-46I2	OU2MW-46I2	OU2MW-46I2	OU2MW-46I2	OU2MW-46I2	OU2MW-46I2
		1/29/2009	2/24/2009	3/25/2009	4/30/2009	4/30/2009	5/28/2009	6/22/2009	7/27/2009	8/26/2009	9/30/2009	10/23/2009	11/18/2009	12/11/2009	1/8/2009	1/29/2009	2/24/2009	3/25/2009	4/30/2009	
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	570 J	41	21	9 J	10	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	13	91	28	28
Trimethylbenzene, 1,2,4-	5	1000 J	32	12	3 J	3 J	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	2 J	6 J	20	130	34	34
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	R	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	R
Vinyl acetate	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	2	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U
Total VOCs	NE	9396	217	99	35	39	11	44	2	1	1	5	2	6	10	29	101	755	196	196
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	23	4 J	2 J	2 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J
Acenaphthylene	NE	220	5	10 U	2 J	2 J	1 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	4 J
Anthracene	50*	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	20	3 J	3 J	3 J	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	160 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	1700	10 U	10 U	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20
Phenanthrene	50*	37	10 U	10 U	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	2169	12	5	12	10	3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	26	26
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																				
Total PAHs	NE	ND	12	ND	12	10	3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-461 OU2MW-461 1/29/2009	OU2MW-461 OU2MW-461 2/24/2009	OU2MW-461 OU2MW-461 3/25/2009	OU2MW-461 OU2MW-461 4/30/2009	OU2MW-461 DUP-01 JC 4/30/2009	OU2MW-461 OU2MW-461 5/28/2009	OU2MW-461 OU2MW-461 6/22/2009	OU2MW-461 OU2MW-461 7/27/2009	OU2MW-461 OU2MW-461 8/26/2009	OU2MW-461 OU2MW-461 9/30/2009	OU2MW-461 OU2MW-461 10/23/2009	OU2MW-461 OU2MW-461 11/18/2009	OU2MW-461 OU2MW-461 12/11/2009	OU2MW-4612 OU2MW-4612 1/8/2009	OU2MW-4612 OU2MW-4612 1/29/2009	OU2MW-4612 OU2MW-4612 2/24/2009	OU2MW-4612 OU2MW-4612 3/25/2009	OU2MW-4612 OU2MW-4612 4/30/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	12	NA	12	10	3	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	NA	71.2 UJ	NA	NA	NA	31.4 UJ	NA	NA	17.7 U	12.9 UJ	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	4.7 UJ	NA	NA	NA	2.3 U	NA	NA	2.3 U	1.8 U	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	24.0 J	NA	NA	NA	34.4 J	NA	NA	35.8 J	25.3 J	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	0.31 UJ	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.096 U	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	0.30 UJ	NA	NA	NA	0.34 UJ	NA	NA	0.34 U	0.35 U	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	69000	NA	NA	NA	91700	NA	NA	96200	10800	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	0.44 U	NA	NA	NA	0.44 J	NA	NA	0.44 UJ	0.41 U	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA	1.2 U	2.2 J	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	11.8 J	NA	NA	NA	9.1 J	NA	NA	9.4 J	0.88 J	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	79.2 J	NA	NA	NA	48.5 J	NA	NA	68.2 UJ	24.5 UJ	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	1.5 U	NA	NA	NA	1.8 U	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	11900	NA	NA	NA	11100	NA	NA	9210	2030 J	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	876	NA	NA	NA	293	NA	NA	158	4890	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	5.4 J	NA	NA	NA	4.9 J	NA	NA	5.9 UJ	1.2 U	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	5120 J	NA	NA	NA	8440	NA	NA	8010	2540 J	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	2.7 UJ	NA	NA	NA	2.5 U	NA	NA	2.5 U	2.3 UJ	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	0.60 U	NA	NA	NA	0.83 UJ	NA	NA	0.83 U	0.76 J	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	42100	NA	NA	NA	48300 J	NA	NA	53500	52400	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	0.97 U	NA	NA	NA	1.4 U	NA	NA	1.4 U	0.74 U	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	12.4 J	NA	NA	NA	1.8 J	NA	NA	15.6 UJ	1.5 U	NA	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-461 OU2MW-461 1/29/2009	OU2MW-461 OU2MW-461 2/24/2009	OU2MW-461 OU2MW-461 3/25/2009	OU2MW-461 OU2MW-461 4/30/2009	OU2MW-461 DUP-01 JC 4/30/2009	OU2MW-461 OU2MW-461 5/28/2009	OU2MW-461 OU2MW-461 6/22/2009	OU2MW-461 OU2MW-461 7/27/2009	OU2MW-461 OU2MW-461 8/26/2009	OU2MW-461 OU2MW-461 9/30/2009	OU2MW-461 OU2MW-461 10/23/2009	OU2MW-461 OU2MW-461 11/18/2009	OU2MW-461 OU2MW-461 12/11/2009	OU2MW-4612 OU2MW-4612 1/8/2009	OU2MW-4612 OU2MW-4612 1/29/2009	OU2MW-4612 OU2MW-4612 2/24/2009	OU2MW-4612 OU2MW-4612 3/25/2009	OU2MW-4612 OU2MW-4612 4/30/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.627	0.565	0.745	0.750	NA	0.574	0.788	0.852	0.665	0.789	NA	NA	NA	0.320	0.322	0.233	0.503	0.586
Dissolved Oxygen (mg/L)	NE	41	41	20	21	NA	36	35	38	44	39	NA	NA	NA	ND	13.3	37	20	24
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	510	NA	NA	NA	640	NA	NA	780	110	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	130	NA	NA	2300	290	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	630	100 U	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	3260	NA	NA	NA	1690	NA	NA	4870	440	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	3260	NA	NA	NA	1560	NA	NA	1940	150	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	68	127	151	167	NA	172	345	286	286	159	NA	NA	NA	85	175	164	174	217
pH (S.U.)	NE	6.17	6.34	6.00	6.52	NA	6.3	5.95	4.98	6.31	6.52	NA	NA	NA	6.00	5.75	5.77	5.50	5.90
Standard Plate Count (cfu/ml)	NE	16000	120000 J	11000	NA	NA	7600	13000	NA	NA	2900	NA	NA	360	32	2200	860	300 J	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	39200	NA	NA	NA	122000	NA	NA	111000	41900	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	12.18	11.9	12.22	12.9	NA	13.38	14.33	16.6	17.7	15.78	NA	NA	NA	12.7	10.80	9.1	12.63	13.1
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-4612 OU2MW-4612 5/28/2009	OU2MW-4612 OU2MW-4612 6/22/2009	OU2MW-4612 OU2MW-4612 7/27/2009	OU2MW-4612 OU2MW-4612 8/26/2009	OU2MW-4612 OU2MW-4612 9/30/2009	OU2MW-4612 OU2MW-4612 10/23/2009	OU2MW-4612 OU2MW-4612 11/18/2009	OU2MW-4612 OU2MW-4612 12/11/2009	OU2MW-47S OU2MW-47S 1/9/2009	OU2MW-47S OU2MW-47S 1/30/2009	OU2MW-47S OU2MW-47S 2/23/2009	OU2MW-47S OU2MW-47S 3/24/2009	OU2MW-47S OU2MW-47S 4/29/2009	OU2MW-47S OU2MW-47S 5/28/2009	OU2MW-47S OU2MW-47S 6/22/2009	OU2MW-47S OU2MW-47S 7/28/2009	OU2MW-47S DUP-JC 7/28/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	38 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	120	10 U	10 U	10 U	10 U	10 U	10 U	10 U	80 J	120 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Vinyl chloride	2	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	367	5	3	3	5	19	18	7	495	547	8	ND	5	ND	ND	2	ND
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	12	3 J	10 U	10 U	10 U	10 U	10 U	10 U	12	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	38	6	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	35	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	56	9	ND	ND	ND	3	ND	ND	56	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																		
Total PAHs	NE	56	9	ND	ND	ND	3	ND	ND	56	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-4612 OU2MW-4612 5/28/2009	OU2MW-4612 OU2MW-4612 6/22/2009	OU2MW-4612 OU2MW-4612 7/27/2009	OU2MW-4612 OU2MW-4612 8/26/2009	OU2MW-4612 OU2MW-4612 9/30/2009	OU2MW-4612 OU2MW-4612 10/23/2009	OU2MW-4612 OU2MW-4612 11/18/2009	OU2MW-4612 OU2MW-4612 12/11/2009	OU2MW-47S OU2MW-47S 1/9/2009	OU2MW-47S OU2MW-47S 1/30/2009	OU2MW-47S OU2MW-47S 2/23/2009	OU2MW-47S OU2MW-47S 3/24/2009	OU2MW-47S OU2MW-47S 4/29/2009	OU2MW-47S OU2MW-47S 5/28/2009	OU2MW-47S OU2MW-47S 6/22/2009	OU2MW-47S OU2MW-47S 7/28/2009	OU2MW-47S DUP-JC 7/28/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	56	9	NA	NA	NA	3	NA	NA	56	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																		
Aluminum	NE	66.4 UJ	NA	NA	NA	27.1 UJ	NA	NA	17.7 U	25.9 UJ	NA	NA	NA	NA	96.7 UJ	NA	NA	NA
Antimony	3	2.7 U	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA	3.3 J	NA	NA	NA
Arsenic	25	2.8 U	NA	NA	NA	2.3 U	NA	NA	2.3 U	3.0 J	NA	NA	NA	NA	3.2 UJ	NA	NA	NA
Barium	1000	41.1 J	NA	NA	NA	30.8 J	NA	NA	29.2 J	20.2 J	NA	NA	NA	NA	16.7 J	NA	NA	NA
Beryllium	3*	0.29 UJ	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.096 U	NA	NA	NA	NA	0.49 UJ	NA	NA	NA
Cadmium	5	0.89 UJ	NA	NA	NA	0.34 UJ	NA	NA	0.34 U	0.35 U	NA	NA	NA	NA	0.27 UJ	NA	NA	NA
Calcium	NE	26500	NA	NA	NA	16100	NA	NA	15900	24000	NA	NA	NA	NA	15400	NA	NA	NA
Chromium	50	0.44 U	NA	NA	NA	0.60 J	NA	NA	0.44 UJ	0.41 U	NA	NA	NA	NA	0.60 J	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	3.6 J	NA	NA	NA	3.2 J	NA	NA	4.8 UJ	1.0 J	NA	NA	NA	NA	1.2 U	NA	NA	NA
Copper	200	6.5 J	NA	NA	NA	0.83 U	NA	NA	2.3 J	2.6 J	NA	NA	NA	NA	3.4 J	NA	NA	NA
Iron	300	37.9 J	NA	NA	NA	26.7 J	NA	NA	42.6 UJ	14800	NA	NA	NA	NA	76.7 J	NA	NA	NA
Lead	25	1.5 U	NA	NA	NA	1.8 U	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA	1.5 U	NA	NA	NA
Magnesium	35000*	5560	NA	NA	NA	3220 J	NA	NA	3180 J	4030 J	NA	NA	NA	NA	2960 J	NA	NA	NA
Manganese	300	11000	NA	NA	NA	6220	NA	NA	5710	143	NA	NA	NA	NA	26.8	NA	NA	NA
Mercury	0.7	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA
Nickel	100	19.6 J	NA	NA	NA	3.4 J	NA	NA	5.9 UJ	1.2 U	NA	NA	NA	NA	1.8 J	NA	NA	NA
Potassium	NE	3170 J	NA	NA	NA	2750 J	NA	NA	3040 J	1720 J	NA	NA	NA	NA	1190 J	NA	NA	NA
Selenium	10	2.7 UJ	NA	NA	NA	2.5 U	NA	NA	2.5 UJ	2.5 UJ	NA	NA	NA	NA	7.4 J	NA	NA	NA
Silver	50	1.5 J	NA	NA	NA	0.83 UJ	NA	NA	0.83 U	0.54 U	NA	NA	NA	NA	0.60 U	NA	NA	NA
Sodium	20000*	49800	NA	NA	NA	39500 J	NA	NA	39800	33200	NA	NA	NA	NA	18000	NA	NA	NA
Thallium	0.5*	3.3 U	NA	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA	NA	NA	3.3 U	NA	NA	NA
Vanadium	NE	0.97 U	NA	NA	NA	1.4 U	NA	NA	1.4 U	3.1 J	NA	NA	NA	NA	3.5 J	NA	NA	NA
Zinc	2000*	1.3 U	NA	NA	NA	1.1 UJ	NA	NA	1.1 U	21.9	NA	NA	NA	NA	29.4	NA	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-4612 OU2MW-4612 5/28/2009	OU2MW-4612 OU2MW-4612 6/22/2009	OU2MW-4612 OU2MW-4612 7/27/2009	OU2MW-4612 OU2MW-4612 8/26/2009	OU2MW-4612 OU2MW-4612 9/30/2009	OU2MW-4612 OU2MW-4612 10/23/2009	OU2MW-4612 OU2MW-4612 11/18/2009	OU2MW-4612 OU2MW-4612 12/11/2009	OU2MW-47S OU2MW-47S 1/9/2009	OU2MW-47S OU2MW-47S 1/30/2009	OU2MW-47S OU2MW-47S 2/23/2009	OU2MW-47S OU2MW-47S 3/24/2009	OU2MW-47S OU2MW-47S 4/29/2009	OU2MW-47S OU2MW-47S 5/28/2009	OU2MW-47S OU2MW-47S 6/22/2009	OU2MW-47S OU2MW-47S 7/28/2009	OU2MW-47S DUP-JC 7/28/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.407	0.321	0.477	0.377	0.366	NA	NA	NA	0.303	0.350	0.265	0.320	0.256	0.177	0.263	0.261	NA	
Dissolved Oxygen (mg/L)	NE	38	42	38	40	41	NA	NA	NA	ND	ND	9.9	20	22	18.44	36	28	NA	
Nitrogen, Ammonia (ug/L)	2000	100 U	NA	NA	NA	100 U	NA	NA	180	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	
Nitrogen, Nitrate (ug/L)	10000	110 J	NA	NA	NA	1280	NA	NA	2750	350	NA	NA	NA	NA	710 J	NA	NA	NA	
Nitrogen, Nitrite (ug/L)	1000	100 U	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	
Nitrogen, Total (ug/L)	NE	580	NA	NA	NA	1620	NA	NA	3260	350	NA	NA	NA	NA	1350	NA	NA	NA	
Nitrogen, Total Kjeldahl (ug/L)	NE	470	NA	NA	NA	340	NA	NA	500	100 U	NA	NA	NA	NA	640	NA	NA	NA	
Oxidation Reduction Potential (mV)	NE	218	284	305	310	219	NA	NA	NA	-62	-104	21	84	189	206	340	343	NA	
pH (S.U.)	NE	6.24	5.81	4.51	5.68	5.74	NA	NA	NA	6.33	6.09	5.78	5.44	5.90	5.55	5.4	4.34	NA	
Standard Plate Count (cfu/ml)	NE	3300	14000	NA	NA	180	NA	NA	20	1300	75	8700	64000 J	NA	560	17000	NA	NA	
Sulfate (ug/L)	250000	80000	NA	NA	NA	44600	NA	NA	31600	13200	NA	NA	NA	NA	16700	NA	NA	NA	
Sulfide (ug/L)	50*	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	
Temperature at Analysis (deg c)	NE	13.77	14.51	16.5	17.0	16.21	NA	NA	NA	12.6	10.75	10.5	10.88	12.2	14.36	14.07	17.1	NA	
Total Phosphorous (ug/L)	NE	50 U	NA	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	
		8/26/2009	9/30/2009	10/22/2009	11/18/2009	12/9/2009	1/9/2009	1/28/2009	1/28/2009	2/23/2009	3/24/2009	4/29/2009	5/28/2009	6/22/2009	7/28/2009	8/24/2009	9/30/2009	10/22/2009	11/18/2009	BSJC-DUP-01	OU2MW-47S
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 UJ	10 U	10 U	10 U	10 U	15	15 J	15 J	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 UJ	10 U	10 UJ	10 U	10 U	430 J	1300	1200	16	3 J	3 J	3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U
Vinyl chloride	2	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Total VOCs	NE	ND	3	ND	6	8	3046	7789	7672	124	35	26	48	ND	13	1	5	ND	1		
Non-carcinogenic PAHs (ug/L)																					
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	100	72 J	83 J	1 J	2 J	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	5	2 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	16	14	14	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	5	3 J	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	47	37	35	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	47	88 J	97 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	450	760	830	10 U	1 J	10 U	2 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	110	63 J	74	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	5	4 J	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	785	1043	1141	1	3	ND	4	2	ND	ND	ND	ND	6	ND	ND
Carcinogenic PAHs (ug/L)																					
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																					
Total PAHs	NE	ND	ND	ND	ND	ND	785	ND	ND	1	ND	ND	4	2	ND	ND	ND	ND	6	ND	ND
Other SVOCs (ug/L)																					
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3'-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47S 8/26/2009	OU2MW-47S 9/30/2009	OU2MW-47S 10/22/2009	OU2MW-47S 11/18/2009	OU2MW-47S 12/9/2009	OU2MW-471 1/9/2009	OU2MW-471 1/28/2009	OU2MW-471 1/28/2009	OU2MW-471 2/23/2009	OU2MW-471 3/24/2009	OU2MW-471 4/29/2009	OU2MW-471 5/28/2009	OU2MW-471 6/22/2009	OU2MW-471 7/28/2009	OU2MW-471 8/24/2009	OU2MW-471 9/30/2009	OU2MW-471 10/22/2009	OU2MW-471 11/18/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	785	NA	NA	1	NA	NA	4	2	NA	NA	NA	6	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	32.2 UJ	NA	NA	21.5 UJ	21.1 UJ	NA	NA	NA	NA	NA	119 UJ	NA	NA	NA	21.7 UJ	NA	NA
Antimony	3	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA	NA	NA	NA	5.0 J	NA	NA	NA	2.1 U	NA	NA
Arsenic	25	NA	2.3 U	NA	NA	2.3 U	10.4	NA	NA	NA	NA	NA	5.5 UJ	NA	NA	NA	2.3 U	NA	NA
Barium	1000	NA	24.3 J	NA	NA	38.0 J	50.4 J	NA	NA	NA	NA	NA	36.9 J	NA	NA	NA	19.2 J	NA	NA
Beryllium	3*	NA	0.26 U	NA	NA	0.26 U	0.096 U	NA	NA	NA	NA	NA	0.74 UJ	NA	NA	NA	0.26 U	NA	NA
Cadmium	5	NA	0.34 UJ	NA	NA	0.34 U	0.48 J	NA	NA	NA	NA	NA	0.71 UJ	NA	NA	NA	0.34 UJ	NA	NA
Calcium	NE	NA	22600	NA	NA	36200	36400	NA	NA	NA	NA	NA	37100	NA	NA	NA	28600	NA	NA
Chromium	50	NA	0.48 J	NA	NA	0.44 UJ	0.41 U	NA	NA	NA	NA	NA	1.8 J	NA	NA	NA	0.44 U	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	1.2 U	NA	NA	1.2 U	0.97 J	NA	NA	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA
Copper	200	NA	2.6 J	NA	NA	4.4 J	2.4 J	NA	NA	NA	NA	NA	1.5 J	NA	NA	NA	1.2 J	NA	NA
Iron	300	NA	24.7 J	NA	NA	112 U	25700	NA	NA	NA	NA	NA	160	NA	NA	NA	20.0 J	NA	NA
Lead	25	NA	1.8 U	NA	NA	1.8 U	1.3 U	NA	NA	NA	NA	NA	1.5 U	NA	NA	NA	1.8 U	NA	NA
Magnesium	35000*	NA	3780 J	NA	NA	6450	5350	NA	NA	NA	NA	NA	5280	NA	NA	NA	4140 J	NA	NA
Manganese	300	NA	29.3	NA	NA	44.6	545	NA	NA	NA	NA	NA	301	NA	NA	NA	289	NA	NA
Mercury	0.7	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA
Nickel	100	NA	1.4 U	NA	NA	1.4 U	1.2 U	NA	NA	NA	NA	NA	2.6 J	NA	NA	NA	1.4 U	NA	NA
Potassium	NE	NA	1540 J	NA	NA	2460 J	3660 J	NA	NA	NA	NA	NA	3100 J	NA	NA	NA	2170 J	NA	NA
Selenium	10	NA	2.5 U	NA	NA	2.5 UJ	1.9 U	NA	NA	NA	NA	NA	2.7 UJ	NA	NA	NA	2.5 U	NA	NA
Silver	50	NA	0.83 UJ	NA	NA	0.83 U	0.54 U	NA	NA	NA	NA	NA	0.73 J	NA	NA	NA	0.83 UJ	NA	NA
Sodium	20000*	NA	27400 J	NA	NA	47700	79100	NA	NA	NA	NA	NA	71700	NA	NA	NA	40400 J	NA	NA
Thallium	0.5*	NA	3.2 U	NA	NA	3.2 U	2.1 UJ	NA	NA	NA	NA	NA	4.7 J	NA	NA	NA	3.2 U	NA	NA
Vanadium	NE	NA	4.3 J	NA	NA	3.4 UJ	0.86 J	NA	NA	NA	NA	NA	0.97 U	NA	NA	NA	1.4 U	NA	NA
Zinc	2000*	NA	33.6 J	NA	NA	24.2	32.2	NA	NA	NA	NA	NA	13.0 J	NA	NA	NA	16.8 J	NA	NA

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47S OU2MW-47S 8/26/2009	OU2MW-47S OU2MW-47S 9/30/2009	OU2MW-47S OU2MW-47S 10/22/2009	OU2MW-47S OU2MW-47S 11/18/2009	OU2MW-47S OU2MW-47S 12/9/2009	OU2MW-471 OU2MW-471 1/9/2009	OU2MW-471 OU2MW-471 1/28/2009	OU2MW-471 BSJC-DUP-01 1/28/2009	OU2MW-471 OU2MW-471 2/23/2009	OU2MW-471 OU2MW-471 3/24/2009	OU2MW-471 OU2MW-471 4/29/2009	OU2MW-471 OU2MW-471 5/28/2009	OU2MW-471 OU2MW-471 6/22/2009	OU2MW-471 OU2MW-471 7/28/2009	OU2MW-471 OU2MW-471 8/24/2009	OU2MW-471 OU2MW-471 9/30/2009	OU2MW-471 OU2MW-471 10/22/2009	OU2MW-471 OU2MW-471 11/18/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.222	0.303	NA	NA	NA	0.640	0.96	NA	0.662	1.02	0.722	0.502	0.674	0.565	0.359	0.390	NA	NA
Dissolved Oxygen (mg/L)	NE	32	33	NA	NA	NA	ND	ND	NA	24	20	26	26	31	36	38	43	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	100 U	NA	NA	100 U	530	NA	NA	NA	NA	NA	100 U	NA	NA	NA	200	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	800	NA	NA	100 U	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	NA	1150	NA	NA	430	930	NA	NA	NA	NA	NA	490	NA	NA	NA	660	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	350	NA	NA	430	930	NA	NA	NA	NA	NA	490	NA	NA	NA	660	NA	NA
Oxidation Reduction Potential (mV)	NE	314	206	NA	NA	NA	-104	-114	NA	15	44	91	138	330	288	210	171	NA	NA
pH (S.U.)	NE	5.28	5.89	NA	NA	NA	6.55	6.25	NA	6.18	5.84	6.38	6.41	5.98	4.70	6.02	6.32	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	480	NA	NA	1600	4	80	NA	68000 J	2600	NA	2500	2800	NA	NA	420	NA	NA
Sulfate (ug/L)	250000	NA	17800	NA	NA	8190	5000 U	NA	NA	NA	NA	NA	7590	NA	NA	NA	22300	NA	NA
Sulfide (ug/L)	50*	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 U	NA	NA
Temperature at Analysis (deg c)	NE	19.0	17.58	NA	NA	NA	13.8	12.95	NA	12.5	12.30	12.9	12.99	13.64	16.2	17.0	16.01	NA	NA
Total Phosphorous (ug/L)	NE	NA	110	NA	NA	50 U	50 U	NA	NA	NA	NA	NA	50 U	NA	NA	NA	50 U	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-471 OU2MW-471 12/9/2009	OU2MW-472 OU2MW-472 1/9/2009	OU2MW-472 OU2MW-472 1/29/2009	OU2MW-472 OU2MW-472 2/25/2009	OU2MW-472 OU2MW-472 3/24/2009	OU2MW-472 OU2MW-472 4/29/2009	OU2MW-472 OU2MW-472 5/27/2009	OU2MW-472 OU2MW-472 6/22/2009	OU2MW-472 OU2MW-472 7/28/2009	OU2MW-472 OU2MW-472 8/26/2009	OU2MW-472 OU2MW-472 9/30/2009	OU2MW-472 OU2MW-472 10/22/2009	OU2MW-472 OU2MW-472 11/18/2009	OU2MW-472 OU2MW-472 12/9/2009	OU2MW-47D OU2MW-47D 1/6/2009	OU2MW-47D OU2MW-47D 1/29/2009	OU2MW-47D OU2MW-47D 2/25/2009	
BTEX (ug/L)																			
Benzene	1	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	5 J	10 U	2 J	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	8	5	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	2 J	3 J	3 J
Ethylbenzene	5	10 U	80	45	12	4 J	1 J	10 U	10 U	2 J	13	140	4 J	10 U	10 U	9	7	6	6
Xylene, m,p-	5	10 U	150	78	46	27	4 J	1 J	1 J	3 J	3 J	8 J	2 J	6 J	2 J	350	340	430 J	430 J
Xylene, o-	5	10 U	58	31	16	9	2 J	10 U	10 U	4 J	4 J	18	3 J	4 J	1 J	110	93	130	130
Total BTEX	NE	ND	297	159	75	40	7	1	1	9	22	173	9	12	3	472	442	569	569
Other VOCs (ug/L)																			
Acetaldehyde	8*	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Acetone	50*	10 U	10 U	3 J	10 U	8	10 UJ	10 U	10 U	10 UJ	10 UJ	3 J	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Allyl chloride	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U
Bromodichloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	50*	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ
Butadiene, 1,3-	NE	R	R	10 U	10 U	R	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	R	R	R	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U
Carbon disulfide	60*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
Carbon tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	3 J	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	4 J	10 UJ	10 U	1 J	1 J
Chlorotoluene	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cryofluorane	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
Decane, n-	NE	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U
Dibromochloromethane	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Dichloroethane, 1,2-	0.6	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropane, 1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, cis-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloropropene, trans-1,3	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dioxane, 1,4-	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Dodecane, n-	NE	R	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Ethanol	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Heptane, n-	NE	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Hexachlorobutadiene	0.5	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U
Hexanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	60 J	17	4 J	3 J	10 U	10 U	10 U	10 U	2 J	6	10 UJ	10 U	10 U	28	22	22	22
Methyl tert-butyl ether	10*	10 U	13	46	31 J	24	16	9	12	12	12 J	8 J	8 J	7	7	40	81	52 J	52 J
Methyl-2-pentanone, 4-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Methylene chloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	9800	8600	3300	820	120	34	23	27 J	11 J	38	9	11	11	13000	20000	11000	11000
Nonane	NE	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Octane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Propanol, 2-	NE	R	500 U	500 U	500 UJ	R	R	R	R	R	R	R	R	R	R	R	500 U	500 U	500 UJ
Propylbenzene, n-	5	10 U	55 J	21	11	6	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	50	37	34	34
Styrene	5	10 U	22	9	8	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethane, 1,1,2,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	12	4 J	2 J	1 J	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	2 J	2 J	2 J
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Trans-1,2-dichloroethene	5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Trichlorobenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-471 OU2MW-471 12/9/2009	OU2MW-4712 OU2MW-4712 1/9/2009	OU2MW-4712 OU2MW-4712 1/29/2009	OU2MW-4712 OU2MW-4712 2/25/2009	OU2MW-4712 OU2MW-4712 3/24/2009	OU2MW-4712 OU2MW-4712 4/29/2009	OU2MW-4712 OU2MW-4712 5/27/2009	OU2MW-4712 OU2MW-4712 6/22/2009	OU2MW-4712 OU2MW-4712 7/28/2009	OU2MW-4712 OU2MW-4712 8/26/2009	OU2MW-4712 OU2MW-4712 9/30/2009	OU2MW-4712 OU2MW-4712 10/22/2009	OU2MW-4712 OU2MW-4712 11/18/2009	OU2MW-4712 OU2MW-4712 12/9/2009	OU2MW-47D OU2MW-47D 1/6/2009	OU2MW-47D OU2MW-47D 1/29/2009	OU2MW-47D OU2MW-47D 2/25/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	360	190 J	82	68	7 J	2 J	10 U	4 J	2 J	3 J	10 U	5 J	10 U	350	330 J	250
Trimethylbenzene, 1,2,4-	5	10 U	730	600 J	200 J	92	15	4 J	3 J	6	4 J	7	3 J	10 U	1 J	910 J	1500 J	620
Trimethylpentane, 2,2,4-	NE	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Vinyl acetate	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ
Total VOCs	NE	3	11349	9649	3713	1066	165	50	39	58	53	238	29	35	26	14854	22416	12550
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	10 U	39	29	33	7	2 J	10 U	10 U	10 U	10 U	2 J	10 U	5	3 J	22	14	16
Acenaphthylene	NE	10 U	320 J	220	220 J	2 J	4 J	2 J	10 U	3 J	2 J	3 J	2 J	4 J	4 J	300 J	210 J	200 J
Anthracene	50*	10 U	15	9	9	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	1 J	5	3 J	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Fluorene	50*	10 U	54	36	47	17	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	58	38	44
Methylnaphthalene, 2-	NE	10 U	840	480	220 J	2 J	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U	1100	810	690
Naphthalene	10*	10 U	4800	2800	1800	10 U	10 U	10 U	10 U	10 U	6	24	10 U	10 U	10 U	5900	5900	4900
Phenanthrene	50*	10 U	68	47	53	14	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	53	35	40
Pyrene	50*	10 U	5	3 J	4 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	1	6146	3627	2389	49	8	2	ND	3	8	31	2	9	7	7437	7007	5890
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																		
Total PAHs	NE	1	6146	ND	2389	ND	8	2	ND	3	8	31	2	9	7	7437	ND	5890
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-471 OU2MW-471 12/9/2009	OU2MW-4712 OU2MW-4712 1/9/2009	OU2MW-4712 OU2MW-4712 1/29/2009	OU2MW-4712 OU2MW-4712 2/25/2009	OU2MW-4712 OU2MW-4712 3/24/2009	OU2MW-4712 OU2MW-4712 4/29/2009	OU2MW-4712 OU2MW-4712 5/27/2009	OU2MW-4712 OU2MW-4712 6/22/2009	OU2MW-4712 OU2MW-4712 7/28/2009	OU2MW-4712 OU2MW-4712 8/26/2009	OU2MW-4712 OU2MW-4712 9/30/2009	OU2MW-4712 OU2MW-4712 10/22/2009	OU2MW-4712 OU2MW-4712 11/18/2009	OU2MW-4712 OU2MW-4712 12/9/2009	OU2MW-47D OU2MW-47D 1/6/2009	OU2MW-47D OU2MW-47D 1/29/2009	OU2MW-47D OU2MW-47D 2/25/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	1	6146	NA	2389	NA	8	2	NA	3	8	31	2	9	7	7437	NA	5890
Total Metals (ug/L)																		
Aluminum	NE	39.3 UJ	15.0 UJ	NA	NA	NA	NA	73.0 UJ	NA	NA	NA	31.5 UJ	NA	NA	44.1 UJ	65.5 UJ	NA	NA
Antimony	3	2.1 U	2.3 U	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.3 U	NA	NA
Arsenic	25	2.3 U	1.8 U	NA	NA	NA	NA	2.8 U	NA	NA	NA	2.3 U	NA	NA	2.3 U	1.8 U	NA	NA
Barium	1000	21.8 J	73.0 J	NA	NA	NA	NA	61.4 J	NA	NA	NA	85.1 J	NA	NA	68.4 J	26.1 J	NA	NA
Beryllium	3*	0.26 U	0.096 U	NA	NA	NA	NA	0.28 UJ	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.14 UJ	NA	NA
Cadmium	5	0.34 U	0.46 J	NA	NA	NA	NA	0.57 UJ	NA	NA	NA	0.34 UJ	NA	NA	0.65 UJ	0.76 J	NA	NA
Calcium	NE	23600	24200	NA	NA	NA	NA	18800	NA	NA	NA	24000	NA	NA	21700	18200	NA	NA
Chromium	50	0.44 UJ	1.1 J	NA	NA	NA	NA	0.64 J	NA	NA	NA	1.4 J	NA	NA	1.0 J	1.2 J	NA	NA
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	1.2 U	1.9 J	NA	NA	NA	NA	1.7 J	NA	NA	NA	9.0 J	NA	NA	7.3 UJ	1.1 J	NA	NA
Copper	200	3.3 J	1.5 J	NA	NA	NA	NA	1.2 U	NA	NA	NA	5.6 J	NA	NA	9.6 J	0.77 J	NA	NA
Iron	300	1010	133	NA	NA	NA	NA	51.1 J	NA	NA	NA	21.4 J	NA	NA	212	429	NA	NA
Lead	25	1.9 J	1.3 U	NA	NA	NA	NA	1.5 U	NA	NA	NA	2.6 J	NA	NA	8.6	1.3 U	NA	NA
Magnesium	35000*	3540 J	4600 J	NA	NA	NA	NA	3760 J	NA	NA	NA	4470 J	NA	NA	4130 J	7560	NA	NA
Manganese	300	352	22700	NA	NA	NA	NA	18100	NA	NA	NA	18900	NA	NA	20000	3310	NA	NA
Mercury	0.7	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA
Nickel	100	1.9 UJ	10.8 J	NA	NA	NA	NA	3.3 J	NA	NA	NA	3.6 J	NA	NA	3.0 UJ	3.8 J	NA	NA
Potassium	NE	2660 J	4110 J	NA	NA	NA	NA	3380 J	NA	NA	NA	4900 J	NA	NA	4430 J	1880 J	NA	NA
Selenium	10	2.5 UJ	4.2 UJ	NA	NA	NA	NA	2.7 UJ	NA	NA	NA	3.0 J	NA	NA	2.5 UJ	1.9 U	NA	NA
Silver	50	0.83 U	4.1 J	NA	NA	NA	NA	2.9 J	NA	NA	NA	0.83 UJ	NA	NA	1.7 J	0.77 J	NA	NA
Sodium	20000*	27400	63500	NA	NA	NA	NA	52200	NA	NA	NA	69100 J	NA	NA	51900	38600	NA	NA
Thallium	0.5*	3.2 U	2.8 UJ	NA	NA	NA	NA	3.3 U	NA	NA	NA	3.2 U	NA	NA	3.2 U	1.9 U	NA	NA
Vanadium	NE	1.4 U	0.74 U	NA	NA	NA	NA	0.97 U	NA	NA	NA	1.4 U	NA	NA	1.4 U	0.74 U	NA	NA
Zinc	2000*	1230	1.5 U	NA	NA	NA	NA	1.3 U	NA	NA	NA	1.1 UJ	NA	NA	35.6	4.2 J	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-471 OU2MW-471 12/9/2009	OU2MW-472 OU2MW-472 1/9/2009	OU2MW-472 OU2MW-472 1/29/2009	OU2MW-472 OU2MW-472 2/25/2009	OU2MW-472 OU2MW-472 3/24/2009	OU2MW-472 OU2MW-472 4/29/2009	OU2MW-472 OU2MW-472 5/27/2009	OU2MW-472 OU2MW-472 6/22/2009	OU2MW-472 OU2MW-472 7/28/2009	OU2MW-472 OU2MW-472 8/26/2009	OU2MW-472 OU2MW-472 9/30/2009	OU2MW-472 OU2MW-472 10/22/2009	OU2MW-472 OU2MW-472 11/18/2009	OU2MW-472 OU2MW-472 12/9/2009	OU2MW-47D OU2MW-47D 1/6/2009	OU2MW-47D OU2MW-47D 1/29/2009	OU2MW-47D OU2MW-47D 2/25/2009
Cyanides (ug/L)																		
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																		
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.490	0.719	0.446	0.530	0.513	0.462	0.399	0.575	0.547	0.622	NA	NA	NA	0.341	0.503	0.386
Dissolved Oxygen (mg/L)	NE	NA	ND	6.8	36	20	22	31	21	40	40	46	NA	NA	NA	ND	11.2	30
Nitrogen, Ammonia (ug/L)	2000	410	170	NA	NA	NA	NA	100 U	NA	NA	NA	100	NA	NA	100 U	100 U	NA	NA
Nitrogen, Nitrate (ug/L)	10000	100 UJ	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	100 UJ	NA	NA
Nitrogen, Nitrite (ug/L)	1000	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA
Nitrogen, Total (ug/L)	NE	1000	260	NA	NA	NA	NA	560	NA	NA	NA	420	NA	NA	380	100 U	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	1000	260	NA	NA	NA	NA	560	NA	NA	NA	420	NA	NA	380	100 U	NA	NA
Oxidation Reduction Potential (mV)	NE	NA	75	144	134	116	178	199	225	324	306	184	NA	NA	NA	79	151	161
pH (S.U.)	NE	NA	6.28	6.16	6.16	5.91	6.26	6.09	6.13	4.86	5.97	6.13	NA	NA	NA	5.55	5.42	5.35
Standard Plate Count (cfu/ml)	NE	12000	24	3400	73000 J	9800	NA	6500	950	NA	NA	960	NA	NA	4700	640	17000	98000 J
Sulfate (ug/L)	250000	22000	36100	NA	NA	NA	NA	27000	NA	NA	NA	38400	NA	NA	25100	33200	NA	NA
Sulfide (ug/L)	50*	2000 UJ	1000 U	NA	NA	NA	NA	1000 U	NA	NA	NA	2000 U	NA	NA	2000 UJ	1000 U	NA	NA
Temperature at Analysis (deg c)	NE	NA	13.1	12.07	12.6	12.92	14.0	14.05	15.79	16.5	16.8	15.41	NA	NA	NA	13.4	12.58	12
Total Phosphorous (ug/L)	NE	50 U	50 U	NA	NA	NA	NA	50 U	NA	NA	NA	50 U	NA	NA	50 U	50 U	NA	NA

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47D OU2MW-47D 3/24/2009	OU2MW-47D OU2MW-47D 4/29/2009	OU2MW-47D OU2MW-47D 5/28/2009	OU2MW-47D OU2MW-47D 6/22/2009	OU2MW-47D DUP-01-JC 6/22/2009	OU2MW-47D OU2MW-47D 7/28/2009	OU2MW-47D OU2MW-47D 8/24/2009	OU2MW-47D OU2MW-47D 9/29/2009	OU2MW-47D OU2MW-47D 10/22/2009	OU2MW-47D OU2MW-47D 11/18/2009	OU2MW-47D OU2MW-47D 12/9/2009	OU2MW-52S OU2MW-52S 6/1/2009	OU2MW-52S OU2MW-52S 8/24/2009	OU2MW-52S DUP-09-Q3 8/24/2009	OU2MW-52S OU2MW-52S 12/8/2009	OU2MW-52S OU2MW-52S 12/21/2009	OU2MW-52I OU2MW-52I 6/1/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Trichlorofluoromethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	220	250	260 J	230	240	240	200	180	130	110	90	10 U	10 UJ	10 UJ	10 U	NA	16
Trimethylbenzene, 1,2,4-	5	500	430 J	420 J	420 J	420 J	520 J	370	280 J	210 J	190	180	10 U	10 UJ	10 U	10 U	NA	61
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	NA	10 UJ
Vinyl acetate	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	NA	10 U
Vinyl chloride	2	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	NA	10 U
Total VOCs	NE	8991	7961	7833	6856	6936	6850	5474	5532	4949	3264	2686	ND	ND	ND	ND	NA	302
Non-carcinogenic PAHs (ug/L)																		
Acenaphthene	20*	17	17	20	18	20	16	15	16	13	10	11	10 U	10 U	10 U	10 U	NA	20
Acenaphthylene	NE	190 J	180 J	240 J	240 J	240 J	200 J	210 J	170 J	130 J	99 J	120	10 U	10 U	10 U	10 U	NA	16
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Benzo[g,h,i]perylene	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Fluoranthene	50*	1 J	1 J	1 J	1 J	1 J	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Fluorene	50*	41	40	51	45	50	38	36	35	32	20	23	10 U	10 U	10 U	10 U	NA	1 J
Methylnaphthalene, 2-	NE	650	580	810	910 J	890 J	600	760	560	300	220	280	10 U	10 U	10 U	10 U	NA	10 U
Naphthalene	10*	4300	4000	5400	5500	5400	3700	4100	3100	1600	1100	1100	10 U	10 U	10 U	10 U	NA	64
Phenanthrene	50*	38	28	41	37	40	23	26	37	24	19	16	10 U	10 U	10 U	10 U	NA	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Total Non-carcinogenic PAHs	NE	5237	4846	6563	6751	6641	4577	5147	3906	2094	1459	1550	ND	ND	ND	ND	NA	101
Carcinogenic PAHs (ug/L)																		
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	NA	10 U
Chrysene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Total PAHs (ug/L)																		
Total PAHs	NE	ND	4846	6563	6751	6641	4577	5147	3906	2094	1459	1550	ND	ND	ND	ND	NA	101
Other SVOCs (ug/L)																		
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47D OU2MW-47D 3/24/2009	OU2MW-47D OU2MW-47D 4/29/2009	OU2MW-47D OU2MW-47D 5/28/2009	OU2MW-47D OU2MW-47D 6/22/2009	OU2MW-47D DUP-01-JC 6/22/2009	OU2MW-47D OU2MW-47D 7/28/2009	OU2MW-47D OU2MW-47D 8/24/2009	OU2MW-47D OU2MW-47D 9/29/2009	OU2MW-47D OU2MW-47D 10/22/2009	OU2MW-47D OU2MW-47D 11/18/2009	OU2MW-47D OU2MW-47D 12/9/2009	OU2MW-52S OU2MW-52S 6/1/2009	OU2MW-52S OU2MW-52S 8/24/2009	OU2MW-52S DUP-09-Q3 8/24/2009	OU2MW-52S OU2MW-52S 12/8/2009	OU2MW-52S OU2MW-52S 12/21/2009	OU2MW-52I OU2MW-52I 6/1/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	4846	6563	6751	6641	4577	5147	3906	2094	1459	1550	NA	NA	NA	NA	NA	101
Total Metals (ug/L)																		
Aluminum	NE	NA	NA	89.9 UJ	NA	NA	NA	NA	31.6 UJ	NA	NA	50.5 UJ	1670	NA	NA	NA	NA	9.2 UJ
Antimony	3	NA	NA	2.7 U	NA	NA	NA	NA	2.1 U	NA	NA	2.1 U	2.7 U	NA	NA	NA	NA	2.7 U
Arsenic	25	NA	NA	2.8 U	NA	NA	NA	NA	2.3 U	NA	NA	2.3 U	2.8 U	NA	NA	NA	NA	2.8 U
Barium	1000	NA	NA	21.0 J	NA	NA	NA	NA	48.8 J	NA	NA	40.8 J	6.0 J	NA	NA	NA	NA	24.0 J
Beryllium	3*	NA	NA	0.44 UJ	NA	NA	NA	NA	0.26 U	NA	NA	0.26 U	0.16 UJ	NA	NA	NA	NA	0.16 UJ
Cadmium	5	NA	NA	0.70 UJ	NA	NA	NA	NA	0.34 UJ	NA	NA	0.54 UJ	0.23 U	NA	NA	NA	NA	0.23 U
Calcium	NE	NA	NA	12800	NA	NA	NA	NA	23400	NA	NA	14700	4550 J	NA	NA	NA	NA	35900
Chromium	50	NA	NA	0.87 J	NA	NA	NA	NA	0.50 J	NA	NA	0.44 UJ	3.0 J	NA	NA	NA	NA	3.0 J
Chromium (VI)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA
Cobalt	NE	NA	NA	1.2 J	NA	NA	NA	NA	23.4 J	NA	NA	308	1.2 U	NA	NA	NA	NA	1.2 U
Copper	200	NA	NA	1.2 U	NA	NA	NA	NA	1.8 J	NA	NA	5.9 J	5.1 UJ	NA	NA	NA	NA	3.8 UJ
Iron	300	NA	NA	299	NA	NA	NA	NA	992	NA	NA	1570	1590	NA	NA	NA	NA	55.5 J
Lead	25	NA	NA	1.5 U	NA	NA	NA	NA	1.8 U	NA	NA	2.8 J	1.7 J	NA	NA	NA	NA	1.5 U
Magnesium	35000*	NA	NA	5350	NA	NA	NA	NA	9610	NA	NA	5370	1390 J	NA	NA	NA	NA	5370
Manganese	300	NA	NA	2450	NA	NA	NA	NA	4000	NA	NA	2800	7.6 J	NA	NA	NA	NA	412
Mercury	0.7	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	0.10 U
Nickel	100	NA	NA	4.2 J	NA	NA	NA	NA	51.0	NA	NA	62.4 U	2.0 J	NA	NA	NA	NA	2.4 J
Potassium	NE	NA	NA	1830 J	NA	NA	NA	NA	2750 J	NA	NA	4070 J	1050 J	NA	NA	NA	NA	2610 J
Selenium	10	NA	NA	2.7 UJ	NA	NA	NA	NA	2.5 U	NA	NA	2.5 UJ	2.7 U	NA	NA	NA	NA	2.7 U
Silver	50	NA	NA	0.61 J	NA	NA	NA	NA	0.83 UJ	NA	NA	0.83 U	0.60 U	NA	NA	NA	NA	0.60 U
Sodium	20000*	NA	NA	37000	NA	NA	NA	NA	66000 J	NA	NA	61300	6650 J	NA	NA	NA	NA	53500 J
Thallium	0.5*	NA	NA	3.3 U	NA	NA	NA	NA	3.2 U	NA	NA	3.2 U	3.3 U	NA	NA	NA	NA	3.3 U
Vanadium	NE	NA	NA	0.97 U	NA	NA	NA	NA	1.4 U	NA	NA	1.4 U	2.8 J	NA	NA	NA	NA	0.97 U
Zinc	2000*	NA	NA	35.7	NA	NA	NA	NA	2.0 J	NA	NA	762	18.2 UJ	NA	NA	NA	NA	8.9 UJ

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-47D OU2MW-47D 3/24/2009	OU2MW-47D OU2MW-47D 4/29/2009	OU2MW-47D OU2MW-47D 5/28/2009	OU2MW-47D OU2MW-47D 6/22/2009	OU2MW-47D DUP-01-JC 6/22/2009	OU2MW-47D OU2MW-47D 7/28/2009	OU2MW-47D OU2MW-47D 8/24/2009	OU2MW-47D OU2MW-47D 9/29/2009	OU2MW-47D OU2MW-47D 10/22/2009	OU2MW-47D OU2MW-47D 11/18/2009	OU2MW-47D OU2MW-47D 12/9/2009	OU2MW-52S OU2MW-52S 6/1/2009	OU2MW-52S OU2MW-52S 8/24/2009	OU2MW-52S DUP-09-Q3 8/24/2009	OU2MW-52S OU2MW-52S 12/8/2009	OU2MW-52S OU2MW-52S 12/21/2009	OU2MW-52I OU2MW-52I 6/1/2009	
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.434	0.376	0.276	0.279	NA	0.460	0.434	0.621	NA	NA	NA	0.085	0.069	NA	NA	NA	NA	0.545
Dissolved Oxygen (mg/L)	NE	20	23	16.55	32	NA	27	18.6	26	NA	NA	NA	ND	ND	NA	NA	NA	NA	2.17
Nitrogen, Ammonia (ug/L)	2000	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	100 U	100 U	NA	NA	NA	NA	NA	100 U
Nitrogen, Nitrate (ug/L)	10000	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	100 UJ	260	NA	NA	NA	NA	NA	6420
Nitrogen, Nitrite (ug/L)	1000	NA	NA	100 U	NA	NA	NA	NA	100 U	NA	NA	100	100 U	NA	NA	NA	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	340	NA	NA	NA	NA	770	NA	NA	1280	460	NA	NA	NA	NA	NA	6730
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	340	NA	NA	NA	NA	770	NA	NA	1280	200	NA	NA	NA	NA	NA	310
Oxidation Reduction Potential (mV)	NE	120	157	128	156	NA	240	167	100	NA	NA	NA	314	-35	NA	NA	NA	NA	293
pH (S.U.)	NE	5.19	5.63	5.8	5.67	NA	4.65	5.52	5.45	NA	NA	NA	5.11	5.34	NA	NA	NA	NA	5.91
Standard Plate Count (cfu/ml)	NE	14000	NA	84000 J	89100 J	NA	NA	NA	360	NA	NA	125400 J	100 J	NA	NA	NA	NA	NA	480 J
Sulfate (ug/L)	250000	NA	NA	35300	NA	NA	NA	NA	197000	NA	NA	117000	7560	NA	NA	NA	NA	NA	22400
Sulfide (ug/L)	50*	NA	NA	1000 U	NA	NA	NA	NA	2000 U	NA	NA	2000 U	1000 U	NA	NA	NA	NA	NA	1000 U
Temperature at Analysis (deg c)	NE	12.28	14.4	14	14.68	NA	16.1	16.7	15.53	NA	NA	NA	12.37	20	NA	NA	NA	NA	11.92
Total Phosphorous (ug/L)	NE	NA	NA	50 U	NA	NA	NA	NA	50 U	NA	NA	50 UJ	50 U	NA	NA	NA	NA	NA	50 U

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Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-521 DUP-01-18G 6/1/2009	OU2MW-521 OU2MW-521 8/24/2009	OU2MW-521 OU2MW-521 12/8/2009	OU2MW-521 OU2MW-521 12/21/2009	OU2MW-52D OU2MW-52D 6/1/2009	OU2MW-52D OU2MW-52D 8/24/2009	OU2MW-52D OU2MW-52D 12/8/2009	OU2MW-52D OU2MW-52D 12/22/2009	OU2MW-53S OU2MW-53S 6/1/2009	OU2MW-53S OU2MW-53S 8/20/2009	OU2MW-53S OU2MW-53S 12/4/2009	OU2MW-53S OU2MW-53S 12/30/2009	OU2MW-53I OU2MW-53I 6/1/2009	OU2MW-53I OU2MW-53I 8/20/2009	OU2MW-53I OU2MW-53I 12/4/2009	OU2MW-53I OU2MW-53I 12/30/2009	OU2MW-53I DUP-HC 12/30/2009	OU2MW-53D OU2MW-53D 6/1/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 UJ	NA	10 U	10 U	10 UJ	NA	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	NA	NA	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Trichloroethene	5	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Trichlorofluoromethane	5	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 UJ	NA	NA	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	16	10 UJ	10 U	NA	10 U	10 UJ	10 U	NA	10 U	10 UJ	10 U	NA	10 U	10 UJ	10 U	NA	NA	10 U
Trimethylbenzene, 1,2,4-	5	62	10 U	10 U	NA	10 U	10 UJ	10 U	NA	10 U	10 UJ	10 U	NA	10 U	10 UJ	10 U	NA	NA	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	NA	10 UJ	10 U	10 UJ	NA	10 UJ	10 U	10 UJ	NA	10 UJ	10 U	10 U	NA	NA	10 UJ
Vinyl acetate	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 UJ	NA	NA	10 U
Vinyl chloride	2	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 UJ	NA	NA	10 U
Total VOCs	NE	305	ND	2	NA	30	25	ND	NA	ND	ND	ND	NA	16	25	ND	NA	NA	27
Non-carcinogenic PAHs (ug/L)																			
Acenaphthene	20*	19	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Acenaphthylene	NE	16	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Anthracene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Fluoranthene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Fluorene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Naphthalene	10*	61	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Phenanthrene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Pyrene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Total Non-carcinogenic PAHs	NE	96	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA	ND
Carcinogenic PAHs (ug/L)																			
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Chrysene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	10 U	10 U	NA	NA	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA	ND
Total PAHs (ug/L)																			
Total PAHs	NE	96	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA	ND
Other SVOCs (ug/L)																			
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-52I	OU2MW-52I	OU2MW-52I	OU2MW-52I	OU2MW-52D	OU2MW-52D	OU2MW-52D	OU2MW-52D	OU2MW-53S	OU2MW-53S	OU2MW-53S	OU2MW-53S	OU2MW-53I	OU2MW-53I	OU2MW-53I	OU2MW-53I	OU2MW-53I	OU2MW-53D
		DUP-01-18G 6/1/2009	OU2MW-52I 8/24/2009	OU2MW-52I 12/8/2009	OU2MW-52I 12/21/2009	OU2MW-52D 6/1/2009	OU2MW-52D 8/24/2009	OU2MW-52D 12/8/2009	OU2MW-52D 12/22/2009	OU2MW-53S 6/1/2009	OU2MW-53S 8/20/2009	OU2MW-53S 12/4/2009	OU2MW-53S 12/30/2009	OU2MW-53I 6/1/2009	OU2MW-53I 8/20/2009	OU2MW-53I 12/4/2009	OU2MW-53I 12/30/2009	OU2MW-53I DUP-HC 12/30/2009	OU2MW-53D 6/1/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																			
Aluminum	NE	NA	NA	NA	NA	9.2 UJ	NA	NA	NA	1500	NA	NA	NA	9.2 UJ	NA	NA	NA	NA	9.2 UJ
Antimony	3	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.7 U	NA	NA	NA	2.7 U	NA	NA	NA	NA	2.7 U
Arsenic	25	NA	NA	NA	NA	2.8 U	NA	NA	NA	2.8 U	NA	NA	NA	2.8 U	NA	NA	NA	NA	5.5 J
Barium	1000	NA	NA	NA	NA	11.3 J	NA	NA	NA	4.3 J	NA	NA	NA	4.1 J	NA	NA	NA	NA	7.9 J
Beryllium	3*	NA	NA	NA	NA	0.16 UJ	NA	NA	NA	0.16 UJ	NA	NA	NA	0.16 UJ	NA	NA	NA	NA	0.16 UJ
Cadmium	5	NA	NA	NA	NA	0.34 UJ	NA	NA	NA	0.23 U	NA	NA	NA	0.23 U	NA	NA	NA	NA	0.23 U
Calcium	NE	NA	NA	NA	NA	7810	NA	NA	NA	12800	NA	NA	NA	7170	NA	NA	NA	NA	11200
Chromium	50	NA	NA	NA	0.44 U	2.5 J	NA	NA	1.1 J	2.9 J	NA	NA	1.4 UJ	0.89 J	NA	NA	1.3 UJ	1.1 UJ	2.4 J
Chromium (VI)	NE	NA	NA	NA	20 U	NA	NA	NA	20 U	NA	NA	NA	20 U	NA	NA	NA	20 U	20 U	NA
Cobalt	NE	NA	NA	NA	NA	3.6 J	NA	NA	NA	1.2 U	NA	NA	NA	1.2 U	NA	NA	NA	NA	15.4 J
Copper	200	NA	NA	NA	NA	3.5 UJ	NA	NA	NA	8.8 UJ	NA	NA	NA	3.5 UJ	NA	NA	NA	NA	4.0 UJ
Iron	300	NA	NA	NA	NA	96.4 J	NA	NA	NA	1260	NA	NA	NA	36.0 J	NA	NA	NA	NA	25200
Lead	25	NA	NA	NA	NA	1.8 J	NA	NA	NA	1.5 U	NA	NA	NA	1.5 U	NA	NA	NA	NA	1.5 U
Magnesium	35000*	NA	NA	NA	NA	2990 J	NA	NA	NA	2600 J	NA	NA	NA	830 J	NA	NA	NA	NA	4170 J
Manganese	300	NA	NA	NA	NA	9030	NA	NA	NA	11.7 J	NA	NA	NA	6.3 J	NA	NA	NA	NA	5660
Mercury	0.7	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
Nickel	100	NA	NA	NA	NA	2.6 J	NA	NA	NA	2.2 J	NA	NA	NA	1.6 J	NA	NA	NA	NA	3.0 J
Potassium	NE	NA	NA	NA	NA	1210 J	NA	NA	NA	1910 J	NA	NA	NA	863 J	NA	NA	NA	NA	1310 J
Selenium	10	NA	NA	NA	NA	2.7 U	NA	NA	NA	2.7 U	NA	NA	NA	2.7 U	NA	NA	NA	NA	2.7 U
Silver	50	NA	NA	NA	NA	0.88 J	NA	NA	NA	0.60 U	NA	NA	NA	0.60 U	NA	NA	NA	NA	0.81 J
Sodium	20000*	NA	NA	NA	NA	31400 J	NA	NA	NA	4580 J	NA	NA	NA	5170 J	NA	NA	NA	NA	21700 J
Thallium	0.5*	NA	NA	NA	NA	3.3 U	NA	NA	NA	3.3 U	NA	NA	NA	3.3 U	NA	NA	NA	NA	3.3 U
Vanadium	NE	NA	NA	NA	NA	0.97 U	NA	NA	NA	3.2 J	NA	NA	NA	0.97 U	NA	NA	NA	NA	0.97 U
Zinc	2000*	NA	NA	NA	NA	3.9 UJ	NA	NA	NA	17.2 UJ	NA	NA	NA	8.7 UJ	NA	NA	NA	NA	1.3 U

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-52I DUP-01-18G 6/1/2009	OU2MW-52I OU2MW-52I 8/24/2009	OU2MW-52I OU2MW-52I 12/8/2009	OU2MW-52I OU2MW-52I 12/21/2009	OU2MW-52D OU2MW-52D 6/1/2009	OU2MW-52D OU2MW-52D 8/24/2009	OU2MW-52D OU2MW-52D 12/8/2009	OU2MW-52D OU2MW-52D 12/22/2009	OU2MW-53S OU2MW-53S 6/1/2009	OU2MW-53S OU2MW-53S 8/20/2009	OU2MW-53S OU2MW-53S 12/4/2009	OU2MW-53S OU2MW-53S 12/30/2009	OU2MW-53I OU2MW-53I 6/1/2009	OU2MW-53I OU2MW-53I 8/20/2009	OU2MW-53I OU2MW-53I 12/4/2009	OU2MW-53I OU2MW-53I 12/30/2009	OU2MW-53I DUP-HC 12/30/2009	OU2MW-53D OU2MW-53D 6/1/2009
Cyanides (ug/L)																			
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																			
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	NA	0.501	NA	NA	0.288	0.303	NA	NA	0.126	0.119	NA	NA	0.081	0.079	NA	NA	NA	0.337
Dissolved Oxygen (mg/L)	NE	NA	7.5	NA	NA	32	19.4	NA	NA	ND	ND	NA	NA	29	2.1	NA	NA	NA	ND
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	220
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	320	NA	NA	NA	1670	NA	NA	NA	100	NA	NA	NA	NA	100
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	100 U
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	540	NA	NA	NA	2560	NA	NA	NA	100	NA	NA	NA	NA	710
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	220	NA	NA	NA	890	NA	NA	NA	100 U	NA	NA	NA	NA	610
Oxidation Reduction Potential (mV)	NE	NA	85	NA	NA	310	140	NA	NA	179	57	NA	NA	290	56	NA	NA	NA	-86
pH (S.U.)	NE	NA	5.94	NA	NA	5.96	5.48	NA	NA	6.14	5.83	NA	NA	6.09	6.56	NA	NA	NA	7.33
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	340 J	NA	NA	NA	240 J	NA	NA	NA	120 J	NA	NA	NA	NA	65 J
Sulfate (ug/L)	250000	NA	NA	NA	NA	16500	NA	NA	NA	7020	NA	NA	NA	5000 U	NA	NA	NA	NA	10200
Sulfide (ug/L)	50*	NA	NA	NA	NA	1000 U	NA	NA	NA	1000 U	NA	NA	NA	1000 U	NA	NA	NA	NA	1000 U
Temperature at Analysis (deg c)	NE	NA	16.3	NA	NA	12.73	16.1	NA	NA	13.93	19.5	NA	NA	12.19	14.9	NA	NA	NA	13.28
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	50 U	NA	NA	NA	180	NA	NA	NA	50 U	NA	NA	NA	NA	60

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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-53D OU2MW-53D 8/20/2009	OU2MW-53D OU2MW-53D 12/4/2009	OU2MW-53D DUP-15 Q4 12/4/2009	OU2MW-53D OU2MW-53D 12/30/2009	OU2PZ-01 OU2PZ-01 7/28/2009	OU2PZ-01 OU2PZ-01 8/19/2009	OU2PZ-01 OU2PZ-01 9/10/2009	OU2PZ-02 OU2PZ-02 7/28/2009	OU2PZ-02 OU2PZ-02 8/19/2009	OU2PZ-02 OU2PZ-02 9/10/2009	OU2PZ-03 OU2PZ-03 7/28/2009	OU2PZ-03 DUP-18G 7/28/2009	OU2PZ-03 OU2PZ-03 8/19/2009	OU2PZ-03 DUP-18G 8/19/2009	OU2PZ-03 OU2PZ-03 9/10/2009	OU2PZ-03 DUP-18G 9/10/2009	OU2PZ-04 OU2PZ-04 7/28/2009	OU2PZ-04 OU2PZ-04 8/19/2009	OU2PZ-04 OU2PZ-04 9/10/2009
Trichloroethane, 1,1,1-	5	10 U	10 U	10 UJ	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethane, 1,1,2-	1	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	5	10 U	10 UJ	10 U	NA	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 UJ	10 U	10 U	NA	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ
Trimethylbenzene, 1,2,4-	5	10 UJ	10 U	10 U	NA	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 UJ	NA	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Vinyl acetate	NE	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	2	10 U	10 UJ	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NE	6	4	5	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Non-carcinogenic PAHs (ug/L)																				
Acenaphthene	20*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[g,h,i]perylene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/L)																				
Benzo[a]anthracene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[b]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[k]fluoranthene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz[a,h]anthracene	NE	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno[1,2,3-cd]pyrene	0.002*	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)																				
Total PAHs	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other SVOCs (ug/L)																				
Bis(2-chloroethoxy)methane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(chloroisopropyl)ether	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloro-3-methylphenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloronaphthalene, 2-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophenyl phenyl ether, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,2-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,3-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzene, 1,4-	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorobenzidine, 3,3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorophenol, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphenol, 2,4-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitro-2-methylphenol, 4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrophenol, 2,4-	10*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinitrotoluene, 2,6-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
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Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-53D OU2MW-53D 8/20/2009	OU2MW-53D OU2MW-53D 12/4/2009	OU2MW-53D DUP-15 Q4 12/4/2009	OU2MW-53D OU2MW-53D 12/30/2009	OU2PZ-01 OU2PZ-01 7/28/2009	OU2PZ-01 OU2PZ-01 8/19/2009	OU2PZ-01 OU2PZ-01 9/10/2009	OU2PZ-02 OU2PZ-02 7/28/2009	OU2PZ-02 OU2PZ-02 8/19/2009	OU2PZ-02 OU2PZ-02 9/10/2009	OU2PZ-03 OU2PZ-03 7/28/2009	OU2PZ-03 DUP-18G 7/28/2009	OU2PZ-03 OU2PZ-03 8/19/2009	OU2PZ-03 DUP-18G 8/19/2009	OU2PZ-03 OU2PZ-03 9/10/2009	OU2PZ-03 DUP-18G 9/10/2009	OU2PZ-04 OU2PZ-04 7/28/2009	OU2PZ-04 OU2PZ-04 8/19/2009	OU2PZ-04 OU2PZ-04 9/10/2009
Hexachlorocyclopentadiene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 2-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylphenol, 4-	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 2-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 3-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitroaniline, 4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrophenol, 4-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodi-n-propylamine, N-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrosodiphenylamine, N-	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorobenzene, 1,2,4-	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenol, 2,4,6-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total SVOCs	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (ug/L)																				
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	3*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	0.59 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	NE	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
 Analytical Groundwater Data Summary
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

Validated

Location Code: Sample Name: Sample Date:	NYS AWQS	OU2MW-53D OU2MW-53D 8/20/2009	OU2MW-53D OU2MW-53D 12/4/2009	OU2MW-53D DUP-15 Q4 12/4/2009	OU2MW-53D OU2MW-53D 12/30/2009	OU2PZ-01 OU2PZ-01 7/28/2009	OU2PZ-01 OU2PZ-01 8/19/2009	OU2PZ-01 OU2PZ-01 9/10/2009	OU2PZ-02 OU2PZ-02 7/28/2009	OU2PZ-02 OU2PZ-02 8/19/2009	OU2PZ-02 OU2PZ-02 9/10/2009	OU2PZ-03 OU2PZ-03 7/28/2009	OU2PZ-03 DUP-18G 7/28/2009	OU2PZ-03 OU2PZ-03 8/19/2009	OU2PZ-03 DUP-18G 8/19/2009	OU2PZ-03 OU2PZ-03 9/10/2009	OU2PZ-03 DUP-18G 9/10/2009	OU2PZ-04 OU2PZ-04 7/28/2009	OU2PZ-04 OU2PZ-04 8/19/2009	OU2PZ-04 OU2PZ-04 9/10/2009
Cyanides (ug/L)																				
Cyanide, Total	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																				
Alkalinity (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity (mS/cm)	NE	0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen (mg/L)	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Ammonia (ug/L)	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate (ug/L)	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrite (ug/L)	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential (mV)	NE	-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (S.U.)	NE	6.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count (cfu/ml)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate (ug/L)	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide (ug/L)	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature at Analysis (deg c)	NE	15.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous (ug/L)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K
Analytical Groundwater Data Summary
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Validated

Notes:

ug/L - micrograms per liter or parts per billion (ppb)
mS/cm - microSiemens per centimeter
mg/l - milligrams per liter
mV - millivolts
S.U. - standard units
cfu/ml - colony forming units per 1 milliliter
deg c - degrees Celsius

BTEX - benzene, toluene, ethylbenzene, and xylenes
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
Total BTEX, Total VOCs, Total PAHs, and Total SVOCs are calculated using detects only.

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

NE - not established
NA - not analyzed
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Bolding indicates a detected concentration
Shading and bolding indicates that the detected concentration is above the NYS AWQS objective it was compared to

Validation Qualifiers:

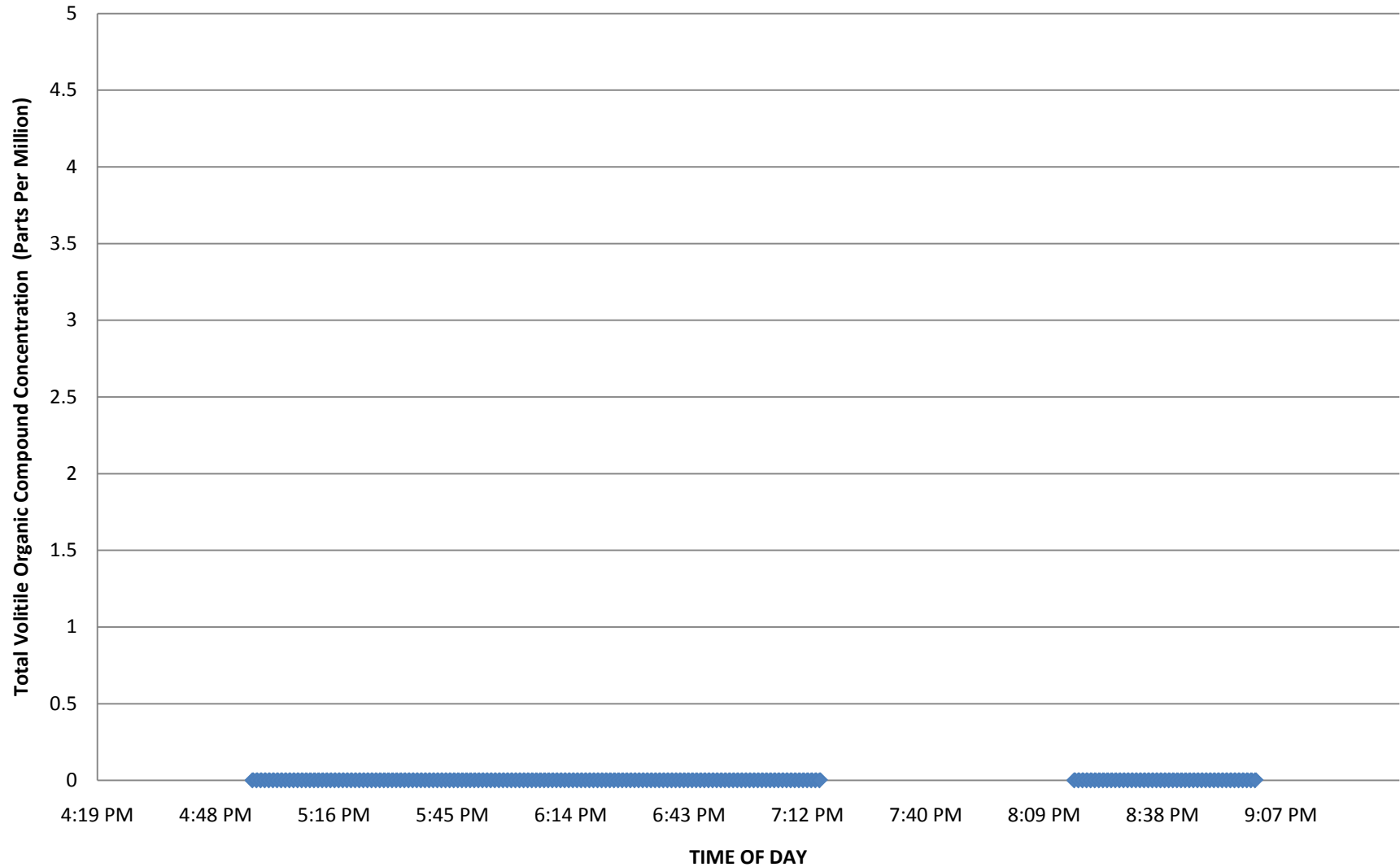
J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
R - rejected

Appendix L

Soil Vapor Data

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

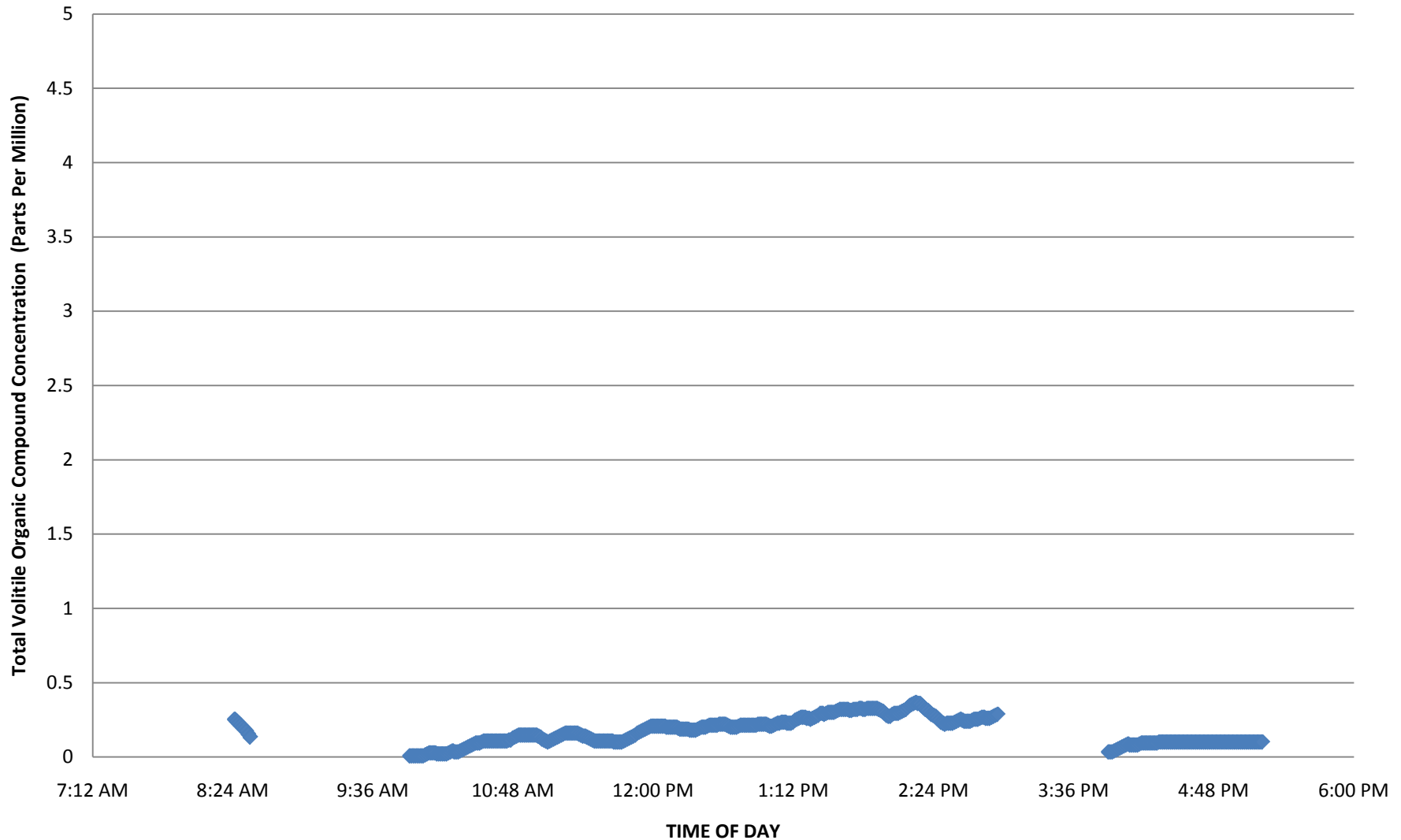
OU2SG-20
33 North Clinton System - Day 1 - 03/31/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

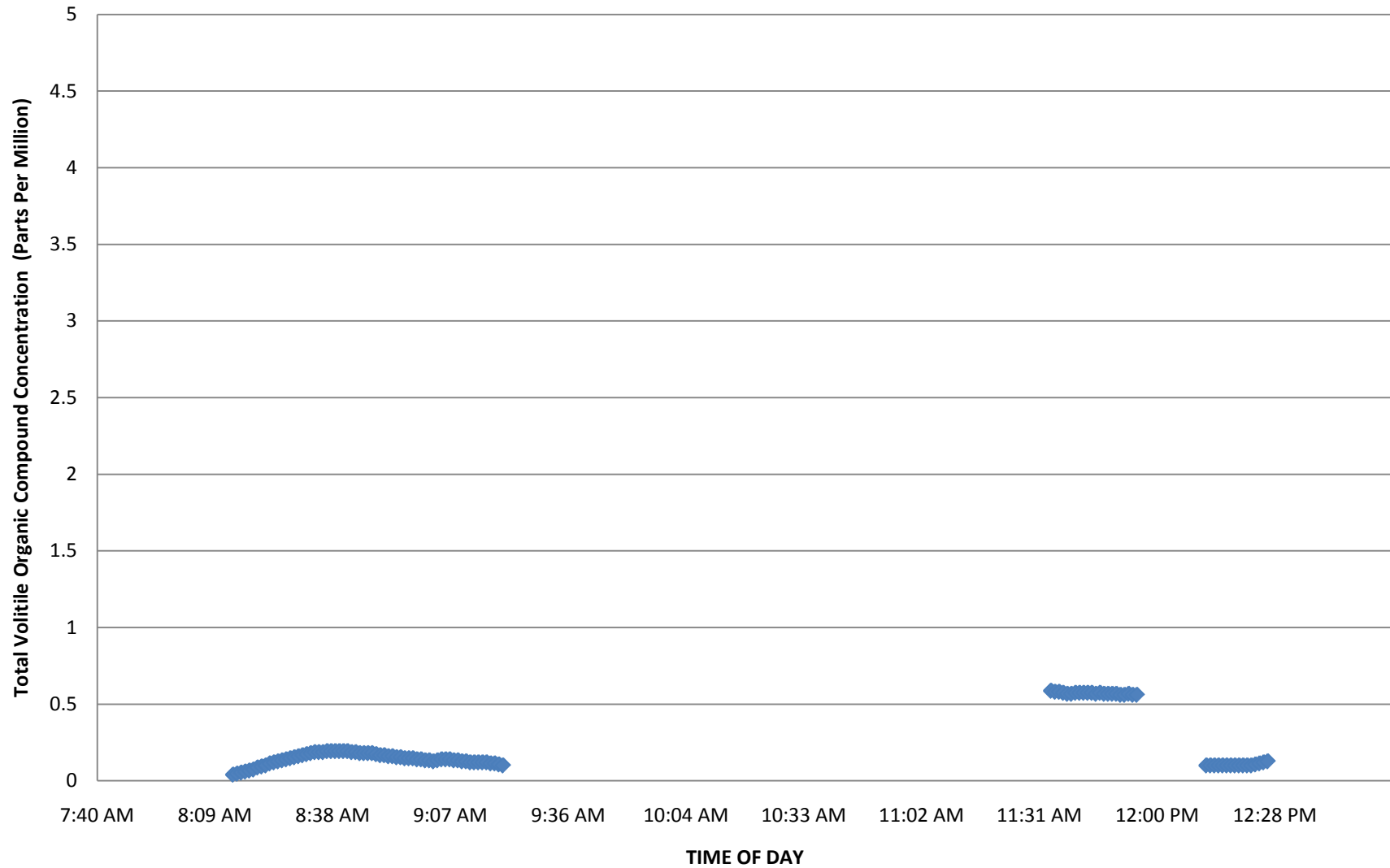
OU2SG-20
33 North Clinton System - Day 2 - 04/01/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

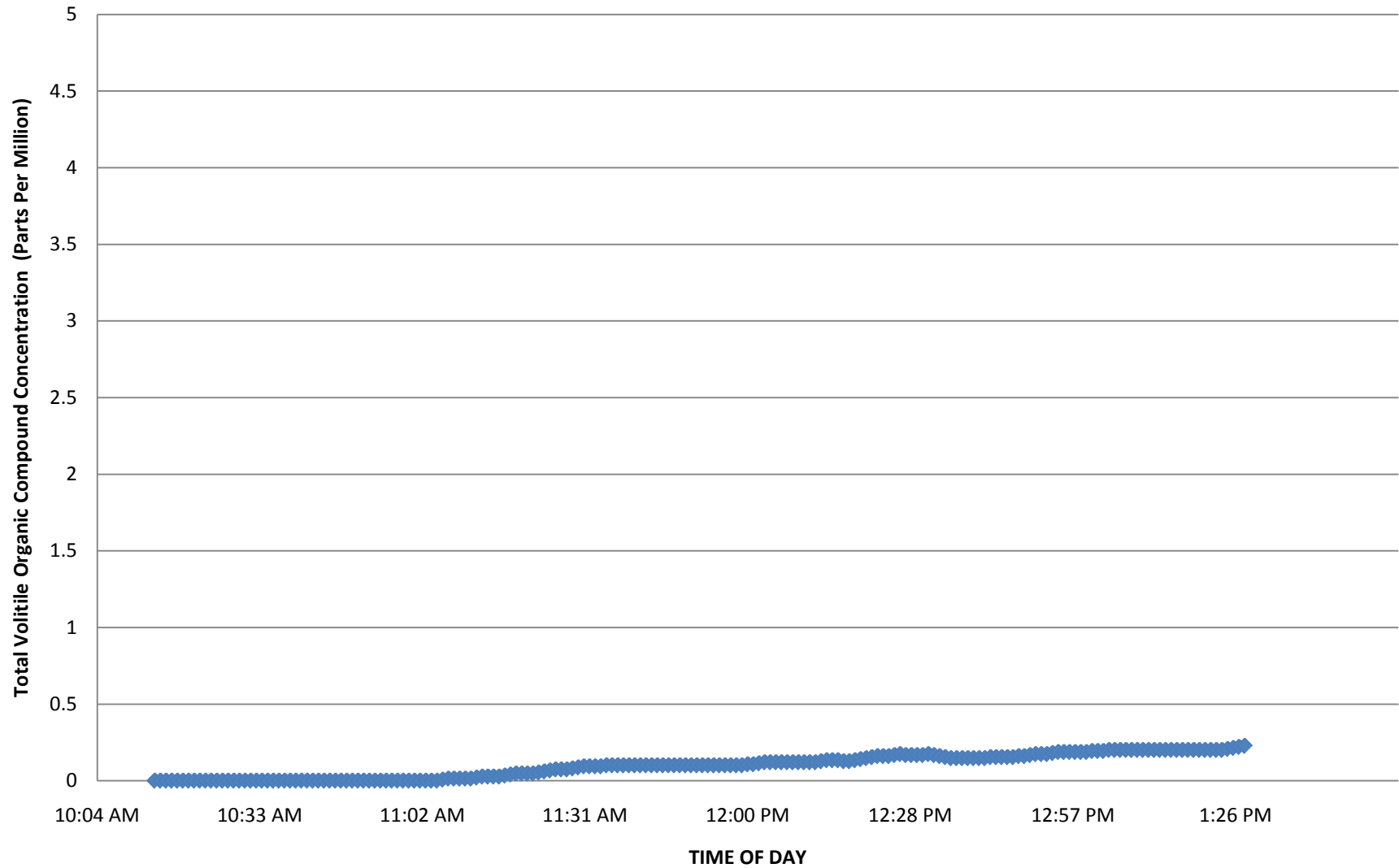
OU2SG-20
33 North Clinton System - Day 3 - 04/02/09



◆ 15 Mintue Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

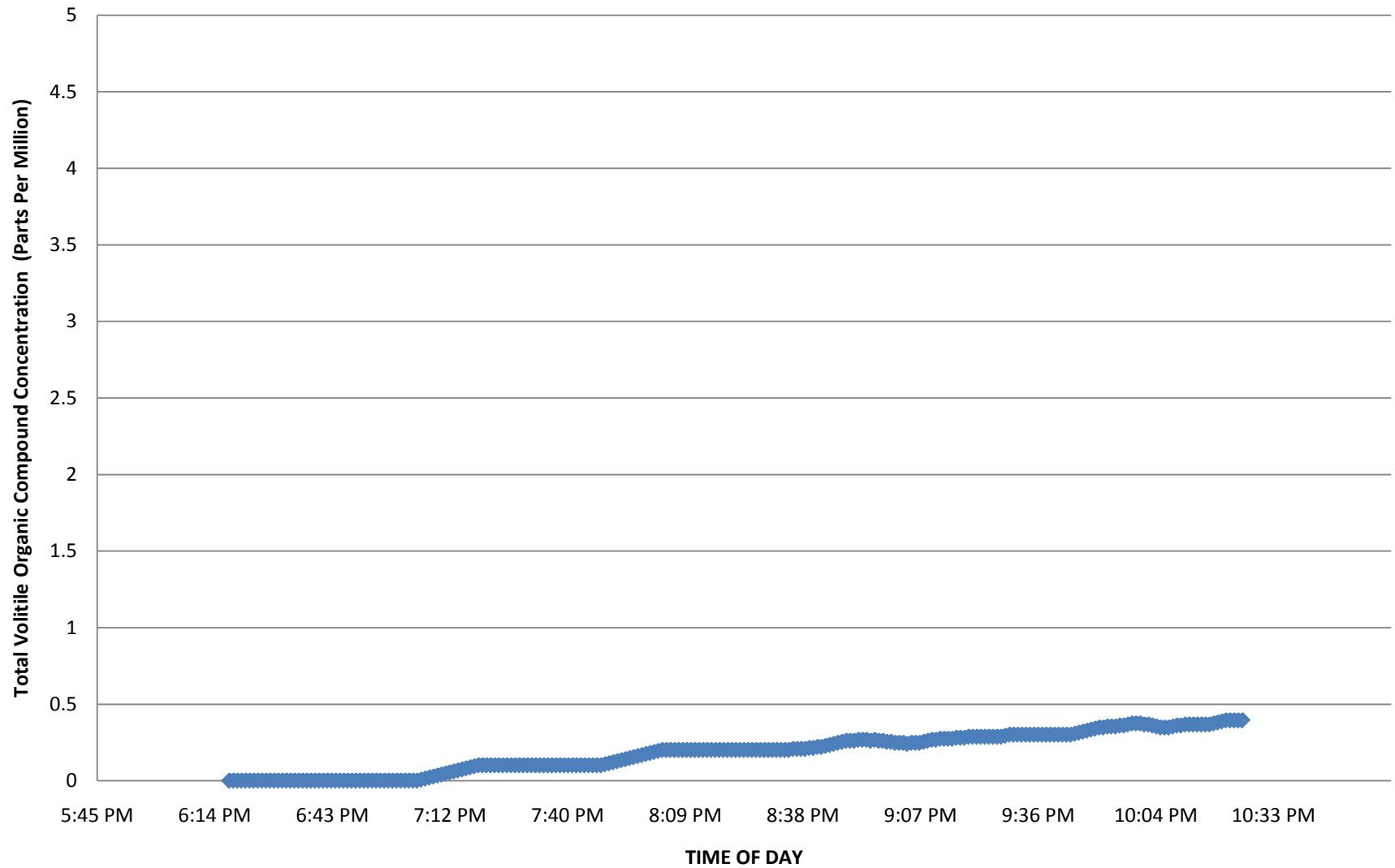
OU2SG-20
33 North Clinton System - Day 4 - 04/03/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

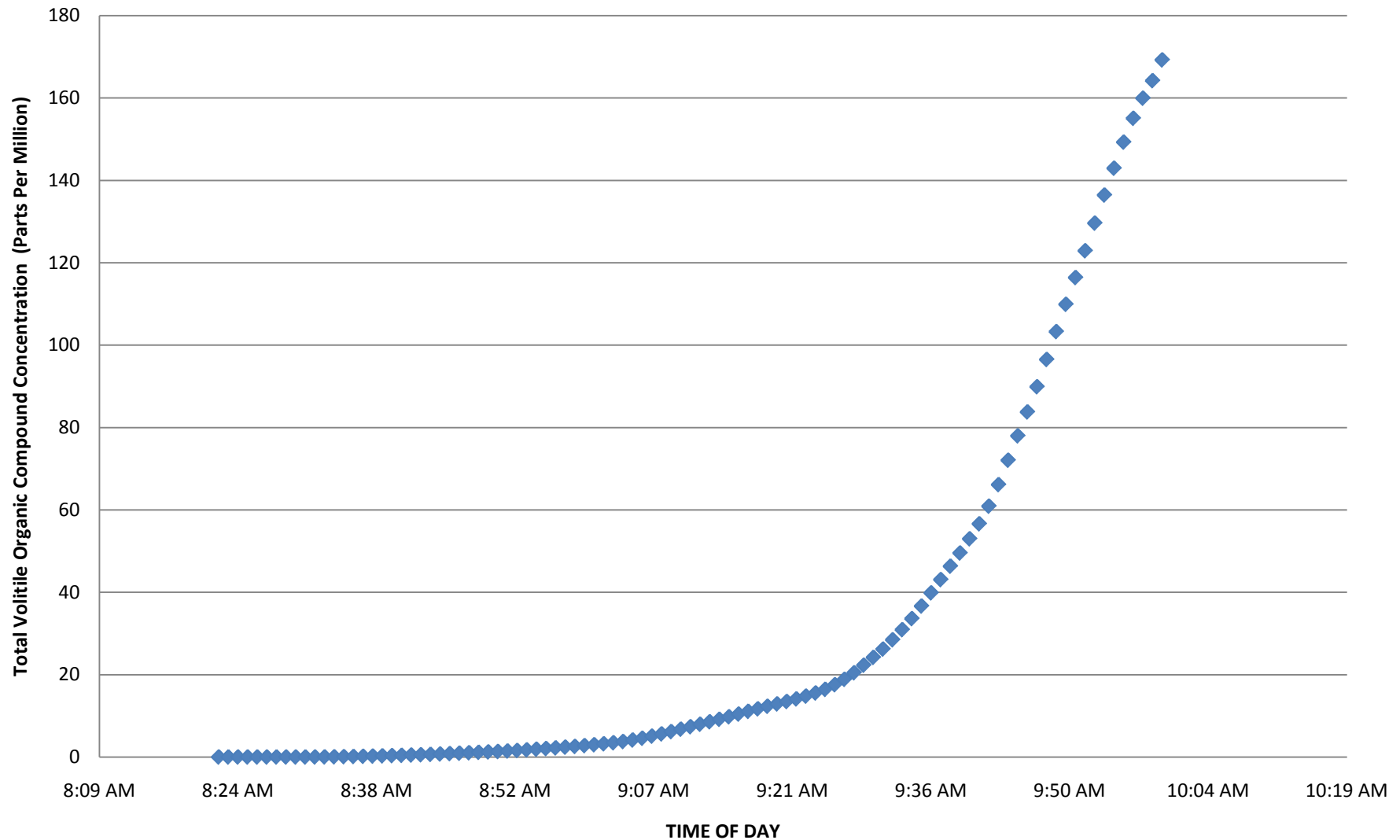
OU2SG-20
33 North Clinton System - Day 5 - 04/05/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

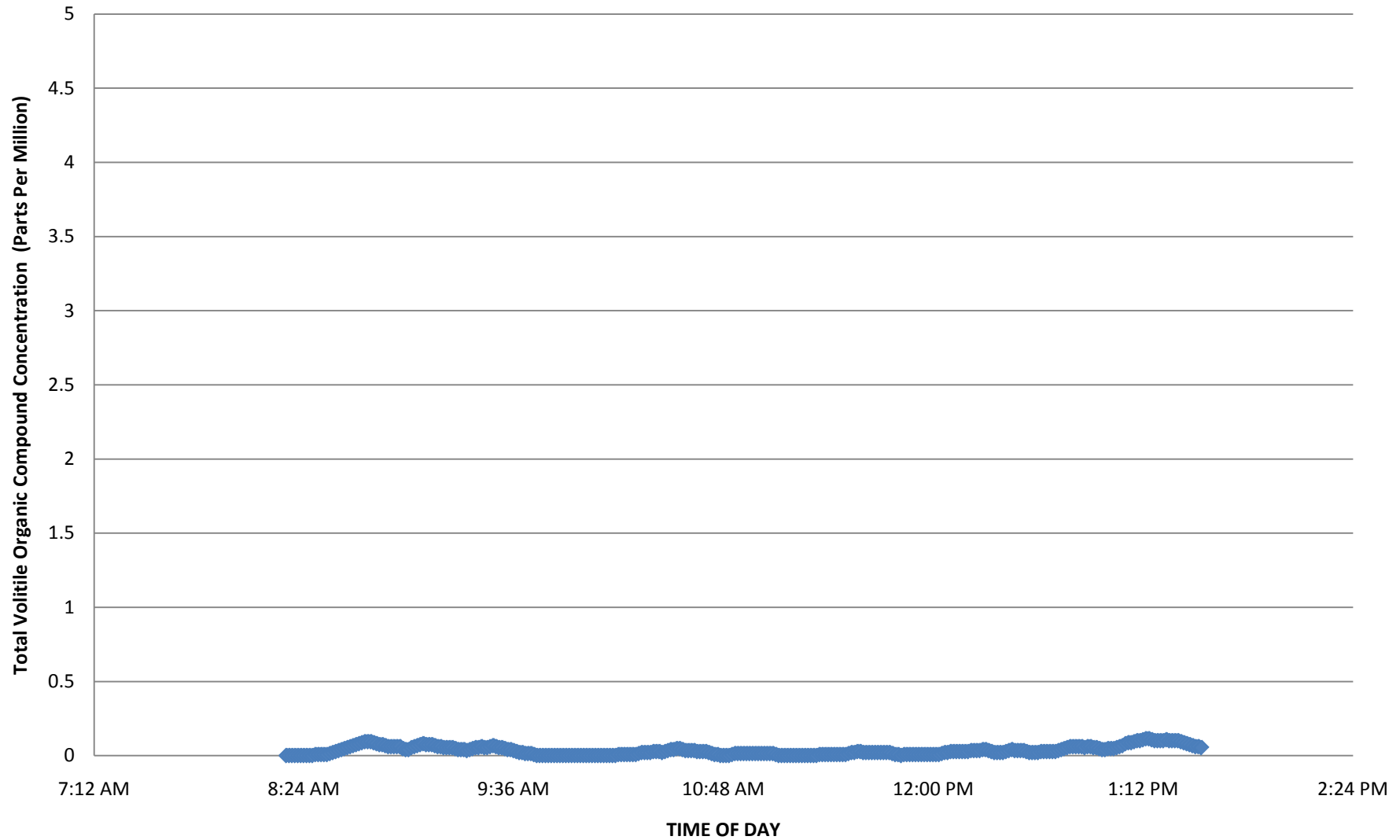
OU2SG-20
33 North Clinton System - Day 6 - 04/06/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-20
33 North Clinton System - Day -7 - 04/07/09

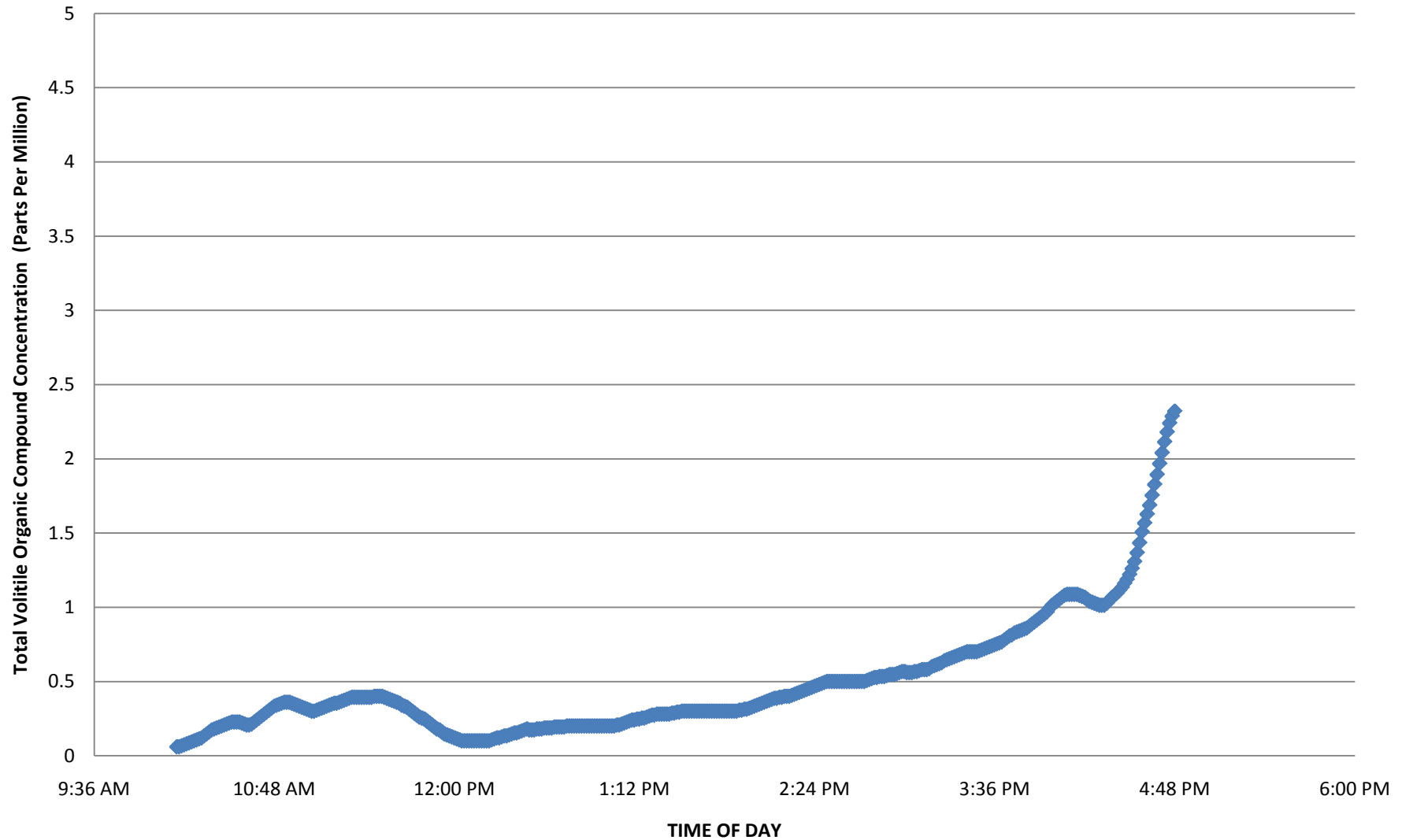


◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-16

33 North Clinton System Cooper Lane Extension - Day 1 - 11/16/09

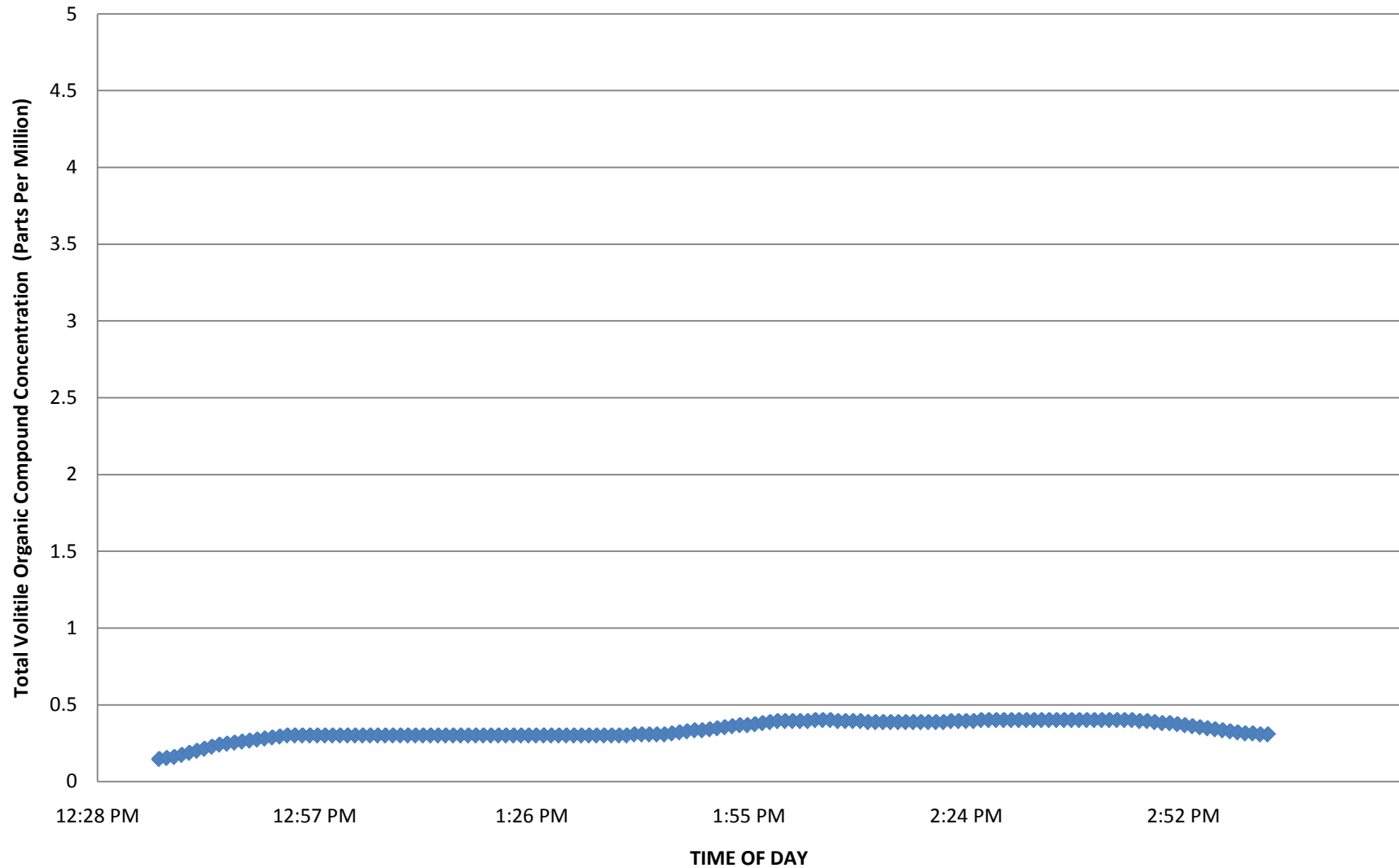


◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-16

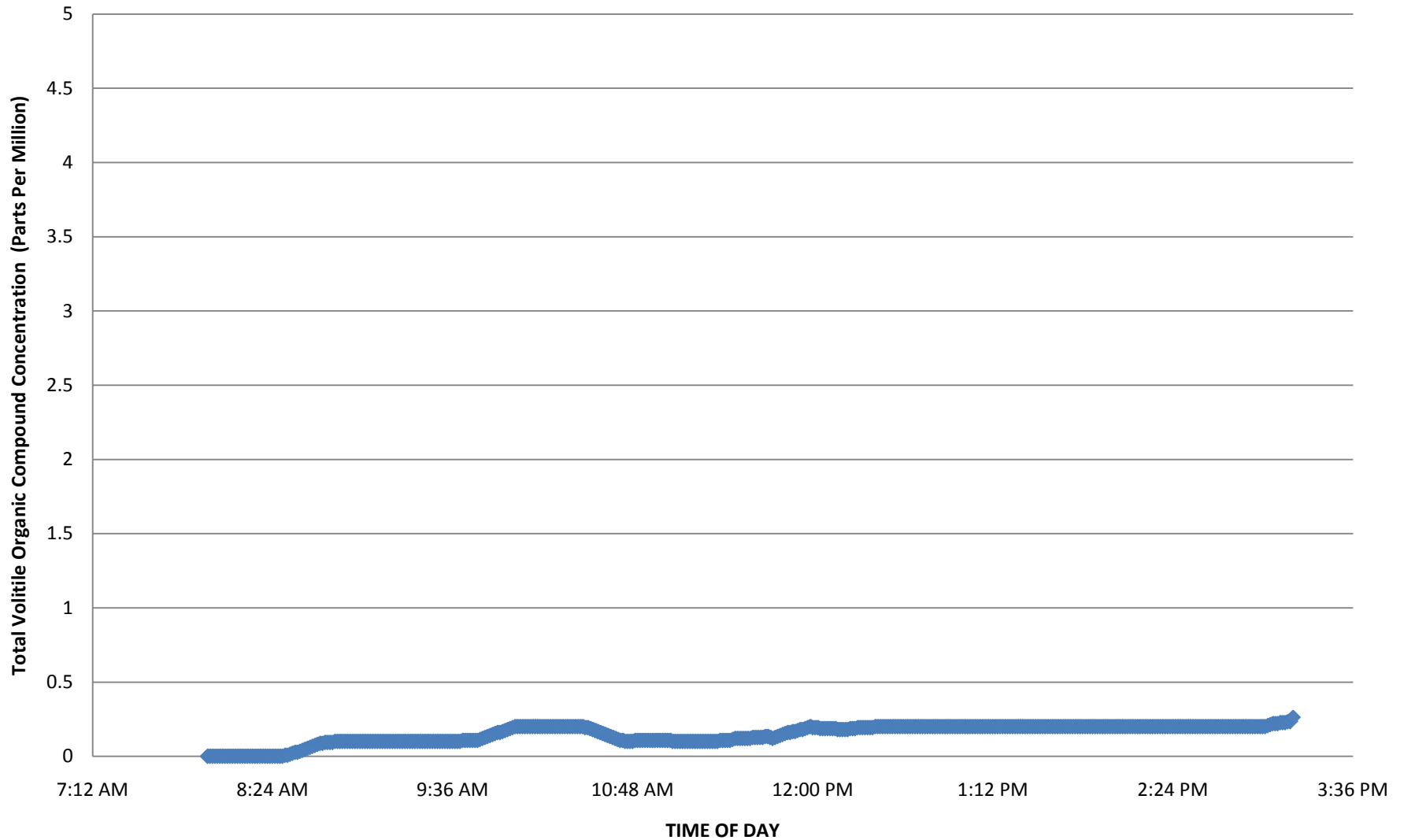
33 North Clinton System Cooper Lane Extension - Day 2 - 11/17/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-16 33 North Clinton System Cooper Lane Extension - Day 3 -11/18/09

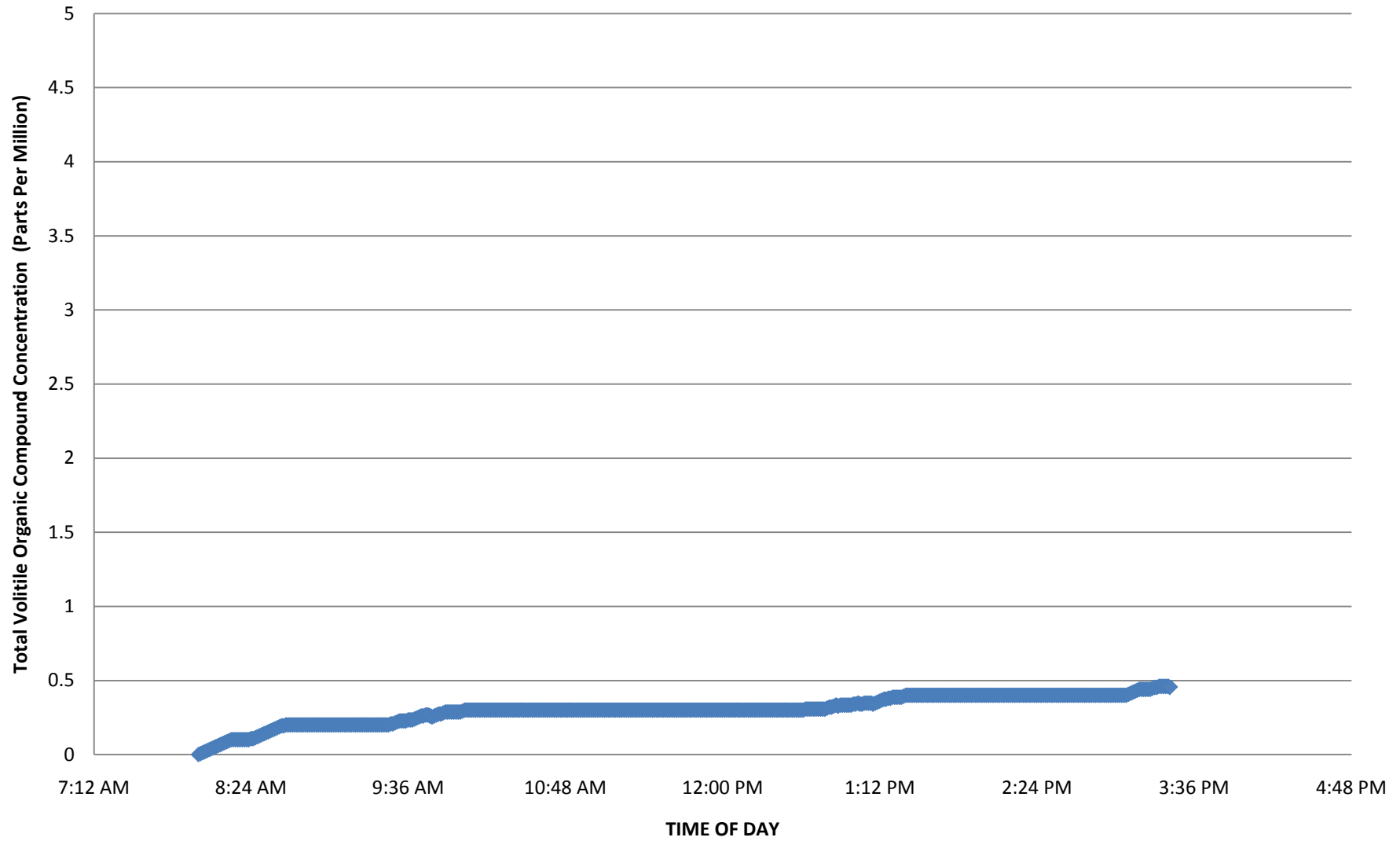


◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-16

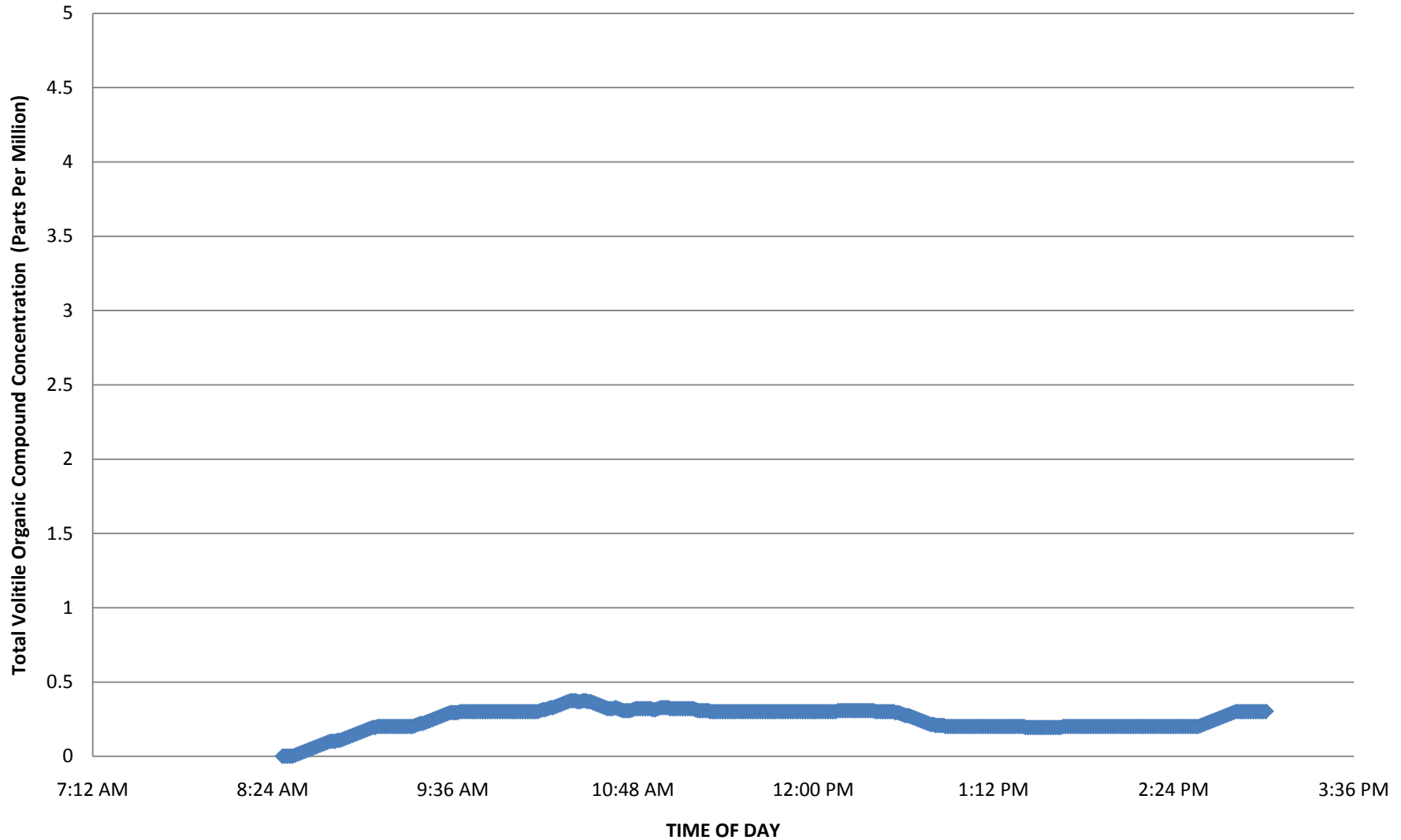
33 North Clinton System Cooper Lane Extension - Day 4 -11/19/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

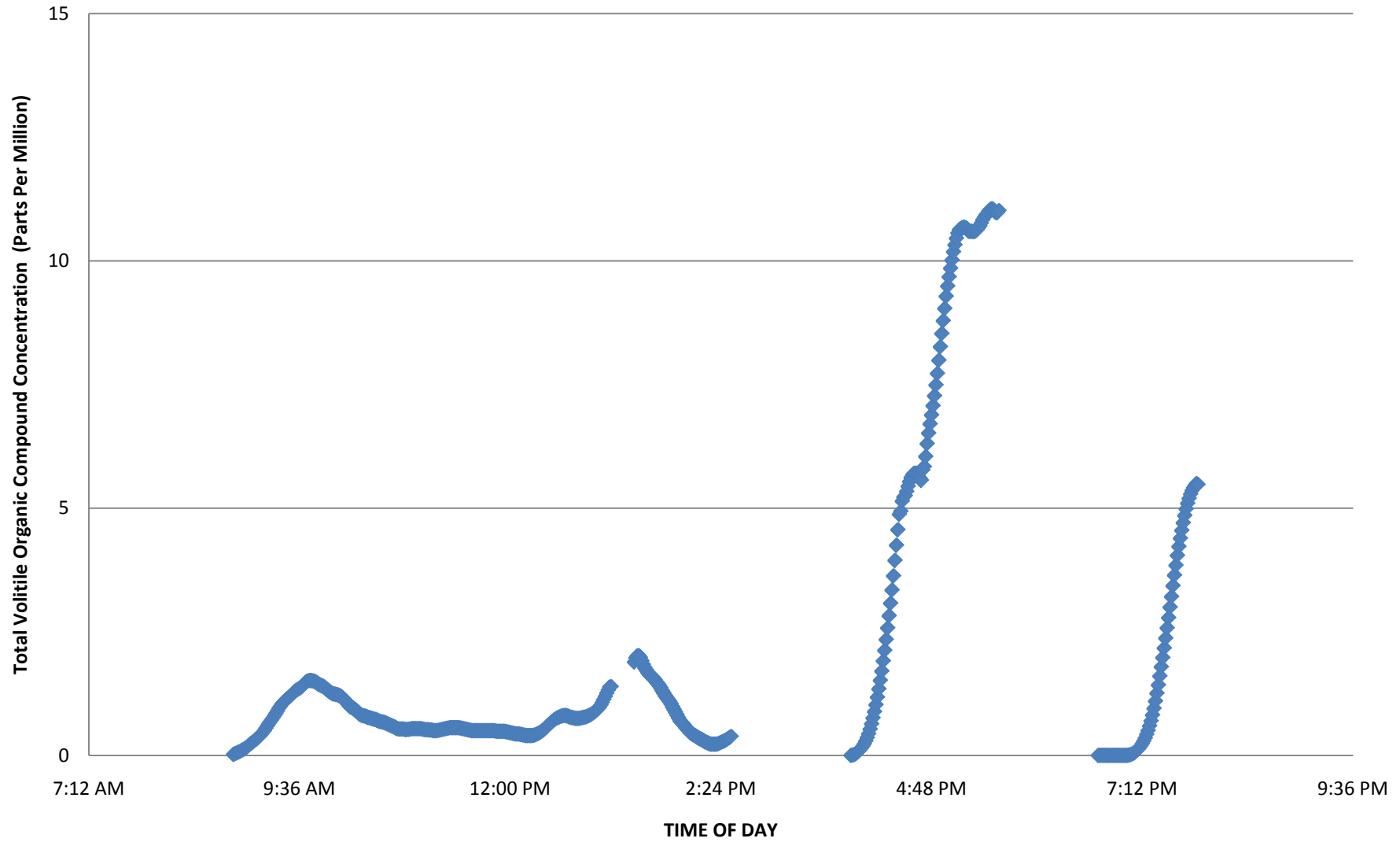
OU2SG-16 33 North Clinton System Cooper Lane Extension - Day 5 - 11/20/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

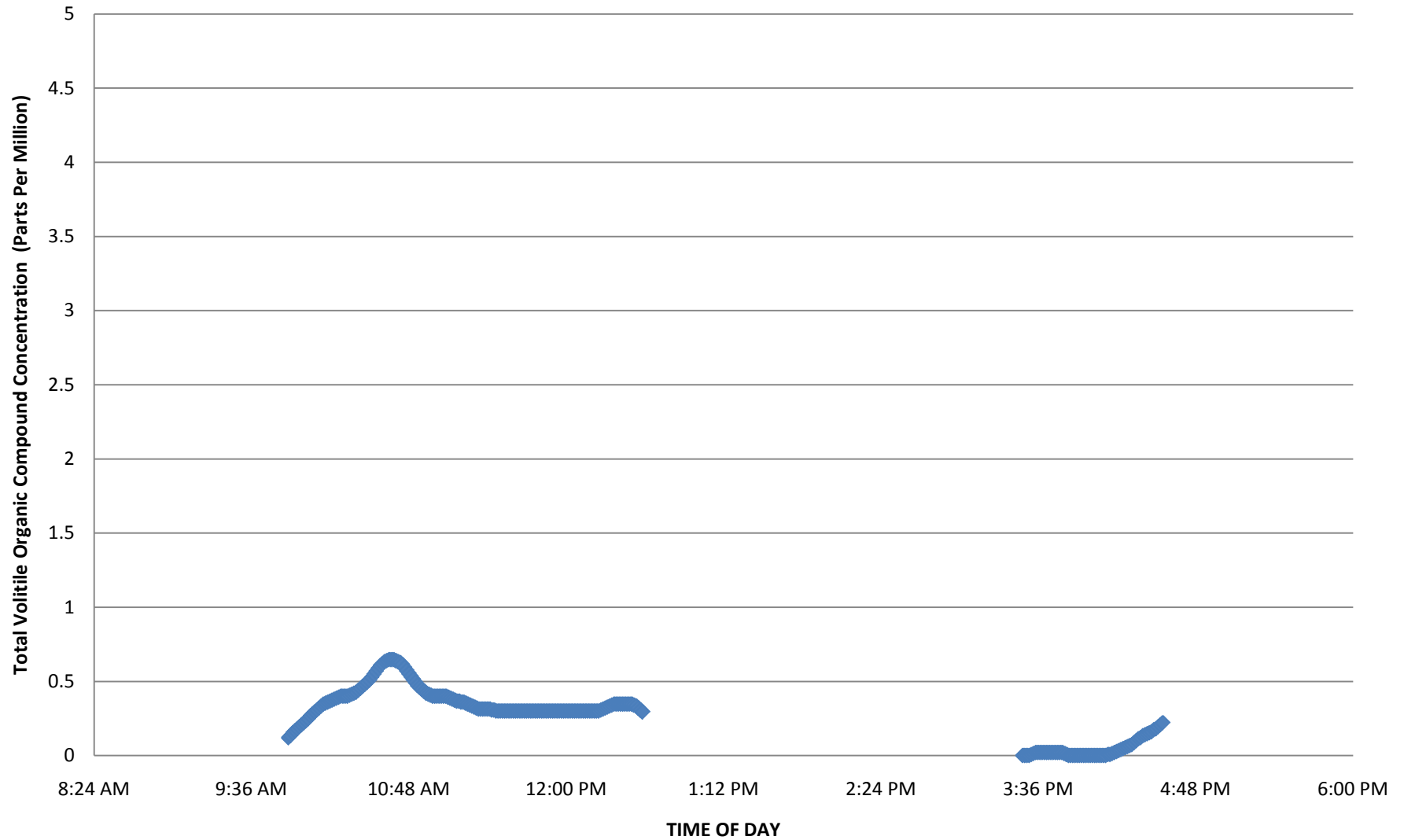
OU2SG-12
34 North Clinton System - Day 1 - 01/20/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

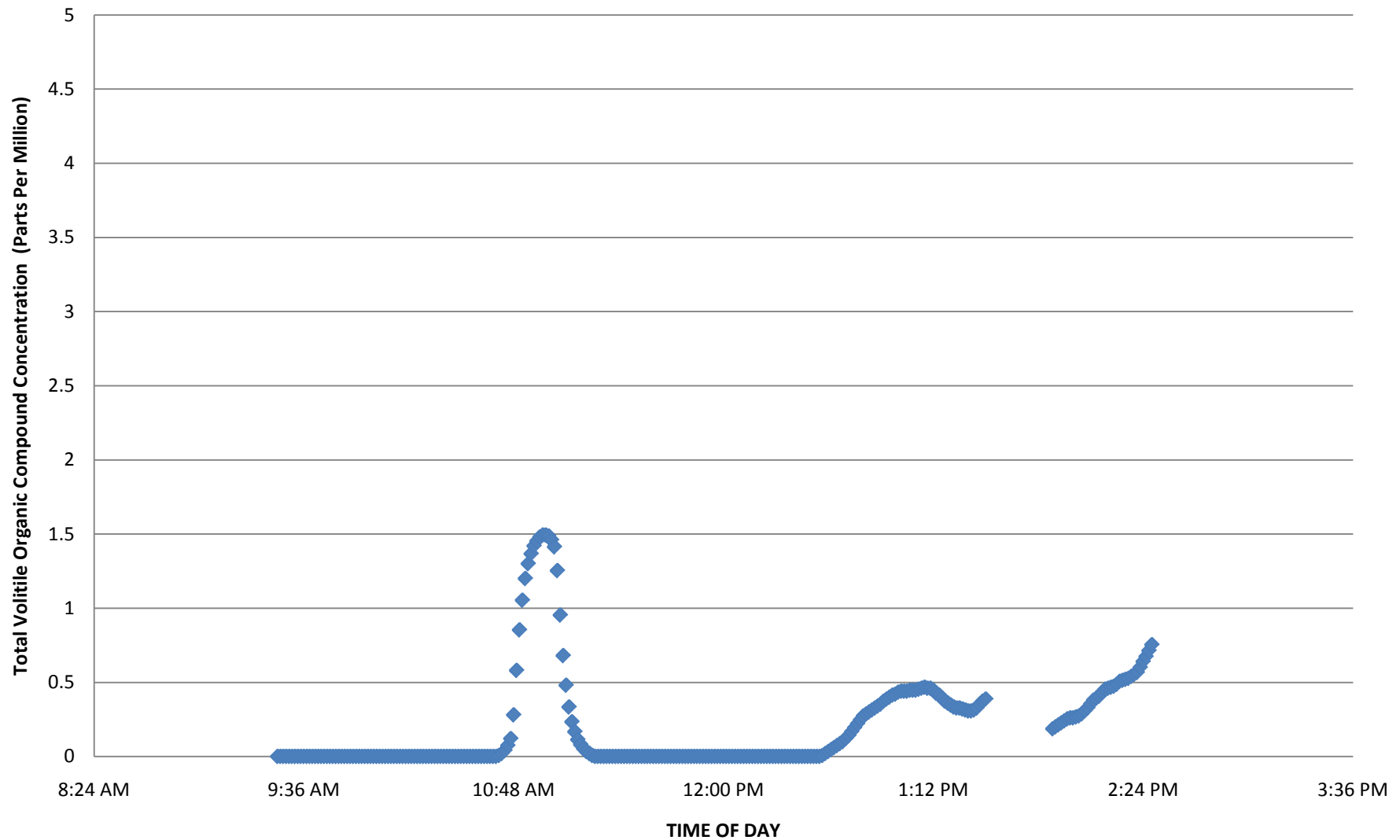
OU2SG-12
34 North Clinton System - Day 2 -01/21/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

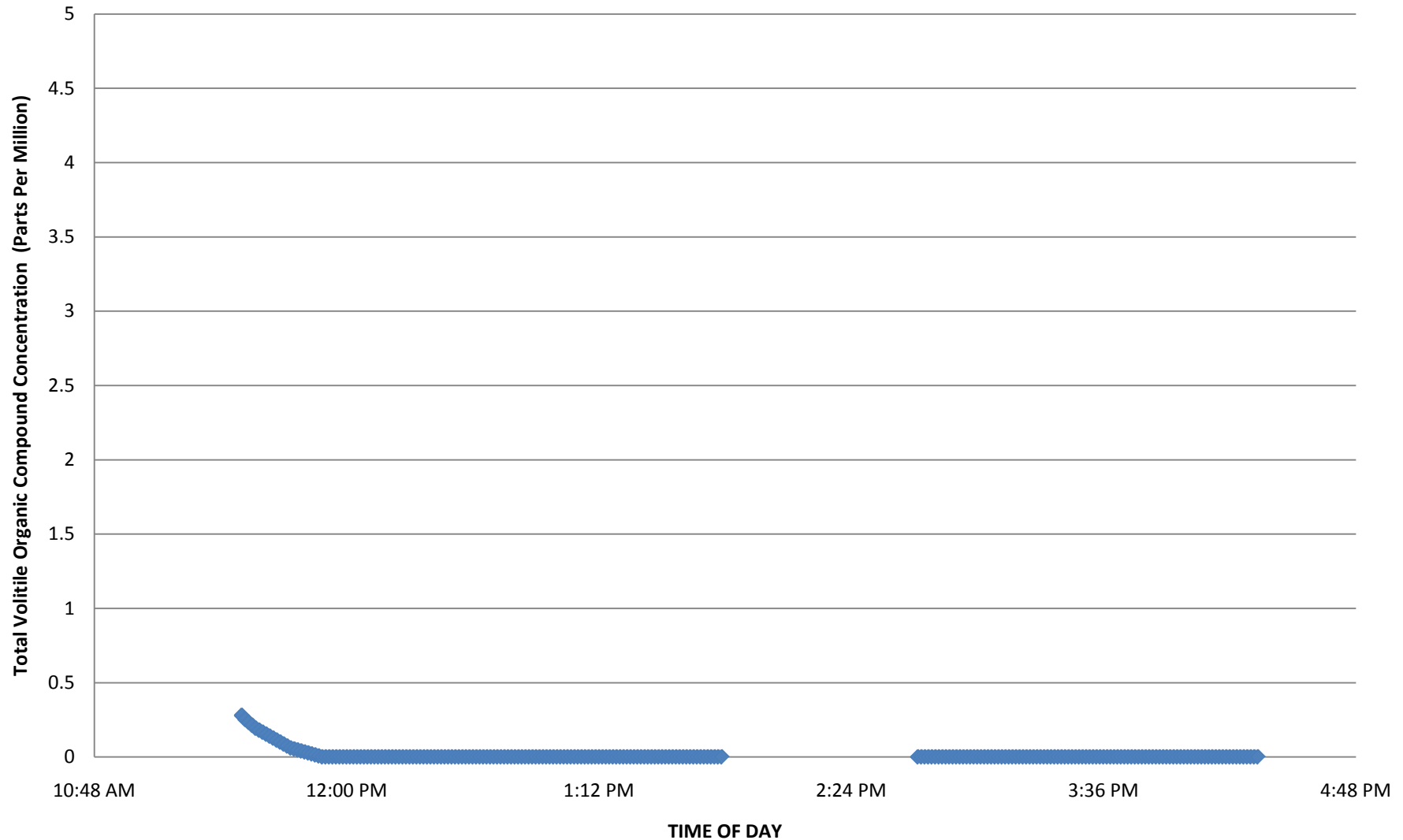
OU2SG-12 34 North Clinton System - Day 3 - 01/22/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

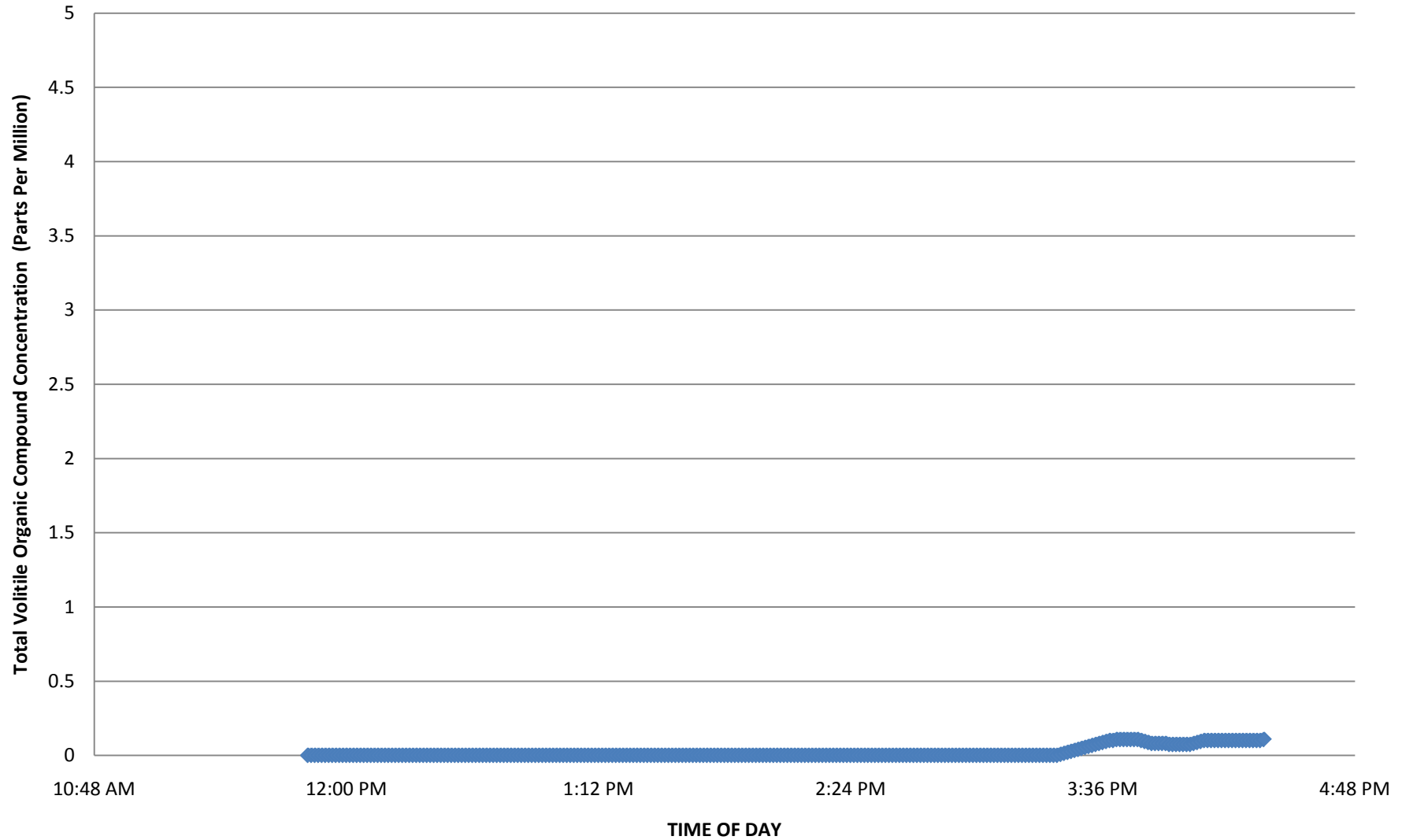
Real Time Soil Vapor Point Monitoring OU2SG-12 34 North Clinton System - Day 4 -01/23/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

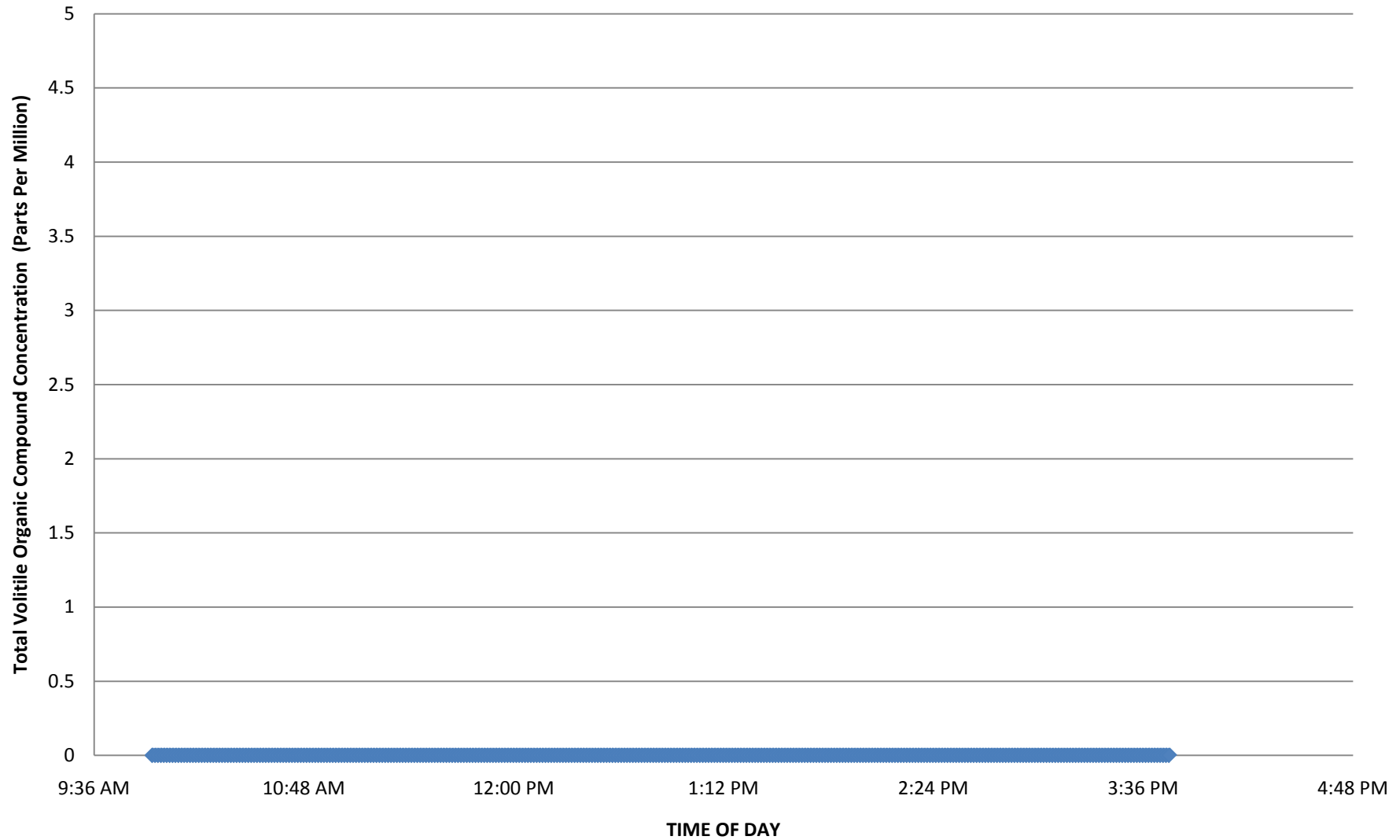
OU2SG-12
34 North Clinton System - Day 4 - 01/26/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

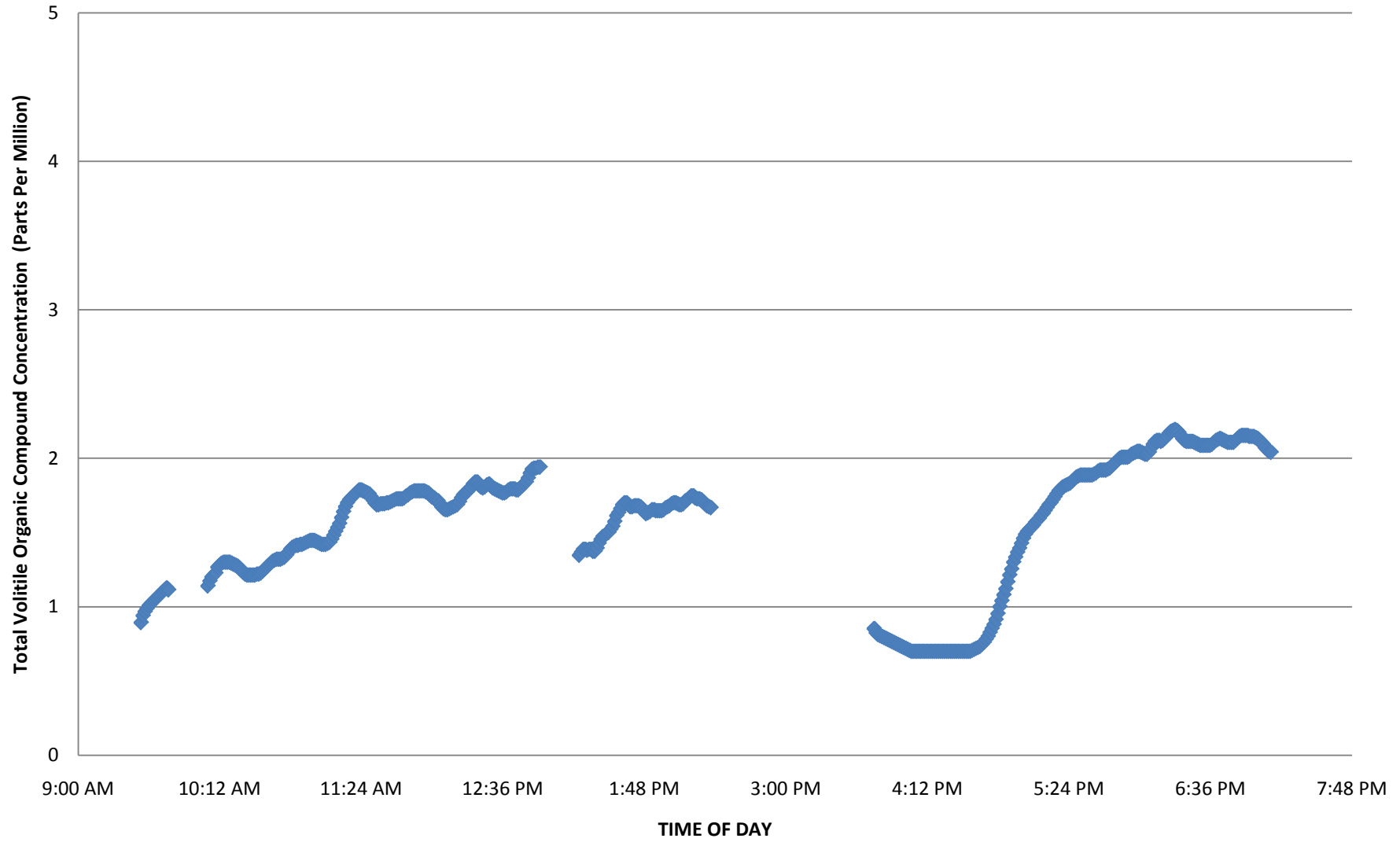
OU2SG-12
34 North Clinton System - Day 5 - 01/27/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

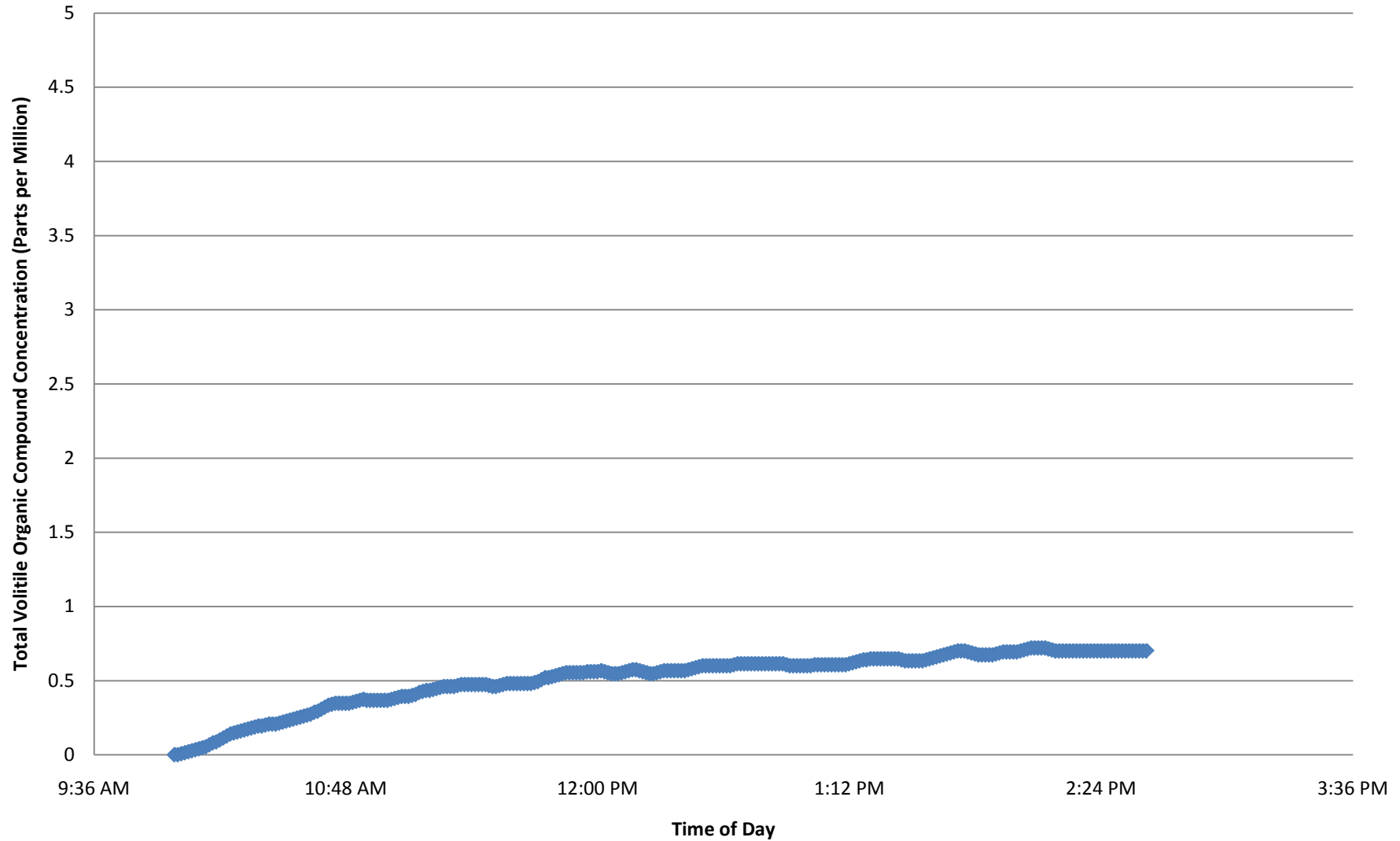
OU2SG-26
9 North Clinton System - Day 1 - 02/16/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

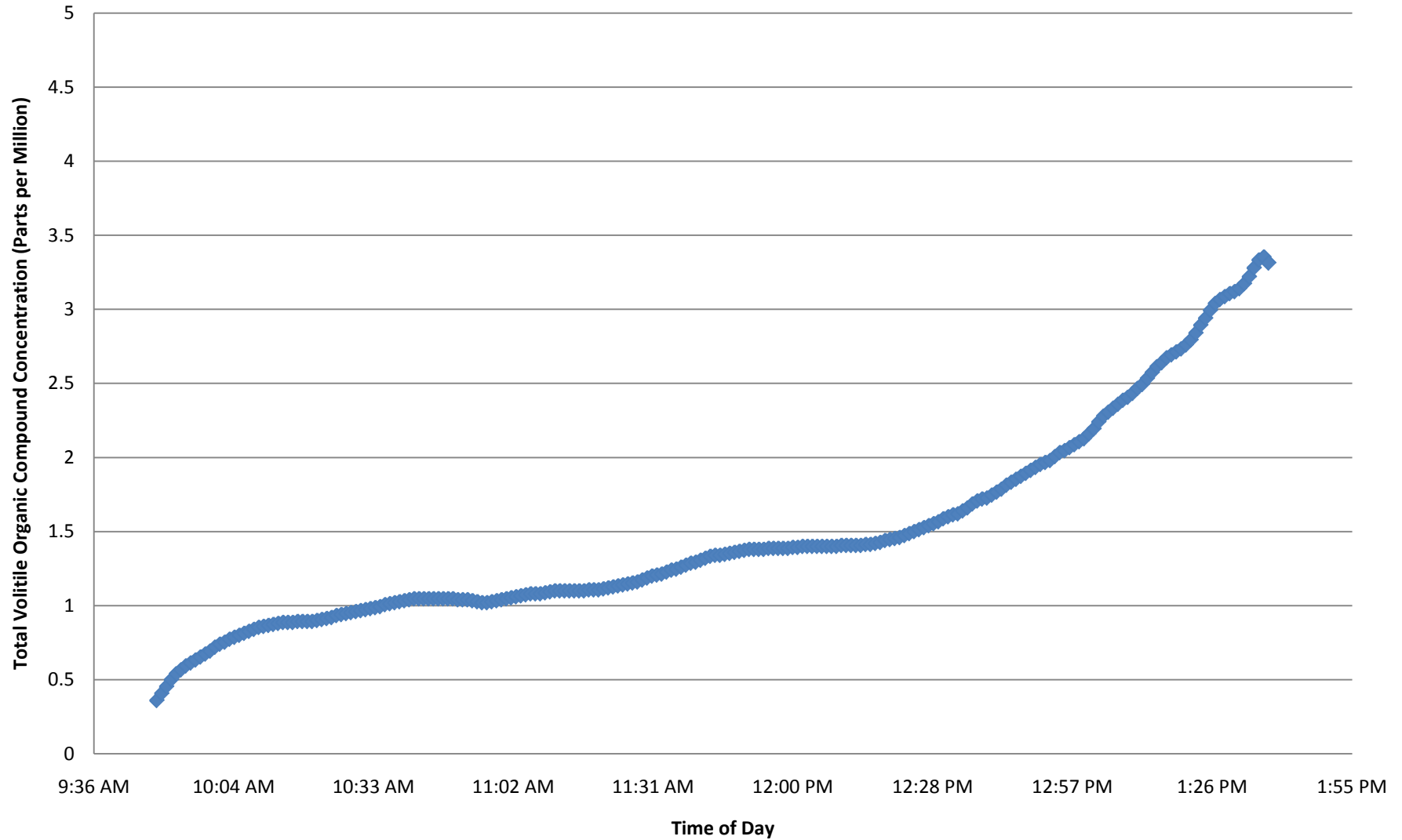
OU2SG-26
9 North Clinton System - Day 2 - 02/17/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

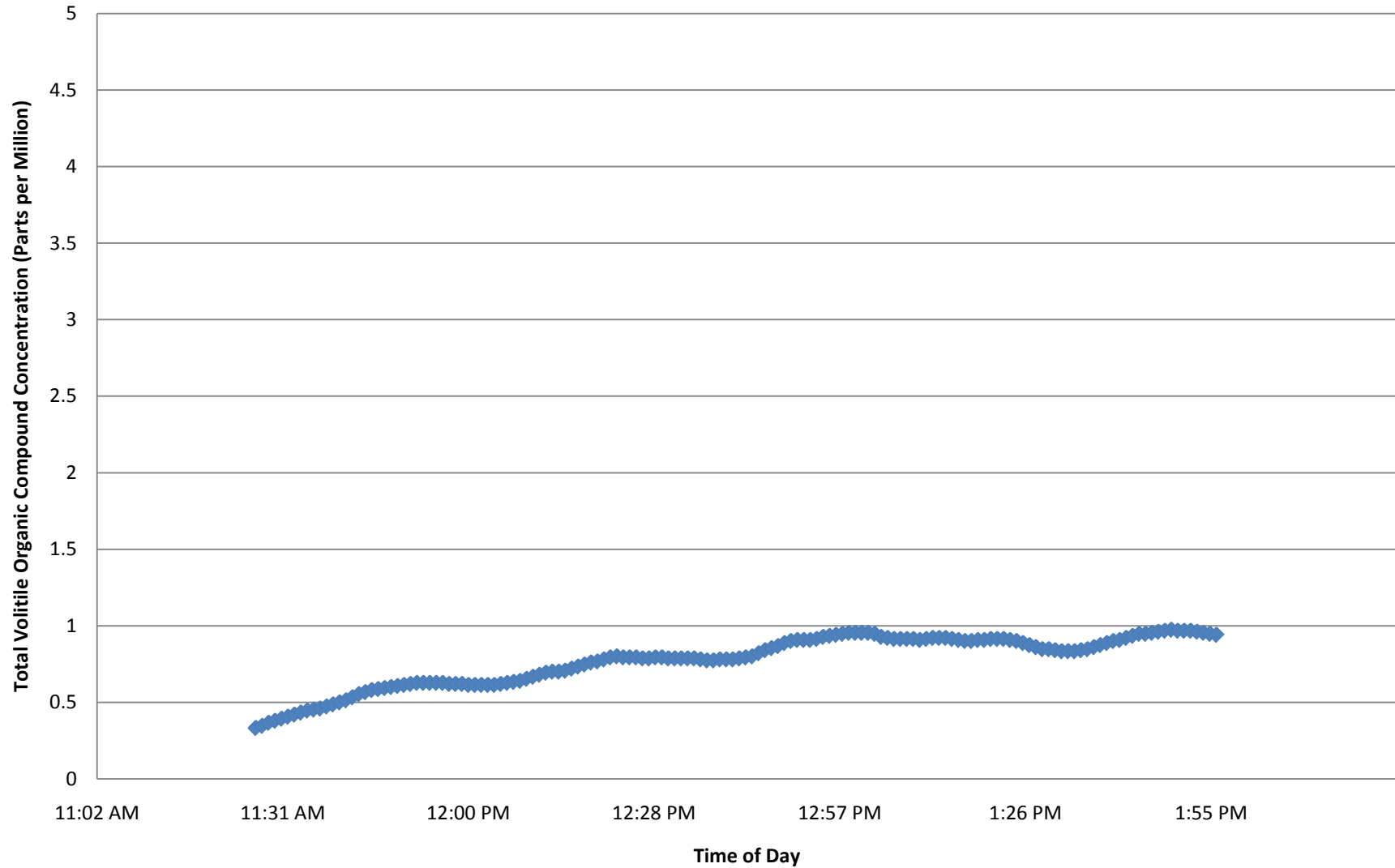
OU2SG-26
9 North Clinton System - Day 3 - 02/18/09



◆ 15 Minute Time Weighted Average

Appendix L
Real Time Soil Vapor Screening
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

OU2SG-26
9 North Clinton System - Day 5 - 02/20/09



◆ 15 Minute Time Weighted Average

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-06	OU2SG-06	OU2SG-06	OU2SG-06	OU2SG-06	Duplicate of:	OU2SG-11	Duplicate of:	OU2SG-11a	OU2SG-11a	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	
Sample Date:	12/29/2008	3/13/2009	6/25/2009	9/22/2009	12/30/2009	OU2SG-06	12/30/2009	OU2SG-11	12/29/2008	OU2SG-11	1/20/2009	OU2SG-11a	1/21/2009	OU2SG-11	1/23/2009	OU2SG-11	1/25/2009
BTEX (ug/m3)																	
Benzene	0.64 U	0.64 U	0.64 U	1.2 U	1.3 U	1.3 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.19 J	0.20 J	0.64 U	0.16 J	0.18 J	
Toluene	0.32 J	0.75 U	0.41 J	1.5 U	1.5 U	1.5 U	1.7	1.1	9.7	13	12	13	13	18	18	23	
Ethylbenzene	0.87 U	0.87 U	0.87 U	1.7 U	1.7 U	1.7 U	0.87 U	0.87 U	0.26 J	0.33 J	0.30 J	0.37 J	0.39 J	0.39 J	0.52 J	0.60 J	
Xylene, m,p-	1.7 U	1.7 U	1.7 U	3.5 U	3.5 U	3.5 U	0.45 J	1.7 U	0.89 J	1.0 J	0.94 J	1.2 J	1.2 J	1.2 J	1.6 J	1.9	
Xylene, o-	0.87 U	0.87 U	0.87 U	1.7 U	1.7 U	1.7 U	0.87 U	0.87 U	0.22 J	0.23 J	0.23 J	0.31 J	0.32 J	0.31 J	0.42 J	0.52 J	
Other VOCs (ug/m3)																	
Acetaldehyde	6.1	2.2 U	7.5	4.8 J	9.0 U	9.0 U	6.0 J	3.3 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	3.0 J	
Acetone	2.5 U	2.4 U	8.0	5.1 UJ	3.6 U	3.6 U	1.7 U	3.0 U	1.8 U	1.3 U	4.1 U	2.8 U	2.5 U	2.4 U	2.3 U	1.4 UJ	
Acrolein (propenal)	0.46 U	0.46 U	1.2 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	
Allyl chloride	0.63 U	0.63 U	0.63 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	
Benzothiophene	1.1 UJ	1.1 U	1.1 U	2.2 U	2.2 U	2.2 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 U	
Bromodichloromethane	1.3 U	1.3 U	1.3 U	2.7 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Bromoform	2.1 U	2.1 U	2.1 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	
Bromomethane	0.78 U	0.78 U	0.78 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	
Butane	0.55	0.48 U	0.48 U	0.71 J	0.95 U	0.95 U	0.63	0.60	0.72	0.48 U	0.48 U	0.26 J	0.38 J	0.48 U	0.70	0.48 U	
Butanone, 2-	0.43 J	0.59 U	0.83	1.2 U	1.2 U	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	
Carbon disulfide	0.16 J	0.62 U	0.19 J	0.56 J	1.2 U	1.2 U	9.7 J	3.3 J	12	4.1	4.5	4.2	5.3	3.1	5.7	1.2	
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Chlorobenzene	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	
Chloroethane	0.53 U	0.53 U	0.53 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	
Chloroform	0.98 U	0.98 U	0.78 J	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.77 J	
Chloromethane	0.31 J	0.26 J	0.23 J	0.83 U	0.83 U	0.83 U	0.18 J	0.22 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.19 J	0.41 U	0.41 U	
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cryofluorane	1.4 U	1.4 U	1.4 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Cyclohexane	0.28 J	0.69 U	0.69 U	1.4 U	1.4 U	1.4 U	24 J	6.8 J	21	16	10	8.1	6.2	5.5	5.8	4.1	
Decane, n-	1.2 U	1.2 U	0.35 J	2.3 U	2.3 U	2.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dibromochloromethane	1.7 U	1.7 U	1.7 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorodifluoromethane	2.7	2.0	2.4	2.8	2.0	2.1	2.5	1.6	3.0	3.0	3.0	2.7	3.0	2.9	3.1	2.5	
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	
Dodecane, n-	1.4 UJ	1.4 UJ	1.1 J	2.8 UJ	2.8 UJ	2.8 UJ	1.4 UJ	0.90 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Ethanol	2.0	1.9 U	1.6 J	3.8 U	3.8 U	3.8 U	0.97 J	2.6	1.8 U	0.71 J	0.81 J	1.3 J	2.2	1.1 J	0.87 J	1.2 J	
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-06 12/29/2008	OU2SG-06 3/13/2009	OU2SG-06 6/25/2009	OU2SG-06 9/22/2009	OU2SG-06 12/30/2009	Duplicate of: OU2SG-06 12/30/2009	OU2SG-11 12/29/2008	Duplicate of: OU2SG-11 12/29/2008	OU2SG-11a 1/20/2009	OU2SG-11a 1/21/2009	OU2SG-11 1/22/2009	OU2SG-11 1/23/2009	OU2SG-11 1/25/2009	OU2SG-11 1/26/2009	OU2SG-11 1/30/2009	OU2SG-11 2/5/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.23 J	0.82 U	0.52 J	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.27 J	0.70 U	0.70 U	1.4 U	1.4 U	1.4 U	0.29 J	0.70 U	0.51 J	0.42 J	0.38 J	0.35 J	0.40 J	0.37 J	0.79	0.49 J
Hexanone, 2-	0.82 U	0.82 U	0.82 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	1.9 U	1.9 U	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	1.9 U	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	1.7 U	0.66 J	3.5 U	3.5 U	3.5 U	1.7 U	1.7 U	0.69 U	0.69 U	0.84 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Methylnaphthalene, 1-	R	1.2 U	1.2 U	2.3 UJ	2.3 U	2.3 U	R	5.8 UJ	5.8 UJ	5.8 U	5.8 U	5.8 U	5.8 UJ	5.8 UJ	5.8 U	1.2 U
Methylnaphthalene, 2-	0.45 J	1.2 U	1.2 U	2.3 U	2.3 U	2.3 U	1.4 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 UJ	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	2.0 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	0.39 J	1.0 U	0.63 J	2.1 U	2.1 U	2.1 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	1.0 U	1.0 U	1.0 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	0.89 J	0.85 J	1.0 J	1.7	2.1
Octane, n-	0.93 U	0.93 U	0.93 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.32 J	0.55 J	0.66 J	0.84 J	1.1	1.1	1.8	2.5
Pentane	1.8	0.59 U	0.59 U	1.2 U	1.2 U	1.1 J	0.59 U	1.1	0.59 U	0.59 U	0.59 U	0.59 U	0.47 J	0.59 U	0.57 J	0.59 U
Propanol, 2-	0.77 UJ	1.2 U	1.2 U	2.3 J	2.5 U	2.5 U	0.49 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	9.2 J	1.2 U	1.2 U	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.32 J	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	1.5 U	0.21 J	1.2 U	1.2 U	1.2 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	1.4 U	2.3	1.5 J	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.58 J	0.40 J	0.69 J	3.1 U	3.1 U	3.1 U	0.45 J	1.5 U	0.55 J	0.42 J	0.49 J	0.45 J	0.47 J	1.5 U	0.51 J	1.5 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	3.0 U	3.0 U	3.0 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.6	1.2	2.2	1.9 J	1.1 J	1.1 J	1.2	0.56 J	1.2	1.0 J	1.3	1.2	1.2	1.2	1.2	1.2
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.3 U	1.3 U	1.3 U	2.6 U	2.6 U	2.6 U	1.3 UJ	2.7 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.0157	0.0181 U	0.0158	0.00349 U	0.0174 U	0.0173 U	0.0193	1.39	0.017	0.016	0.0177	0.0179	0.0172	0.0186	0.0178	0.0168

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-11 2/13/2009	OU2SG-11 2/16/2009	OU2SG-11 2/17/2009	OU2SG-11 2/18/2009	OU2SG-11 2/19/2009	OU2SG-11 2/20/2009	OU2SG-11 2/21/2009	OU2SG-11 2/23/2009	OU2SG-11 2/27/2009	OU2SG-11 3/5/2009	OU2SG-11 3/13/2009	OU2SG-11 3/25/2009	OU2SG-11 3/31/2009	OU2SG-11 4/1/2009	OU2SG-11 4/2/2009	OU2SG-11 4/3/2009
BTEX (ug/m3)																
Benzene	0.16 J	0.16 J	0.64 U	0.17 J	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.26 J	0.20 J	0.18 J	0.18 J	0.64 U	0.64 U	0.16 J
Toluene	48 J	28 J	18	18	20	14	13	17	27	30	28	66	56	29	30	31
Ethylbenzene	1.5	0.96	0.75 J	0.75 J	0.95 J	0.68 J	0.52 J	0.59 J	0.80 J	1.2	1.4 J	3.1 J	2.8 J	1.2 J	1.3	1.4
Xylene, m,p-	5.0	2.7	2.4	2.5	3.1	2.3	1.7	1.9	2.6	3.7	4.6	8.9	7.9	3.8	4.0	4.6
Xylene, o-	1.6	0.86 J	0.66 J	0.72 J	0.88	0.53 J	0.48 J	0.49 J	0.66 J	1.0	1.3	2.5	2.3	1.1	1.3	1.4
Other VOCs (ug/m3)																
Acetaldehyde	4.5 UJ	4.5 U	2.9 U	2.0 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	2.3 U	1.8 UJ	2.0 U	3.6 U	1.8 UJ	5.6 U	3.6 UJ
Acetone	1.2 UJ	2.5 U	1.6 U	1.5 U	2.7 U	1.2 UJ	1.8 U	1.4 U	1.2 U	8.6 U	1.2 U	1.1 J	1.8 U	1.8 UJ	2.5 U	2.1 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.25 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	0.59 J	1.1 U	2.7 UJ	2.7 UJ	2.7 UJ	2.7 U	2.7 U	2.7 U	2.7 U	1.1 U	2.7 UJ	2.7 U	2.7 U	2.7 U	14 UJ	14 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 UJ	0.44 UJ	0.44 U	0.44 U
Butane	0.60	0.46 J	0.48 U	0.48 U	0.50	0.53	0.48 UJ	0.48 J	0.48 U	0.25 J	0.27 J	0.48 U	0.85	0.48 U	0.24 J	0.31 J
Butanone, 2-	0.59 U	1.3	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	6.1	0.59 U	0.59 U	0.59 U	0.59 U	0.60	0.39 J
Carbon disulfide	3.9 J	3.8 J	0.62 U	1.5	1.7	1.7	1.7	2.0	2.4	4.2	0.62 U	5.3	7.6	4.4	4.7	5.3
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	1.7	0.91 J	0.45 J	0.34 J	0.60 J	0.66 J	1.6	0.54 J	0.26 J	0.98 U	0.98 U	0.98 U	0.33 J	0.29 J	0.34 J	0.48 J
Chloromethane	0.41 U	0.41 U	0.41 U	0.17 J	0.41 U	0.20 J	0.41 U	0.11 J	0.41 U	0.20 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.11 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	6.4	6.7	0.86	1.6	1.7	1.7	1.9	2.8	3.6	6.5	1.2	8.1	9.5	7.1	3.8	3.9
Decane, n-	0.90 J	1.0 J	0.34 J	0.35 J	0.44 J	0.33 J	0.41 J	1.2 U	1.2 U	0.97 J	0.30 J	0.46 J	0.48 J	1.2 U	0.38 J	0.35 J
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	0.38 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	2.6	2.2	2.4	2.3	2.4	2.8	2.5	2.6	2.6	2.4	2.6	2.5	2.7	2.5	2.6	3.0
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U	0.81 UJ	0.81 UJ	0.81 UJ	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	2.8 J	28 J	0.39 J	0.39 J	0.49 J	0.55 J	0.90 J	3.5 U	3.5 U	0.43 J	3.5 U	0.36 J	0.58 J	3.5 U	0.38 J	0.47 J
Ethanol	1.9 U	1.9 U	0.68 J	0.86 J	1.2 J	0.90 J	1.8 J	0.91 J	0.97 J	8.2	1.2 J	0.63 J	0.72 J	4.7 U	0.84 J	0.97 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-11 2/13/2009	OU2SG-11 2/16/2009	OU2SG-11 2/17/2009	OU2SG-11 2/18/2009	OU2SG-11 2/19/2009	OU2SG-11 2/20/2009	OU2SG-11 2/21/2009	OU2SG-11 2/23/2009	OU2SG-11 2/27/2009	OU2SG-11 3/5/2009	OU2SG-11 3/13/2009	OU2SG-11 3/25/2009	OU2SG-11 3/31/2009	OU2SG-11 4/1/2009	OU2SG-11 4/2/2009	OU2SG-11 4/3/2009
Ethyltoluene, p-	0.29 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.25 J	0.98 U	0.27 J	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.73 J	0.73 J	0.23 J	0.26 J	0.24 J	0.82 U	0.25 J	0.27 J	0.28 J	0.50 J	0.82 U	0.95	1.2	1.9	0.89	1.8
Hexachlorobutadiene	1.5 J	2.1 U	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.80 J	0.99 J	0.70 U	0.70 U	0.70 U	0.31 J	0.35 J	0.52 J	0.52 J	1.5	0.70 U	1.2	1.8	0.92	0.79	0.78
Hexanone, 2-	0.82 U	0.82 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	0.69 U	0.69 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.69 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	1.7 U
Methylnaphthalene, 1-	1.0 J	0.44 J	2.9 UJ	R	R	2.9 UJ	2.9 U	2.9 U	2.9 UJ	1.2 UJ	2.9 UJ	2.9 U	2.9 UJ	2.9 UJ	5.8 U	5.8 U
Methylnaphthalene, 2-	1.1 J	1.0 J	2.9 UJ	2.9 UJ	2.9 UJ	2.9 U	2.9 U	2.9 U	2.9 UJ	1.2 UJ	2.9 UJ	0.73 J	2.9 UJ	2.9 UJ	5.8 U	5.8 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	0.60 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	1.0 U	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U
Nonane	5.1	4.2	2.8	3.3	4.0	2.4	2.1	2.0	2.0	1.9	2.2	2.6	2.2	1.0 U	1.2	1.4
Octane, n-	5.1	2.4	2.7	2.6	2.8	2.1	1.6	1.9	2.3	1.4	1.6	1.5	1.5	0.64 J	0.96	1.1
Pentane	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.86	0.59 U	0.58 J	0.59 U	0.24 J	0.23 J
Propanol, 2-	0.47 U	0.69 U	1.2 U	1.2 U	1.2 U	1.2 U	0.81 J	1.2 UJ	1.2 U	1.5 U	1.2 U	1.2 J	1.2 U	1.2 U	1.0	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.50 J	0.22 J	0.85 U	0.85 U	0.24 J	0.85 U	0.85 U	0.85 U	0.85 U	0.23 J	0.31 J	0.59 J	0.86	0.42 J	0.58 J	0.56 J
t-Butyl alcohol	1.5 U	1.5 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.31 J	0.61 U	0.61 U	0.61 U	0.61 U	0.16 J	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.77 J	0.67 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 UJ	2.7 UJ	2.7 UJ	0.67 J	2.7 U	1.6 J	2.1 J	2.7 U	1.7 J	2.1 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.47 J	0.61 J	0.48 J	0.49 J	0.56 J	0.55 J	0.46 J	0.44 J	0.47 J	0.62 J	0.47 J	0.43 J	0.58 J	0.43 J	0.57 J	0.69 J
Trichlorobenzene, 1,2,4-	0.92 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.1 J	1.3	0.96 J	0.98 J	1.1 J	1.1 J	1.0 J	1.0 J	1.1 J	1.1 J	1.1 J	1.0 J	1.2	1.1	1.2	1.6
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.31 J	0.98 U	0.37 J	0.29 J	0.98 U	0.98 U	0.26 J
Trimethylbenzene, 1,2,4-	0.49 J	0.28 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.79 J	0.25 J	0.72 J	0.47 J	0.98 U	0.37 J	0.42 J
Trimethylbenzene, 1,3,5-	0.28 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.4	22	1.3 U	1.3 U	1.3 U	0.35 J	1.2 J	1.3 U	0.54 J	1.3	0.44 J	1.3 UJ	1.3 UJ	1.3 U	1.3 U	0.47 J
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.88	5.8	6.36
Helium	0.0173	0.0182	0.0172	0.0211	0.0182 U	0.0216	0.0246	0.0176	0.0202	0.0222	0.0099	0.0159 U	0.0221	0.0198	0.148	0.0174

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-11 4/4/2009	OU2SG-11 4/5/2009	OU2SG-11 4/6/2009	OU2SG-11 4/10/2009	OU2SG-11 4/13/2009	OU2SG-11 4/14/2009	OU2SG-11 4/17/2009	OU2SG-11 4/24/2009	OU2SG-11 5/11/2009	OU2SG-11 5/13/2009	OU2SG-11 5/22/2009	OU2SG-11 6/16/2009	OU2SG-11 6/25/2009	OU2SG-11 7/13/2009	OU2SG-11 7/23/2009	OU2SG-11 7/30/2009
BTEX (ug/m3)																
Benzene	0.64 U	0.64 U	0.64 U	0.64 UJ	0.64 U	0.64 U	0.16 J	0.21 J	0.64 U	0.64 U	0.64 U	0.33 J	0.64 U	0.64 U	0.64 U	0.64 U
Toluene	24	25	19	32	36	23	34	55	60	56	0.75 U	5.4	3.2	5.6	5.9	13
Ethylbenzene	1.0	1.0	0.78 J	1.2	1.1	0.54 J	1.4	2.2	3.3	3.2	0.87 U	0.66 J	0.37 J	0.74 J	0.61 J	1.0
Xylene, m,p-	3.2	3.5	2.7	4.0	3.6	1.0 J	4.8	7.0	8.6	8.2	1.7 U	1.4 J	0.87 J	1.6 J	2.0	2.9
Xylene, o-	1.0	1.1	0.80 J	1.1	0.95	0.22 J	1.2	2.0	2.8	2.6	0.87 U	0.64 J	0.31 J	0.55 J	0.74 J	0.91
Other VOCs (ug/m3)																
Acetaldehyde	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	4.5 U	4.5 UJ	4.5 UJ	4.5 UJ	4.5 U	4.5 UJ	4.5 UJ	4.5 UJ	13	12
Acetone	6.0 U	4.1 J	1.8 UJ	1.9 U	1.8 U	1.8 U	2.6	4.3	2.9 U	4.0 U	1.8 U	2.9 U	1.8 UJ	3.7 J	5.8 U	5.1 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 U	1.2 U	1.2 UJ	0.34 J	1.2 UJ	1.2 U	1.2 U	1.2 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	14 UJ	14 UJ	14 UJ	14 U	14 UJ	14 UJ	14 U	14 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.48	0.86	2.3	0.29 J	0.31 J	0.48 U	0.26 J	0.48 U	0.74	0.33 J	0.48 U	0.84	57	1.0	2.8	0.55
Butanone, 2-	0.29 J	0.59 U	0.29 J	0.59 U	0.59 U	0.59 U	0.40 J	0.59 U	0.29 J	0.59 U	0.59 U	0.87	0.46 J	0.76	1.1	0.88
Carbon disulfide	4.8	5.1	3.5	6.1	8.2	5.5	7.2	14	21	26	0.62 U	56	63	56 J	48	53
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.50 J	0.50 J	1.3 U	0.35 J	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	0.55 J	0.54 J	1.5	0.93 J	0.44 J	0.44 J	0.38 J	0.95 J	6.3	4.2	0.98 U	3.1	21	3.0	1.9	1.8
Chloromethane	0.41 U	0.14 J	0.41 U	0.41 U	0.41 U	0.13 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.14 J	0.11 J	0.41 U	0.17 J	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	3.5	3.8	2.8	4.1	5.2	3.7	6.4	11	20	20	0.69 U	27	25	32	26	30
Decane, n-	1.2 U	0.47 J	0.46 J	1.2 U	0.47 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48 J	0.48 J	1.2 U	0.82 J	0.67 J	0.97 J	0.84 J	0.96 J
Dichlorodifluoromethane	2.9	2.6	2.6	2.6	2.7	2.7	2.5	2.4	0.84 J	1.0	0.99 U	1.2	0.98 J	2.2	1.5	1.3
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 UJ	0.72 UJ	0.72 UJ	0.72 UJ	0.72 UJ
Dodecane, n-	1.4 J	1.2 J	1.2 J	0.84 J	1.2 J	1.4 U	0.63 J	0.70 J	0.49 J	0.84 J	1.4 U	1.4 U	1.5	3.5	1.4 U	1.4 U
Ethanol	0.56 J	1.4 J	0.53 J	47	1.9 U	0.74 J	0.85 J	0.78 J	1.9 U	1.9 U	1.9 U	5.3	1.3 U	1.1 J	1.1 J	0.58 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-11 4/4/2009	OU2SG-11 4/5/2009	OU2SG-11 4/6/2009	OU2SG-11 4/10/2009	OU2SG-11 4/13/2009	OU2SG-11 4/14/2009	OU2SG-11 4/17/2009	OU2SG-11 4/24/2009	OU2SG-11 5/11/2009	OU2SG-11 5/13/2009	OU2SG-11 5/22/2009	OU2SG-11 6/16/2009	OU2SG-11 6/25/2009	OU2SG-11 7/13/2009	OU2SG-11 7/23/2009	OU2SG-11 7/30/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.25 J	0.29 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.58 J	1.3	0.21 J	0.82	0.49 J	0.33 J	0.44 J	0.82 U	0.82 U	0.82 U	0.82 U	0.46 J	0.36 J	0.82 U	1.6	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.61 J	1.0	0.58 J	0.77	1.1	0.64 J	1.2	2.0	1.8	2.0	0.70 U	1.1	2.2	0.58 J	1.7	1.0
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.4 U	0.90 J	0.56 J	0.55 J	0.44 J	1.7 U	1.7 U	1.7 U	0.87 J
Methylnaphthalene, 1-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Methylnaphthalene, 2-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 U	0.41 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 J	0.52 J	1.0 U	0.35 J	1.0 U	1.0 U	0.42 J	0.26 J
Nonane	1.2	1.7	1.2	1.7	1.4	1.0 U	1.5	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Octane, n-	1.0	1.8	1.4	2.4	2.1	0.75 J	1.4	0.74 J	0.93 U	0.33 J	0.93 U	2.2	0.93 U	0.93 U	1.7	0.93 U
Pentane	0.20 J	0.65	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.27 J	0.59 U	0.59 U	0.76	13	0.59 U	2.2	0.53 J
Propanol, 2-	0.49 U	0.49 U	0.52	2.6	0.52	0.49 U	0.61	0.49 U	1.2 U	1.4 U	1.2 U	1.2 U	1.5 U	1.2 U	1.2 U	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.35 J	0.38 J	0.35 J	0.38 J	0.30 J	0.85 U	0.40 J	0.55 J	0.60 J	0.64 J	0.85 U	0.25 J	0.85 U	0.85 U	0.85 U	0.34 J
t-Butyl alcohol	0.61 U	0.15 J	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.41 J	0.75 J	1.4 U	0.70 J	0.68 J	0.81 J	0.75 J	0.95 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.5 J	2.1 J	1.6 J	1.4 J	0.77 J	5.5 U	1.5 J	2.2 J	1.2 J	1.0 J	1.1 U	0.56 J	0.41 J	0.48 J	0.93 J	0.88 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.61 J	0.61 J	0.59 J	0.54 J	0.54 J	0.47 J	0.51 J	0.49 J	0.38 J	0.46 J	1.5 U	0.42 J	0.53 J	0.41 J	0.46 J	0.46 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.2	1.2	1.2	1.1 J	1.2	1.1	1.0 J	1.2	0.79 J	0.84 J	1.1 U	1.0 J	1.2	1.2	1.1 J	1.1 J
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.29 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.28 J	0.34 J	0.26 J	0.25 J	0.98 U	0.98 U	0.28 J	0.40 J	0.44 J	0.54 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.0 J	1.2 J	1.2 J	1.3 U	1.5	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	6.07	6.52	7.6	7.87	6.68	2.39	5.34	7	10.4	8	9.44	10.1	11.9	10.3	9.11	12.4
Helium	0.0158	0.017	0.0164	NA	0.0178	0.02	0.0191	0.0199	0.0192 U	0.016 U	0.017 U	0.0191	0.0162	0.0235 U	0.05	0.166

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	OU2SG-11	Duplicate of	OU2SG-12a	Duplicate of	OU2SG-12p	OU2SG-12a	OU2SG-12p	OU2SG-12	
Sample Date:	8/10/2009	8/18/2009	8/26/2009	9/22/2009	10/14/2009	10/19/2009	10/30/2009	11/11/2009	11/17/2009	11/18/2009	12/28/2009	12/30/2008	OU2SG-12	1/20/2009	1/20/2009	1/20/2009	1/21/2009	1/21/2009	1/21/2009	
BTEX (ug/m3)																				
Benzene	0.64 U	0.64 U	3.2 U	1.6 U	1.6 U	1.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.64 U	0.64 U	0.24 J	0.24 J	0.64 U	0.54 J	0.38 J	0.16 J	
Toluene	5.7	10 J	5.1	3.8	1.7 J	0.85 J	2.1	1.4 J	4.1	2.6	1.3 J	0.61 J	0.46 J	0.78	0.70 J	0.39 J	0.94	0.72 J	0.54 J	
Ethylbenzene	0.56 J	1.3 J	4.3 U	2.2 U	2.2 U	2.2 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.27 J	0.30 J	0.87 U	
Xylene, m,p-	1.6 J	3.6 J	8.7 U	1.1 J	4.3 U	4.3 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	0.52 J	0.40 J	0.43 J	0.39 J	0.36 J	0.85 J	0.74 J	0.70 J	
Xylene, o-	0.48 J	1.2 J	4.3 U	2.2 U	2.2 U	2.2 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.30 J	0.30 J	0.87 U	
Other VOCs (ug/m3)																				
Acetaldehyde	5.4 U	9.3 J	22 U	5.6 U	15	4.5 U	9.0 U	9.0 U	2.9 J	9.0 U	9.0 UJ	9.4	5.2 J	1.8 UJ	1.8 UJ	1.8 UJ	9.3 U	2.8 U	1.8 UJ	
Acetone	4.9 U	4.2 J	13 U	3.9 U	4.9 U	4.5 U	3.6 U	1.2 J	1.4 J	1.4 J	3.6 UJ	2.5 U	2.8 U	2.8 U	1.8 U	2 U	17	3.4 U	2.6 U	
Acrolein (propenal)	1.2 U	1.2 U	5.7 U	2.9 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	
Allyl chloride	0.63 U	0.63 U	3.1 U	1.6 U	1.6 U	1.6 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	
Benzoanthracene	1.1 UJ	1.1 UJ	5.5 UJ	2.7 U	2.7 U	2.7 U	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	
Bromodichloromethane	1.3 U	1.3 U	6.7 U	3.4 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Bromofom	2.1 U	2.1 U	10 U	5.2 U	5.2 U	5.2 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	
Bromomethane	0.78 U	0.78 U	3.9 U	1.9 U	1.9 U	1.9 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	
Butadiene, 1,3-	0.44 U	0.44 U	2.2 U	1.1 U	1.1 U	1.1 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	
Butane	0.62	0.57 J	2.4 U	0.59 J	1.2 U	1.2 U	0.38 J	0.95 U	0.95 U	0.95 U	3.8	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	1.1	0.74	0.48 U	
Butanone, 2-	0.59 U	0.47 J	3.0 U	1.5 U	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59 U	0.59 U	0.51 J	0.37 J	0.59 U	2.5	0.65	0.59 U	
Carbon disulfide	8.9	11 J	4.7 U	3.0 U	1.0 J	0.54 J	1.2 U	0.87 J	0.68 J	0.62 J	1.4 J	0.34 J	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	
Carbon tetrachloride	1.3 U	1.3 U	6.3 U	3.1 U	3.1 U	3.1 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
Chlorobenzene	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	
Chloroethane	0.53 U	0.53 U	2.6 U	1.3 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	
Chloroform	1.2	1.7 J	2.2 J	1.2 J	2.4 U	2.4 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	14	14	12	14	13	7.7	11	12	
Chloromethane	0.10 J	0.41 U	2.1 U	1.0 U	1.0 U	1.0 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.43	0.41 U	0.41 U	
Chlorotoluene, 2-	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cryofluorane	1.4 U	1.4 U	7.0 U	3.5 U	3.5 U	3.5 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Cyclohexane	34	39 J	20	40	20	11	19	10	3.1	2.1	8.5 J	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	
Decane, n-	1.2 U	1.2 U	5.8 U	2.9 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	1.9	1.4	0.78 J	0.85 J	0.77 J	0.35 J	0.76 J	0.70 J	
Dibromochloromethane	1.7 U	1.7 U	8.5 U	4.3 U	4.3 U	4.3 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	
Dibromoethane, 1,2-	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.8 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	
Dichlorobenzene, 1,2-	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorobenzene, 1,3-	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorobenzene, 1,4-	0.66 J	1.1 J	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorodifluoromethane	1.7	2.1 J	1.7 J	2.6	2.5	2.5	3.3	2.9	2.4	2.8	3.2	12	10	14	13	13	10	12	13	
Dichloroethane, 1,1-	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	
Dichloroethane, 1,2-	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	
Dichloroethane, 1,1-	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	
Dichloroethane, cis-1,2-	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	
Dichloropropane, 1,2-	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	
Dichloropropene, cis-1,3	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	
Dichloropropene, trans-1,3	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	
Dioxane, 1,4-	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	
Dodecane, n-	0.84 J	0.84 J	7.0 U	3.0 J	3.5 U	3.5 U	2.8 U	2.8 U	2.8 U	2.8 U	0.97 J	2.8 U	2.0 J	1.3 J	1.4 U	0.56 J	1.4 U	1.4 U	0.56 J	
Ethanol	0.79 J	1.9 U	9.4 UJ	4.7 U	1.9 J	4.7 U	2.0 J	3.8 U	3.8 U	3.8 U	1.7 J	5.8	4.5	7.7	6.8	1.9 U	10	2.0	1.7 J	
Ethylthiophene, 2-	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-11 8/10/2009	OU2SG-11 8/18/2009	OU2SG-11 8/26/2009	OU2SG-11 9/22/2009	OU2SG-11 10/14/2009	OU2SG-11 10/19/2009	OU2SG-11 10/30/2009	OU2SG-11 11/11/2009	OU2SG-11 11/17/2009	OU2SG-11 11/18/2009	OU2SG-11 12/28/2009	OU2SG-12 12/30/2008	Duplicate of OU2SG-12 12/30/2008	OU2SG-12a 1/20/2009	Duplicate of OU2SG-12a 1/20/2009	OU2SG-12p 1/20/2009	OU2SG-12a 1/21/2009	OU2SG-12p 1/21/2009	OU2SG-12 1/22/2009
Sample Date:	8/10/2009	8/18/2009	8/26/2009	9/22/2009	10/14/2009	10/19/2009	10/30/2009	11/11/2009	11/17/2009	11/18/2009	12/28/2009	12/30/2008	12/30/2008	1/20/2009	1/20/2009	1/20/2009	1/21/2009	1/21/2009	1/22/2009
Ethyltoluene, p-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.25 J	0.37 J	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	11 U	5.3 U	5.3 U	5.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 UJ	2.1 UJ	2.1 UJ	2.1 U	2.1 U	2.1 U
Hexane, n-	0.70 U	0.70 U	3.5 U	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.70 U	0.70 U	0.70 U	0.70 U	0.7 U	0.19 J	0.32 J	0.70 U
Hexanone, 2-	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	4.8 U	2.4 U	2.4 U	2.4 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	4.8 U	2.4 U	2.4 U	2.4 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	4.1 UJ	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.82 U	0.43 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	0.83 J	8.7 U	4.3 U	4.3 U	4.3 U	3.5 U	1.4 J	1.3 J	3.5 U	3.5 U	1.7 U	1.7 U	0.69 U	0.69 U	0.69 U	0.73 U	0.76 U	0.81 U
Methylnaphthalene, 1-	1.2 U	1.2 UJ	5.8 UJ	2.9 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	R	R	5.8 UJ	5.8 UJ	5.8 UJ	5.8 U	5.8 U	5.8 U
Methylnaphthalene, 2-	1.2 U	1.2 UJ	5.8 UJ	2.9 U	2.9 U	2.9 U	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 U	14 UJ	14 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methylthiophene, 2-	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U
Nonane	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	1.3 J	2.1 U	0.34 J	1.0 U	1.0 U	1.0 U	1 U	1.0 U	0.37 J	1.0 U
Octane, n-	0.93 U	0.93 U	4.7 U	2.3 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.93 U	0.27 J	0.55 J	0.52 J	0.93 U	0.93 U	0.37 J	0.93 U
Pentane	0.47 J	0.38 J	3.0 U	0.59 J	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.81	0.80	0.59 U
Propanol, 2-	2.8 U	1.2 U	6.1 U	3.0 U	3.0 U	3.0 U	0.93 J	2.5 U	2.5 U	2.5 U	2.5 U	0.49 UJ	0.49 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	4.3 U	2.1 U	2.1 U	2.1 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	3.0 U	1.5 U	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	6.9 U	3.4 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	0.54 J	0.61 J	6.8 U	3.4 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.52 J	0.49 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.49 J	1.5 J	5.5 UJ	2.7 UJ	2.7 U	2.7 U	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	0.46 J	7.7 U	3.8 U	3.8 U	3.8 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	1.0 J	0.60 J	0.39 J	0.52 J	0.51 J	0.55 J	0.54 J	0.84 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	7.4 U	3.7 U	3.7 U	3.7 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.5 UJ	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.0 J	1.2 J	5.6 U	1.1 J	1.1 J	1.1 J	1.2 J	1.2 J	1.2 J	1.2 J	1.2 J	81	63	100	100	100	71	93	100
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.29 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.29 J	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.5 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.49 J	0.39 J
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.25 J	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	4.7 U	2.3 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.3 U	1.3 U	6.4 U	3.2 U	3.2 U	3.2 U	2.6 U	2.6 U	2.6 U	1.8 J	2.6 U	0.43 J	0.61 J	1.3 U	0.49 J	0.75 J	0.32 J	0.96 J	1.0 J
Vinyl bromide	0.87 U	0.87 U	4.4 U	2.2 U	2.2 U	2.2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	2.6 U	1.3 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																			
Carbon Dioxide	6.6	5.93	4.86	3.69	3.7	2.67	5.72	5.05	3.47	3.08	3.94	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.0181 U	0.0224 U	0.0178 U	0.0173 U	0.00369 U	0.00304 U	0.00346 U	0.0186 U	0.017 U	0.0171 U	0.0152 U	0.0228	0.0242	0.0188	0.0154	0.0174	0.0154	0.0147	0.017

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	Duplicate of OU2SG-12 1/22/2009	OU2SG-12 1/23/2009	OU2SG-12 1/25/2009	OU2SG-12 1/26/2009	Duplicate of OU2SG-12 1/26/2009	OU2SG-12 1/30/2009	OU2SG-12 2/5/2009	OU2SG-12 2/13/2009	OU2SG-12 2/23/2009	Duplicate of OU2SG-12 2/23/2009	OU2SG-12 3/25/2009	OU2SG-12 4/14/2009	OU2SG-12 5/11/2009
BTEx (ug/m3)													
Benzene	0.64 U	0.64 U	0.18 J	0.64 U	0.64 U	0.31 J	0.64 U	0.64 U	0.64 U	0.29 J	0.37 J	0.26 J	1.4
Toluene	0.58 J	0.49 J	0.68 J	0.39 J	0.33 J	1.3	0.54 J	0.48 J	0.34 J	1.2	1.4	1.2	11
Ethylbenzene	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.24 J	0.87 U	0.52 J	0.30 J	0.43 J	0.98 J	0.39 J	32
Xylene, m,p-	0.63 J	0.33 J	0.43 J	0.40 J	0.39 J	0.69 J	0.77 J	1.9	1.1 J	1.6 J	2.2	0.91 J	17
Xylene, o-	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.24 J	0.36 J	0.99	0.82 J	0.95	2.3	1.9	13
Other VOCs (ug/m3)													
Acetaldehyde	1.8 UJ	5.6 J	5.3 J	5.0 J	5.1 J	4.9 J	3.3 J	4.5 U	2.2 U	2.5 U	3.7 U	3.6 U	4.5 UJ
Acetone	2.8 U	4.7 U	3.5 U	9.8	9.4	3.9 U	2.3 UJ	3.1 U	2.4 U	3.8 U	2.0 J	2.9 J	4.0 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	14 UJ	1.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.33 J	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.48 U	0.39 J	0.85	0.48 U	0.32 J	1.2	0.37 J	0.48 U	0.55 J	0.64 J	0.73	1.8	1.2
Butanone, 2-	0.59 U	0.62	0.57 J	1.2	1.1	0.55 J	0.59	0.79	0.38 J	0.53 J	0.59 U	0.89	0.60
Carbon disulfide	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.29 J	0.23 J	0.26 J	0.25 J	0.19 J	0.42 J	0.62 U	2.1
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	12	14	12	11	11	12	12	16	25	21	31	40	49
Chloromethane	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.13 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.34 J
Decane, n-	1.2 U	0.71 J	0.84 J	1.2 U	1.2 U	1.2	1.4	4.4	1.2	1.3	1.5	1.3	2.7 J
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	14	13	13	12	12	13	8.5	12	12	10	6.6	7.0	4.0
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.7 U
Dodecane, n-	1.4 U	0.70 J	0.91 J	1.4 U	1.4 U	0.44 J	8.8 J	5.0 J	1.4 J	1.2 J	0.56 J	4.1	4.5
Ethanol	1.8 J	16	5.7	17	17	7.0	2.0	3.0 U	1.7 J	3.0 J	7.0	5.0	7.0
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	Duplicate of OU2SG-12 1/22/2009	OU2SG-12 1/23/2009	OU2SG-12 1/25/2009	OU2SG-12 1/26/2009	Duplicate of OU2SG-12 1/26/2009	OU2SG-12 1/30/2009	OU2SG-12 2/5/2009	OU2SG-12 2/13/2009	OU2SG-12 2/23/2009	Duplicate of OU2SG-12 2/23/2009	OU2SG-12 3/25/2009	OU2SG-12 4/14/2009	OU2SG-12 5/11/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.27 J	0.87 J	0.49 J	0.54 J	2.5	1.1	25
Heptane, n-	0.82 U	0.82 U	0.25 J	0.82 U	0.82 U	0.39 J	0.82 U	0.82 UJ	0.29 J	0.25 J	4.6	0.94	30
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U
Hexane, n-	0.70 U	0.70 U	0.24 J	0.70 U	0.70 U	0.40 J	0.70 U	0.70 UJ	0.21 J	0.32 J	0.69 J	1.1	5.3
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.34 J	1.5	0.92 J	0.87 J	1.7	0.95 J	170
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.4
Methylene chloride	0.75 U	0.75 U	0.73 U	0.69 U	0.70 U	0.72 U	0.69 U	0.69 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4
Methylnaphthalene, 1-	5.8 U	5.8 U	5.8 UJ	5.8 UJ	5.8 UJ	5.8 U	1.2 U	0.49 J	2.9 U	2.9 U	2.9 U	5.8 U	11 J
Methylnaphthalene, 2-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 UJ	1.2 U	0.73 J	2.9 U	2.9 U	0.37 J	5.8 U	21
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	1.0 U	1.0 U	1.0 UJ	11
Nonane	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	0.36 J	0.46 J	1.1	0.47 J	0.42 J	1.1	0.36 J	2.0
Octane, n-	0.93 U	0.93 U	0.67 J	0.93 U	0.93 U	1.4	0.93 U	0.62 J	0.56 J	0.42 J	4.9	0.80 J	31
Pentane	0.59 U	0.27 J	0.61	0.59 U	0.59 U	0.82	0.59 U	0.59 U	0.44 J	1.2	0.93	2.5	6.3
Propanol, 2-	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 U	0.49 UJ	0.49 U	1.2 UJ	1.2 UJ	1.2 UJ	0.49 UJ	1.2 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.2	0.32 J	1.4
t-Butyl alcohol	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.5 U	0.61 U	0.61 U	0.61 U	0.26 J	0.22 J
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.49 J	1.5	0.47 J	0.36 J	0.54 J	1.1 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.28 J	4.7 J	1.9 J	1.8 J	6.6	19 J	390 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.56 J	0.52 J	0.51 J	1.5 U	1.5 U	0.60 J	0.52 J	0.57 J	0.69 J	0.69 J	0.90 J	1.3 J	2.3
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.44 J	0.64 J	1.2
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	110	110	110	100	97	120	89	130	160	130	140	190	330
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.79 J	3.0	1.5	1.4	5.1	3.2	170
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	1.2	5.0	2.6	2.6	3.4	2.1	19
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.37 J	1.2	0.74 J	0.69 J	2.5	1.0	16
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.3 U	1.3 U	0.56 J	1.3 U	1.3 U	1.3 U	6.4	8.4	1.8	2.2	0.85 J	5.4	1.3 UJ
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)													
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.89	3.93
Helium	0.0152	0.0167	0.0151	0.017	0.0165	0.0153	0.0144	0.03	0.017	0.0178	0.024	0.0208	0.0219 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-12 6/16/2009	OU2SG-12 7/30/2009	Duplicate of OU2SG-12 7/30/2009	OU2SG-12 8/26/2009	OU2SG-12 9/23/2009	Duplicate of OU2SG-12 9/23/2009	OU2SG-12 10/19/2009	OU2SG-12 11/18/2009	Duplicate of OU2SG-12 11/18/2009	OU2SG-12 12/28/2009	OU2SG-15 12/29/2008	OU2SG-15 3/16/2009	OU2SG-15 6/16/2009	OU2SG-15 9/21/2009	OU2SG-15 12/18/2009	OU2SG-16 12/29/2008
BTEX (ug/m3)																
Benzene	0.64	0.41 J	0.38 J	0.96 J	1.6 U	1.6 U	1.6 U	1.3 U	1.3 U	0.38 J	0.64 U	0.64 U	0.64 U	1.3 U	1.3 U	0.64 U
Toluene	5.4	2.2	2.6	1.7 J	1.9 U	1.9 U	0.75 J	1.5 U	3.5	0.38 J	2.5	3.1	4.9	2.3	1.5 U	46
Ethylbenzene	0.87 U	1.0	1.2	2.0 J	2.2 U	2.2 U	2.2 U	1.7 U	0.43 J	1.7 U	0.37 J	0.45 J	0.57 J	0.43 J	1.7 U	0.65 J
Xylene, m,p-	1.7 U	2.4	2.6	4.1 J	4.3 U	4.3 U	4.3 U	3.5 U	1.6 J	3.5 U	1.4 J	1.7 J	2.4	1.2 J	3.5 U	14
Xylene, o-	0.50 J	1.3	1.4	2.2 J	2.2 U	2.2 U	2.2 U	1.7 U	0.69 J	1.7 U	0.70 J	0.85 J	1.3	0.78 J	1.7 U	5.9
Other VOCs (ug/m3)																
Acetaldehyde	5.8 U	45	48	22 U	7.4 U	6.0 U	4.5 U	9.0 U	9.0 U	9.0 U	3.3 U	2.7 U	7.1	7.3 J	4.2	4.0 J
Acetone	4.4 U	23	24	14 UJ	4.5 U	3.5 U	4.5 U	1.4 J	1.2 J	1.7 J	2.0 U	2.0 U	4.2 U	5.5 UJ	4.8 U	2.0 U
Acrolein (propenal)	0.39 J	1.8	2.0	5.7 U	2.9 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.36 J	2.3 U	2.3 U	0.46 U
Allyl chloride	0.63 U	0.63 U	0.63 U	3.1 U	1.6 U	1.6 U	1.6 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	1.2 U	1.2 U	0.63 U
Benzothiophene	1.1 U	1.1 UJ	1.1 UJ	5.5 UJ	2.7 U	2.7 U	2.7 U	2.2 UJ	2.2 UJ	2.2 U	1.1 UJ	1.1 U	1.1 U	2.2 U	2.2 U	1.1 UJ
Bromodichloromethane	1.1 J	2.1	2.1	6.7 U	1.5 J	1.3 J	3.4 U	0.80 J	0.67 J	2.7 U	1.3 U	1.3 U	1.3 U	2.7 U	2.7 U	1.3 U
Bromoform	2.1 UJ	2.1 U	2.1 U	10 U	5.2 U	5.2 U	5.2 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	4.1 U	4.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	3.9 U	1.9 U	1.9 U	1.9 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	1.6 U	1.6 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	2.2 U	1.1 U	1.1 U	1.1 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	0.44 U
Butane	1.4	0.45 J	0.52	2.4 U	1.2	1.0 J	1.2 U	0.95 U	0.95 U	0.57 J	0.48 U	0.48 U	0.48 U	0.95 U	0.95 U	0.63
Butanone, 2-	4.4	3.4	4.3	3.0 U	1.5 U	1.5 U	1.5 U	1.2 U	1.2 U	0.29 J	0.59 U	0.59 U	0.51 J	1.2 U	1.2 U	0.59 U
Carbon disulfide	0.79	1.6	1.6	3.1 U	1.6 U	1.6 U	1.6 U	0.37 J	1.2 U	0.37 J	1.7	2.3	9.7	6.9	0.37 J	8.7
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	6.3 U	3.1 U	3.1 U	3.1 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	2.5 U	2.5 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	2.6 U	1.3 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	1.0 U	1.0 U	0.53 U
Chloroform	29	39	41	37	26	33	16	18	17	12	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.8
Chloromethane	0.22 J	0.39 J	0.39 J	0.62 J	1.0 U	1.0 U	1.0 U	0.83 U	0.83 U	0.83 U	0.41 U	0.41 U	0.12 J	0.83 U	0.83 U	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	2.1 U	2.1 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	7.0 U	3.5 U	3.5 U	3.5 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	2.8 U	2.8 U	1.4 U
Cyclohexane	0.18 J	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.7 U	1.4 U	1.4 U	1.4 UJ	0.24 J	0.51 J	0.58 J	0.55 J	1.4 U	150
Decane, n-	1.2 U	60	68	5.8 U	2.9 U	2.9 U	2.9 U	2.3 U	1.3 J	2.3 U	1.2 U	1.2 U	1.2 U	2.3 U	2.3 U	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	8.5 U	4.3 U	4.3 U	4.3 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	3.4 U	3.4 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.8 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	3.1 U	3.1 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	0.75 J	0.72 J	2.4 U
Dichlorobenzene, 1,3-	1.2 U	1.2	1.4	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	0.38 J	2.4 U	2.4 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	0.96 J	1.5	6.0 U	3.0 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	0.61 J	0.73 J	2.6	2.4	2.4 U	0.31 J
Dichlorodifluoromethane	2.6	4.8	4.8	4.2 J	3.8	3.6	2.7	2.7	2.5	2.8	2.9	2.2	1.2	2.9	2.3	2.2
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	0.91 U
Dioxane, 1,4-	0.72 UJ	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 UJ	0.72 U	0.72 U	0.72 UJ	1.4 U	1.4 U	0.72 U
Dodecane, n-	1.4 U	10 J	29 J	7.0 U	3.5 U	3.5 U	3.5 U	2.8 U	0.70 J	2.9	1.4 U	0.38 J	0.71 J	2.8 U	2.8 UJ	1.4 UJ
Ethanol	9.9	17	23	9.4 UJ	3.5 J	3.6 J	5.3	2.1 J	1.4 J	0.98 J	1.1 J	1.7 J	7.6	3.8 U	1.2 J	1.6 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-12 6/16/2009	OU2SG-12 7/30/2009	Duplicate of OU2SG-12 7/30/2009	OU2SG-12 8/26/2009	OU2SG-12 9/23/2009	Duplicate of OU2SG-12 9/23/2009	OU2SG-12 10/19/2009	OU2SG-12 11/18/2009	Duplicate of OU2SG-12 11/18/2009	OU2SG-12 12/28/2009	OU2SG-15 12/29/2008	OU2SG-15 3/16/2009	OU2SG-15 6/16/2009	OU2SG-15 9/21/2009	OU2SG-15 12/18/2009	OU2SG-16 12/29/2008
Sample Date:																
Ethyltoluene, p-	0.98 U	2.0	2.3	4.4 J	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	0.36 J
Heptane, n-	0.87	1.4	1.6	2.5 J	2.0 U	2.0 U	2.0 U	1.6 U	0.74 J	1.6 U	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	0.38 J
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	11 U	5.3 U	5.3 U	5.3 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	4.3 UJ	4.3 U	2.1 U
Hexane, n-	1.0	0.53 J	0.70	3.5 U	0.53 J	1.8 U	0.53 J	1.4 U	1.4 U	0.49 J	0.70 U	0.70 U	0.70 U	1.4 U	1.4 U	17
Hexanone, 2-	0.82 U	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	1.6 U	1.6 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.83 J	8.4	9.5	20	0.60 J	0.72 J	2.4 U	1.9 U	1.9 U	1.9 U	0.97 U	0.27 J	0.64 J	1.9 U	1.9 UJ	0.97 U
Indene	0.95 UJ	0.95 U	0.95 U	4.8 U	2.4 U	2.4 U	2.4 U	1.9 U	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	1.9 U	1.9 UJ	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82	0.82 U	4.1 UJ	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	0.82 U
Methylene chloride	1.1 J	0.56 J	1.6 J	8.7 U	4.3 U	4.3 U	4.3 U	3.5 U	3.5 U	3.4 U	2.7 U	1.7 U	1.7 U	3.5 U	3.5 U	1.7 U
Methylnaphthalene, 1-	1.2 U	0.35 J	0.41 J	5.8 UJ	2.9 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	5.8 UJ	1.2 U	0.76 J	1.2 J	2.3 U	R
Methylnaphthalene, 2-	1.2 U	0.64 J	0.99 J	5.8 UJ	2.9 U	2.9 U	2.9 U	2.3 UJ	2.3 UJ	2.3 U	5.8 U	1.2 U	1.2	2.0 J	2.3 U	14 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	0.80 U
Naphthalene	1.6	2.2 J	6.2 J	5.2 U	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	0.39 J	0.32 J	2.1	2.2	2.1 U	0.30 J
Nonane	1.0 U	1.6	1.9	2.1 J	2.6 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	2.1 U	2.1 U	1.0 U
Octane, n-	1.2	55	61	3.5 J	2.3 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	1.9 U	1.9 U	0.93 U
Pentane	4.6	0.62 J	2.7 J	3.0 U	1.4 J	1.4 J	1.5 U	0.65 J	0.59 J	1.1 J	0.59 U	0.59 U	0.59 U	1.2 U	1.2 U	1.4
Propanol, 2-	1.2 UJ	1.2 UJ	1.2 UJ	6.1 UJ	3.1 U	3.1 U	3.0 U	2.5 U	2.5 U	2.5 U	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	0.91 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	3.4	3.9	1.5 J	2.1 U	2.1 U	2.1 U	1.7 U	1.7 U	1.7 U	0.35 J	0.49 J	1.1	3.2	1.7 U	0.85 U
t-Butyl alcohol	0.30 J	0.61 U	0.61 U	3.0 U	1.5 U	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	0.61 U	1.5 U	0.22 J	0.48 J	1.2 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	6.9 U	3.4 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	2.7 U	2.7 U	1.4 U
Tetrachloroethene	2.0	4.9	5.4	6.1 J	4.6	4.7	1.9 J	2.0 J	2.2 J	0.68 J	2.0	2.1	5.9	3.1	2.7 U	4.2
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	110 J	11 J	28 J	10 J	58 J	71 J	14 J	13 J	2.3 J	0.77 J	1.0 J	1.4	1.7 J	1.8 J	2.2 U	0.72 J
Thiophene	0.69 U	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.7 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	2.5	3.1	3.1	3.1 J	2.9 J	2.7 J	1.9 J	1.7 J	1.7 J	1.5 J	0.66 J	0.60 J	0.66 J	3.1 U	3.1 U	0.44 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	7.4 U	3.7 U	3.7 U	3.7 U	3.0 U	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	3.0 U	3.0 U	1.5 U
Trichloroethane, 1,1,1-	1.4	2.7	3.0	3.0 J	2.3 J	2.0 J	1.5 J	1.1 J	1.2 J	0.98 J	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	1.1 U
Trichlorofluoromethane	370	850	780	800	620	610	370	300	270	150	1.4	1.1	1.4	1.7 J	1.1 J	1.4
Trimethylbenzene, 1,2,3-	1.7	5.9	6.7	8.1	1.8 J	2.1 J	2.5 U	0.59 J	2.0 U	2.0 U	0.78 J	1.1	0.96 J	0.59 J	2.0 UJ	1.6
Trimethylbenzene, 1,2,4-	0.98 U	4.1	4.8	3.7 J	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	0.98 U	0.31 J	2.1	0.88 J	2.0 U	0.72 J
Trimethylbenzene, 1,3,5-	0.98 U	1.5	1.7	2.5 J	2.5 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	0.33 J	0.47 J	0.52 J	2.0 U	2.0 U	0.65 J
Trimethylpentane, 2,2,4-	0.93 U	2.2	2.2	4.7 U	2.3 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	1.9 U	1.9 U	0.93 U
Undecane, n-	1.3 U	6.8 J	12 J	6.4 U	3.2 U	3.2 U	3.2 U	2.6 U	1.5 J	1.8 J	1.3 U	1.3 U	1.3 U	2.6 U	2.6 U	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	4.4 U	2.2 U	2.2 U	2.2 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	1.8 U	1.8 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	2.6 U	1.3 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	0.51 U
Other (%)																
Carbon Dioxide	4.41	8.56	7.98	10.3	8.67	8.57	7.04	5.55	5.47	3.49	NA	NA	NA	NA	NA	NA
Helium	0.0145	0.0228 U	0.0204 U	0.018 U	0.0183 U	0.0171 U	0.00332 U	0.0153 U	0.0159 U	0.0166 U	0.0231	0.0183 U	0.0185	0.00378 U	0.0157 U	0.0158

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-16	OU2SG-16	OU2SG-16	OU2SG-17	OU2SG-17	OU2SG-17	OU2SG-17	OU2SG-17	OU2SG-17	OU2SG-17	OU2SG-18	Duplicate of	OU2SG-18	OU2SG-18	OU2SG-18	OU2SG-18	OU2SG-18
Sample Date:	3/17/2009	9/29/2009	12/18/2009	4/3/2008	12/29/2008	3/17/2009	6/16/2009	9/29/2009	12/18/2009	12/29/2008	12/29/2008	OU2SG-18	3/18/2009	6/16/2009	9/29/2009	12/18/2009	3/19/2009
BTEX (ug/m3)																	
Benzene	0.19 J	1.6 U	1.3 U	0.25 J	0.36 J	0.59 J	0.64 U	1.6 U	1.3 U	0.64 U	0.64 U	0.64 U	0.67 U	1.6 U	1.3 U	0.24 J	
Toluene	2.3	1.7 J	55	1.6	0.70 J	20	32	27	4.6	0.25 J	0.27 J	0.54 J	17	3.8	0.83 J	1.2	
Ethylbenzene	0.61 J	2.2 U	1.3 J	0.50 J	0.23 J	2.2 J	2.0	3.2	1.7 U	0.87 U	0.87 U	0.35 J	1.1	2.2 U	1.7 U	0.38 J	
Xylene, m,p-	1.9	1.2 J	1.9 J	1.5 J	0.53 J	9.0	2.3	7.8	3.5 U	1.7 U	1.7 U	0.74 J	0.79 J	4.3 U	3.5 U	1.1 J	
Xylene, o-	1.1	2.2 U	0.43 J	0.97	0.22 J	3.2	1.3	3.5	1.7 U	0.87 U	0.87 U	0.43 J	1.5	0.54 J	1.7 U	0.40 J	
Other VOCs (ug/m3)																	
Acetaldehyde	6.6	7.2	2.7 J	12	3.8 J	6.6 J	5.7 U	4.3 J	2.2 J	4.3 J	4.1 J	2.7 U	4.5 U	4.8	3.6 UJ	3.8 U	
Acetone	4.4 J	7.6 U	5.4 UJ	7.7 U	2.8 U	4.8 J	2.8 U	6.0 U	4.8 U	1.8 U	1.7 U	2.5 U	2.9 U	3.7 U	4.8 U	3.8 U	
Acrolein (propenal)	0.46 U	2.9 U	2.3 U	0.44 J	0.46 U	1.2	1.2 UJ	2.9 U	2.3 U	0.46 U	0.46 U	0.46 U	1.2 UJ	2.9 U	2.3 U	0.19 J	
Allyl chloride	0.63 U	1.6 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.2 U	0.63 U	
Benzothiophene	2.7 U	2.7 U	2.2 U	1.1 UJ	1.1 UJ	2.7 U	1.1 U	2.7 U	2.2 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U	
Bromodichloromethane	1.3 U	3.4 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	2.7 U	1.3 U	
Bromoform	2.1 U	5.2 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	4.1 U	2.1 U	
Bromomethane	0.78 U	1.9 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.6 U	0.78 U	
Butadiene, 1,3-	0.44 U	1.1 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	0.88 U	0.44 U	
Butane	0.48 U	1.2 U	1.2	0.28 J	0.62	0.47 J	0.24 J	1.2 U	0.48 J	0.48 U	0.48 U	0.46 J	0.35 J	1.2 U	0.52 J	1.9	
Butanone, 2-	1.4	1.5 U	1.2 U	2.3	0.38 J	1.1	0.59	1.5 U	1.2 U	0.59 U	0.59 U	0.59 U	0.47 J	1.5 U	1.2 U	0.64	
Carbon disulfide	0.62 U	1.6 U	1.1 J	1.6	0.62 U	4.3	73	42	15	0.23 J	0.62 U	0.18 J	22	26	6.7	0.72	
Carbon tetrachloride	1.3 U	3.1 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	2.5 U	1.3 U	
Chlorobenzene	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	
Chloroethane	0.53 U	1.3 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.0 U	0.53 U	
Chloroform	3.4	8.3	3.1	1.7	0.50 J	0.27 J	0.82 J	2.4 U	2.0 U	0.32 J	0.30 J	15	0.75 J	2.4 U	1.5 J	3.3	
Chloromethane	0.41 U	1.0 U	0.83 U	0.19 J	0.26 J	0.23 J	0.15 J	1.0 U	0.21 J	0.41 U	0.41 U	0.13 J	0.13 J	1.0 U	0.21 J	0.15 J	
Chlorotoluene, 2-	1.0 U	2.6 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.1 U	1.0 U	
Cryofluorane	1.4 U	3.5 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	3.5 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	3.5 U	2.8 U	1.4 U	
Cyclohexane	0.62 J	0.60 J	20	0.69 U	0.65 J	2.4	3.2	2.3	0.89 J	0.69 U	0.69 U	0.69 U	4.3	2.6	1.3 J	0.69 U	
Decane, n-	2.9	2.9 U	2.3 U	1.4	1.7	1.1 J	1.2 U	2.9 U	2.3 U	0.70 J	0.77 J	1.2	0.41 J	2.9 U	2.3 U	1.4	
Dibromochloromethane	1.7 U	4.3 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	3.4 U	1.7 U	
Dibromoethane, 1,2-	1.5 U	3.8 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.1 U	1.5 U	
Dichlorobenzene, 1,2-	1.2 U	3.0 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	2.4 U	1.2 U	1.2 U	1.2 U	0.41 J	3.0 U	2.4 U	1.2 U	
Dichlorobenzene, 1,3-	4.9	3.0 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	2.4 U	1.2 U	1.2 U	1.2 U	0.37 J	3.0 U	2.4 U	1.2 U	
Dichlorobenzene, 1,4-	1.6	3.0 U	2.4 U	1.2 U	1.2 U	0.73 J	1.2 U	2.1 J	2.4 U	1.2 U	1.2 U	1.2 U	2.9	2.0 J	2.4 U	1.2 U	
Dichlorodifluoromethane	2.4	2.6	2.5	2.9	2.5	2.2	1.6	2.4 J	2.4	2.5	2.4	2.1	1.4	2.5	2.4	2.0	
Dichloroethane, 1,1-	0.81 U	2.0 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	1.6 U	0.81 U	
Dichloroethane, 1,2-	0.81 UJ	2.0 U	1.6 U	0.81 U	0.81 U	0.81 UJ	0.81 U	2.0 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	1.6 U	0.81 U	
Dichloroethene, 1,1-	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	
Dichloroethene, cis-1,2-	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	2.2	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	
Dichloropropane, 1,2-	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	
Dichloropropene, cis-1,3	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	
Dichloropropene, trans-1,3	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	
Dioxane, 1,4-	0.72 U	1.8 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 UJ	1.8 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 UJ	1.8 U	1.4 U	0.72 U	
Dodecane, n-	1.5 J	1.9 J	2.8 UJ	0.70 J	1.3 J	2.1 J	1.4 U	3.5 U	2.8 UJ	1.4 J	0.79 J	2.4 J	3.1	3.5 U	2.8 UJ	4.0 J	
Ethanol	93	6.5	7.3	6.4	5.3	7.4	4.0	1.8 J	1.0 J	1.7 J	2.3	7.6	2.6 U	1.2 J	1.0 J	8.0	
Ethylthiophene, 2-	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-16 3/17/2009	OU2SG-16 9/29/2009	OU2SG-16 12/18/2009	OU2SG-17 4/3/2008	OU2SG-17 12/29/2008	OU2SG-17 3/17/2009	OU2SG-17 6/16/2009	OU2SG-17 9/29/2009	OU2SG-17 12/18/2009	OU2SG-18 12/29/2008	Duplicate of OU2SG-18 12/29/2008	OU2SG-18 3/18/2009	OU2SG-18 6/16/2009	OU2SG-18 9/29/2009	OU2SG-18 12/18/2009	OU2SG-19 3/19/2009
Sample Date:																
Ethyltoluene, p-	0.54 J	2.5 U	2.0 U	0.98 U	0.98 U	0.75 J	0.98 U	2.5 U	2.0 U	0.98 U	0.98 U	0.98 U	0.29 J	2.5 U	2.0 U	0.98 U
Heptane, n-	0.82 U	2.0 U	1.6 U	0.82 UJ	0.82 U	0.82 U	0.82 U	2.0 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	1.6 U	0.82 U
Hexachlorobutadiene	2.1 U	5.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	4.3 U	2.1 U
Hexane, n-	0.28 J	1.8 U	2.1	0.70 U	0.30 J	0.67 J	0.18 J	1.8 U	1.4 U	0.70 U	0.70 U	0.70 U	0.19 J	1.8 U	1.4 U	0.51 J
Hexanone, 2-	2.0 U	2.0 UJ	1.6 U	0.82 U	0.82 U	2.0 U	0.82 U	2.0 UJ	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 UJ	1.6 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.68 J	2.4 U	1.9 UJ	0.97 U	0.97 U	0.90 J	0.97 U	0.72 J	1.9 UJ	0.97 U	0.97 U	0.97 U	0.35 J	2.4 U	1.9 UJ	0.97 U
Indene	0.95 U	2.4 U	1.9 UJ	0.95 U	0.95 U	0.79 J	0.95 U	2.4 U	1.9 UJ	0.95 U	0.95 U	0.95 U	0.95 U	2.4 U	1.9 UJ	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	1.8 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.4 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	2.0 U	1.6 U	0.82 U	0.88	0.82 U	0.82 U	2.0 U	1.6 U	0.33 J	0.82 U	0.82 U	0.82 U	2.0 U	1.6 U	0.82 U
Methylene chloride	1.7 U	4.3 U	3.5 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	3.5 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	3.5 U	1.7 U
Methylnaphthalene, 1-	2.9 UJ	2.9 U	2.3 U	1.2 UJ	R	1.3 J	1.2 U	2.9 U	2.3 U	R	R	1.2 U	0.29 J	2.9 U	2.3 U	1.2 U
Methylnaphthalene, 2-	2.9 UJ	2.9 UJ	2.3 U	1.2 UJ	14 UJ	2.6 J	1.2 U	2.9 UJ	2.3 U	14 UJ	14 UJ	1.2 U	0.37 J	2.9 UJ	2.3 U	1.2 U
Methylthiophene, 2-	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U
Methylthiophene, 3-	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U
Naphthalene	0.47 J	2.6 U	2.1 U	1.0 U	1.0 U	3.9	1.0 U	2.6 U	2.1 U	1.0 U	1.0 U	1.0 U	0.78 J	2.6 U	2.1 U	1.0 U
Nonane	1.3	2.6 U	2.1 U	1.0 U	0.29 J	1.0 U	1.0 U	2.6 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.1 U	1.0 U
Octane, n-	0.75 J	2.3 U	1.9 U	4.3	0.31 J	0.33 J	0.93 U	2.3 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	1.9 U	0.25 J
Pentane	0.59 U	1.5 U	1.2 U	0.75	2.4	0.72	0.53 J	1.5 U	0.88 J	0.59 U	0.59 U	0.53 J	0.37 J	1.5 U	0.65 J	1.3
Propanol, 2-	14	3.0 U	2.4 U	1.5	1.2 UJ	1.0 J	1.2 U	3.0 U	2.4 U	0.60 UJ	0.56 UJ	1.2 U	1.2 U	3.0 U	2.4 U	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	2.1 U	1.7 U	0.85 U	0.85 U	0.80 J	0.85 U	1.1 J	1.7 U	0.85 U	0.85 U	0.85 U	0.37 J	2.1 U	1.7 U	0.85 U
t-Butyl alcohol	0.15 J	1.5 U	0.55 J	0.94	0.61 U	0.21 J	0.73	1.5 U	1.2 U	0.61 U	0.61 U	0.25 J	0.29 J	1.5 U	1.2 U	0.22 J
Tetrachloroethane, 1,1,2,2-	1.4 U	3.4 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	2.7 U	1.4 U
Tetrachloroethene	1.8	1.0 J	2.7 U	3.9	0.40 J	10	22	19	3.9	1.4 U	1.4 U	1.4 U	22	17	4.2	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.66 J	2.7 UJ	2.2 U	1.1 U	1.1 U	1.6 J	1.1 U	2.6 J	2.2 U	1.1 U	1.1 U	1.1 U	1.1 J	2.7 UJ	2.2 U	1.1 U
Thiophene	0.69 U	1.7 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.4 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.46 J	3.8 U	3.1 U	0.74 J	0.58 J	0.42 J	0.74 J	3.8 U	3.1 U	0.80 J	0.59 J	0.50 J	0.77 J	3.8 U	3.1 U	0.48 J
Trichlorobenzene, 1,2,4-	1.5 U	3.7 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.0 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U
Trichloroethene	1.1 U	2.7 U	2.2 U	1.1 U	1.1	1.1 U	1.3	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	0.60 J	2.7 U	2.2 U	1.1 U
Trichlorofluoromethane	1.2	1.5 J	1.4 J	1.9	1.5	1.2	2.0	1.4 J	1.0 J	1.5	1.7	1.9	1.6	1.4 J	1.1 J	1.1 J
Trimethylbenzene, 1,2,3-	3.0	2.5 U	2.0 UJ	0.66 J	0.33 J	3.4	0.98 U	2.2 J	2.0 UJ	0.98 U	0.98 U	0.53 J	1.1	2.5 U	2.0 UJ	0.38 J
Trimethylbenzene, 1,2,4-	0.79 J	0.74 J	2.0 U	0.98 U	0.98 U	1.1	0.98 U	2.5	2.0 U	0.98 U	0.98 U	0.98 U	0.34 J	2.5 U	2.0 U	0.98 U
Trimethylbenzene, 1,3,5-	1.3	2.5 U	2.0 U	0.38 J	0.98 U	1.4	0.98 U	1.4 J	2.0 U	0.98 U	0.98 U	0.58 J	0.98 U	2.5 U	2.0 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	2.3 U	1.9 U	0.93 UJ	0.93 U	0.93 U	0.93 U	2.3 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	1.9 U	0.93 U
Undecane, n-	1.8	3.2 U	2.6 U	0.92 J	1.3 U	2.0	1.3 U	3.2 U	2.6 U	0.38 J	1.3 U	1.1 J	1.3 U	3.2 U	2.6 U	4.2
Vinyl bromide	0.87 U	2.2 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	1.8 U	0.87 U
Vinyl chloride	0.51 U	1.3 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.0 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.0197 U	0.00333 U	0.0144 U	NA	0.0196	0.0168 U	0.0182	0.00364 U	0.0158 U	0.0163	0.0166	0.027	0.0188	0.16	0.0144 U	0.035

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-19A 3/31/2009	Duplicate of OU2SG-19A 3/31/2009	OU2SG-19P 3/31/2009	OU2SG-19A 4/1/2009	OU2SG-19P 4/1/2009	Duplicate of OU2SG-19P 4/1/2009	OU2SG-19 4/2/2009	OU2SG-19 4/3/2009	OU2SG-19 4/4/2009	OU2SG-19 4/5/2009	Duplicate of OU2SG-19 4/5/2009	OU2SG-19 4/6/2009	OU2SG-19 4/10/2009	OU2SG-19 4/17/2009	OU2SG-19 4/24/2009
BTEX (ug/m3)															
Benzene	0.19 J	0.64 U	0.64 U	0.64 U	0.19 J	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
Toluene	0.49 J	0.27 J	0.27 J	0.28 J	0.65 J	0.33 J	0.34 J	0.44 J	0.34 J	0.45 J	0.45 J	0.29 J	0.41 J	0.38 J	0.21 J
Ethylbenzene	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Xylene, m,p-	0.87 J	0.30 J	0.28 J	1.7 U	0.71 J	1.7 U	1.7 U	0.43 J	1.7 U	1.7 U	1.7 U	0.51 J	0.69 J	0.63 J	1.7 U
Xylene, o-	0.31 J	0.87 U	0.87 U	0.87 U	0.22 J	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Other VOCs (ug/m3)															
Acetaldehyde	4.6 J	5.0 J	2.5 U	1.8 UJ	6.8 U	3.6 U	4.4 U	3.6 U	3.6 U	5.4 J	4.9 J	3.6 J	3.6 U	4.5 U	5.8 U
Acetone	3.4 J	2.5 J	1.8 U	1.8 UJ	4.4 U	2.7 U	2.2 U	2.1 U	1.8 U	2.1 J	2.4 J	1.6 J	1.9 U	1.8 UJ	2.7 J
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.53	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	2.7 U	2.7 U	2.7 U	2.7 U	14 Uj	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	1.3	1.2	1.4	1.3	1.2	1.1	1.2	1.2	1.2	1.1	1.0	1.0	1.2	2.1	0.83
Butanone, 2-	0.64	0.59 U	0.59 U	0.59 U	0.86	0.59 J	0.51 J	0.60	0.43 J	0.35 J	0.47 J	0.42 J	0.32 J	0.39 J	0.46 J
Carbon disulfide	2.8	3.2	2.4	2.6	1.6	1.4	2.4	2.5	2.0	1.7 B	1.7 U	3.2	3.7	5.4	2.4
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	3.5	4.0	3.4	3.1	2.9	3.3	3.2	3.1	3.5	3.8	3.5	3.4	3.6	3.0	3.3
Chloromethane	0.21 J	0.41 U	0.41 U	0.41 U	0.68 J	0.13 J	0.18 J	0.41 U	0.13 J	0.14 J	0.14 J	0.14 J	0.14 J	0.41 U	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.24 J	0.69 U
Decane, n-	0.30 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.39 J	1.2 U	1.2 U	0.41 J	1.2 U	1.2 U	0.42 J	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	2.7	2.5	2.6	2.4	2.5	2.6	2.5	2.6	3.0	3.0	2.8	2.8	3.1	2.9	2.6
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	2.6 J	0.81 J	0.44 J	0.38 J	0.41 J	0.60 J	1.8	0.40 J	0.62 J	1.2 J	1.2 J	0.42 J	0.56 J	1.2 J	0.44 J
Ethanol	2.5 J	1.2 J	3.2 J	1.2 J	3.2	1.4 J	1.5 J	1.1 J	1.2 J	0.83 J	1.4 J	0.58 J	1.1 J	1.3 J	0.68 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-19A 3/31/2009	Duplicate of OU2SG-19A 3/31/2009	OU2SG-19P 3/31/2009	OU2SG-19A 4/1/2009	OU2SG-19P 4/1/2009	Duplicate of OU2SG-19P 4/1/2009	OU2SG-19 4/2/2009	OU2SG-19 4/3/2009	OU2SG-19 4/4/2009	OU2SG-19 4/5/2009	Duplicate of OU2SG-19 4/5/2009	OU2SG-19 4/6/2009	OU2SG-19 4/10/2009	OU2SG-19 4/17/2009	OU2SG-19 4/24/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.85	0.67 J	1.8	4.4	1.1	0.94	0.51 J	1.2	0.51 J	1.0	1.0	0.82 U	0.57 J	0.54 J	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	0.59 J	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.19 J	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.26 J	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	1.2	0.70 U
Hexanone, 2-	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U	0.59 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.43 J	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	1.7 U	1.7 U	2.6 U	3.4 U	1.7 U	2.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.3 U
Methylnaphthalene, 1-	3.5 J	2.9 UJ	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 UJ
Methylnaphthalene, 2-	6.9 J	2.9 UJ	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.9 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	1.0 U
Nonane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U
Octane, n-	0.93 U	0.93 U	0.93 U	0.93 U	0.25 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.28 J	0.93 U
Pentane	0.76	0.65	0.74	0.71	1.1	0.58 J	0.64	0.65	0.68	0.62	0.62	0.56 J	0.65	1.5	0.41 J
Propanol, 2-	1.2 U	1.2 U	1.2 U	1.1 J	1.2 J	0.52 J	0.50	0.52 U	0.49 U	0.49 U	0.86	0.49 U	0.49 U	0.43 J	0.95 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.19 J	0.19 J	0.61 U	0.61 U	0.19 J	0.18 J	0.61 U	0.61 U	0.61 U	0.15 J	0.39 J	0.61 U	0.61 U	0.15 J	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	0.55 J	0.56 J	0.40 J	1.4 U	0.54 J	0.44 J	0.50 J	0.45 J	0.59 J	0.61 J	0.61 J	0.60 J	0.68 J	0.64 J	0.61 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.2 J	2.7 U	2.7 U	2.7 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.41 J	0.43 J	0.51 J	1.5 U	0.51 J	0.52 J	0.51 J	0.54 J	0.58 J	0.61 J	0.54 J	0.57 J	0.61 J	0.62 J	0.56 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.4	1.5	1.4	1.2	1.3	1.4	1.3	1.3	1.6	1.6	1.7	1.7	2.2	1.6	1.6
Trimethylbenzene, 1,2,3-	0.44 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.75 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	0.68 J	1.3 U	1.3 U	1.3 U	0.40 J	1.3 U	0.56 J	1.3 U	1.3 U	0.45 J	0.51 J	1.3 U	1.3 U	0.50 J	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)															
Carbon Dioxide	0.142 U	0.246	0.232	5.85	5.57	1.84	1.76	1.92	1.77	1.95	1.96	2.06	2.15	2.08	2.43
Helium	0.0142 U	0.0192 U	0.0196 U	0.018	0.0173	0.0149	0.025	0.0167	0.0209	0.0178	0.0198	0.0173	0.016	0.0176	0.0188

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	Duplicate of OU2SG-19 4/24/2009	OU2SG-19 5/13/2009	OU2SG-19 6/16/2009	OU2SG-19 7/13/2009	Duplicate of OU2SG-19 7/13/2009	OU2SG-19 8/10/2009	OU2SG-19 9/22/2009	OU2SG-19 10/14/2009	OU2SG-19 11/17/2009	Duplicate of: OU2SG-19 11/17/2009	OU2SG-19 12/28/2009	OU2SG-20 3/18/2009	OU2SG-20A 3/31/2009	OU2SG-20P 3/31/2009	OU2SG-20A 4/1/2009
BTEX (ug/m3)															
Benzene	0.64 U	0.64 U	0.30 J	3.2 U	0.64 U	0.64 U	1.6 U	1.6 U	1.3 U	1.3 U	1.3 U	8.9	3.9	1.7	2.8 J
Toluene	0.21 J	0.94	0.35 J	3.8 U	0.42 J	0.26 J	1.9 U	1.9 U	1.5 U	0.38 J	1.5 U	3.3	0.47 J	0.54 J	0.43 J
Ethylbenzene	0.87 U	0.87 U	0.87 U	4.3 U	0.87 U	0.87 U	2.2 U	2.2 U	1.7 U	1.7 U	1.7 U	4.0	0.74 J	0.49 J	0.48 J
Xylene, m,p-	1.7 U	0.52 J	1.7 U	8.7 U	1.7 U	1.7 U	4.3 U	4.3 U	3.5 U	3.5 U	3.5 U	2.9	0.37 J	3.5 U	1.7 U
Xylene, o-	0.87 U	0.87 U	0.87 U	4.3 U	0.87 U	0.87 U	2.2 U	2.2 U	1.7 U	1.7 U	1.7 U	2.3	1.5	0.97 J	0.89 J
Other VOCs (ug/m3)															
Acetaldehyde	6.0 J	4.5 UJ	8.0	22 UJ	10 J	7.1	9.1 U	8.6 U	9.0 UJ	9.0 UJ	9.0 UJ	1.8 UJ	1.8 UJ	3.6 UJ	1.8 UJ
Acetone	2.3 J	2.9 U	3.0 U	6.3 J	4.6 J	3.8 U	5.2 U	4.5 U	4.2 J	3.7 J	3.6 UJ	1.8 UJ	1.8 UJ	3.6 UJ	1.8 UJ
Acrolein (propenal)	0.46 U	1.2 U	0.47 J	5.7 U	1.2 U	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.92 U	0.46 U
Allyl chloride	0.63 U	0.63 U	0.63 U	3.1 U	0.63 U	0.63 U	1.6 U	1.6 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	1.2 U	0.63 U
Benzothiophene	14 UJ	1.1 U	1.1 U	5.5 UJ	1.1 UJ	1.1 UJ	2.7 U	2.7 U	2.2 UJ	2.2 UJ	2.2 U	1.1 U	2.7 U	5.5 U	2.7 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	1.3 U	1.3 U	2.7 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 UJ	10 U	2.1 U	2.1 U	5.2 U	5.2 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	4.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	3.9 U	0.78 U	0.78 U	1.9 U	1.9 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	1.6 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	2.2 U	0.44 U	0.44 U	1.1 U	1.1 U	0.88 U	0.88 U	0.88 U	0.24 J	0.44 UJ	0.88 UJ	0.44 UJ
Butane	0.75	0.76	0.54	2.4 U	0.36 J	0.55	1.2 U	1.2 U	1.1	0.86 J	280	50	20	18	15 J
Butanone, 2-	0.59 U	0.50 J	0.30 J	3.0 U	0.59 U	0.59 U	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	3.7	0.59 U	1.2 U	0.59 U
Carbon disulfide	2.1	4.0	1.9	4.5 J	2.6 J	1.8	1.6 U	0.78 J	0.50 J	1.4	0.37 J	9.0	1.1 U	1.2 U	1.1 U
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	6.3 U	1.3 U	1.3 U	3.1 U	3.1 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	2.5 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	1.8 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	2.6 U	0.53 U	0.53 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	0.53 U
Chloroform	3.4	5.3	8.3	16	13	18	10	6.3	3.8	3.4	2.0	49	46	60	42 J
Chloromethane	0.41 U	0.41 U	0.15 J	2.1 U	0.16 J	0.19 J	1.0 U	1.0 U	0.83 U	0.83 U	0.83 U	0.50	0.28 J	0.41 J	0.32 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	2.1 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	7.0 U	1.4 U	1.4 U	3.5 U	3.5 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	2.8 U	1.4 U
Cyclohexane	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U	1.4 U	1.4 UJ	5.3	0.72	1.4 U	0.48 J
Decane, n-	1.2 U	1.2 U	1.2 U	5.8 U	0.32 J	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	31	1.2 U	2.3 U	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	1.7 U	4.3 U	4.3 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	3.4 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	3.8 U	3.8 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	3.1 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	2.4 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	2.4 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	2.4 U	1.2 U
Dichlorodifluoromethane	2.9	2.1	1.9	6.6	4.8	7.1	6.7	6.8	3.3	3.1	3.1	3.1	5.0	5.3	4.2 J
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	1.6 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	1.6 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	1.6 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	1.4	1.4	0.56 J	1.0 J
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	1.8 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	1.8 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	1.8 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 UJ	0.72 UJ	3.6 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 UJ	0.72 U	0.72 U	1.4 U	0.72 U
Decadecane, n-	0.41 J	0.42 J	0.74 J	7.0 U	0.47 J	2.3	3.5 U	3.5 U	2.8 U	1.5 J	2.8 U	6.8 J	3.5 UJ	1.1 J	3.5 UJ
Ethanol	0.68 J	1.9 U	1.9 U	3.2 J	0.87 J	0.90 J	4.7 U	4.7 U	1.5 J	3.3 J	3.8 U	4.8	1.7 J	3.6 J	0.81 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	1.8 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	Duplicate of OU2SG-19 4/24/2009	OU2SG-19 5/13/2009	OU2SG-19 6/16/2009	OU2SG-19 7/13/2009	Duplicate of OU2SG-19 7/13/2009	OU2SG-19 8/10/2009	OU2SG-19 9/22/2009	OU2SG-19 10/14/2009	OU2SG-19 11/17/2009	Duplicate of: OU2SG-19 11/17/2009	OU2SG-19 12/28/2009	OU2SG-20 3/18/2009	OU2SG-20A 3/31/2009	OU2SG-20P 3/31/2009	OU2SG-20A 4/1/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	2.0 U	0.98 U
Heptane, n-	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	7.9 J	0.97	0.57 J	0.44 J
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	11 U	2.1 U	2.1 U	5.3 U	5.3 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.70 U	0.70 U	0.70 U	3.5 U	0.70 U	0.70 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	11	1.5	1.5	1.3 J
Hexanone, 2-	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.82 U	2.0 U	4.1 U	2.0 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 UJ	4.8 U	0.97 U	0.97 U	2.4 U	2.4 U	1.9 U	1.9 U	1.9 U	4.0	3.4	2.6	2.2 J
Indene	0.95 U	0.95 U	0.95 UJ	4.8 U	0.95 U	0.95 U	2.4 U	2.4 U	1.9 U	1.9 U	1.9 U	0.95 U	0.95 U	1.9 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	1.4 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	1.6 U	0.82 U
Methylene chloride	2.4 U	1.7 J	1.7 U	8.7 U	1.7 U	1.7 U	4.3 U	4.3 U	3.5 U	1.0 J	3.5 U	1.8 U	1.7 U	3.5 U	1.7 U
Methylnaphthalene, 1-	14 UJ	1.2 U	1.2 U	5.8 UJ	1.2 UJ	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	2.3 U	1.2 U	2.9 UJ	5.8 UJ	2.9 UJ
Methylnaphthalene, 2-	14 UJ	1.2 U	1.2 U	5.8 UJ	1.2 UJ	1.2 U	2.9 U	2.9 U	2.3 UJ	2.3 UJ	2.3 U	1.2 U	2.9 UJ	5.8 UJ	2.9 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	1.6 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	1.6 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	1.0 UJ	1.0 U	2.1 U	1.0 U
Nonane	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U	2.1 U	2.1 U	11	1.0 U	2.1 U	1.0 U
Octane, n-	0.93 U	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	31	0.74 J	0.56 J	0.32 J
Pentane	0.35 J	0.68	0.38 J	3.0 U	0.59 U	0.35 J	1.5 U	1.5 U	1.2 U	0.59 J	7.6	42	8.4	7.6	5.8 J
Propanol, 2-	0.63 U	1.2 U	1.2 U	1.8 J	1.2 U	1.2 U	5.6 U	3.0 U	2.5 U	2.5 U	2.5 U	1.2 UJ	1.2 U	2.5 U	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	4.3 U	0.85 U	0.85 U	2.1 U	2.1 U	1.7 U	1.7 U	1.7 U	0.98	0.85 U	1.7 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	0.61 U	3.0 U	0.61 U	0.61 U	1.5 U	1.5 U	1.2 U	1.2 U	1.2 U	0.53 J	0.61 U	1.2 U	0.15 J
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U	1.4 U	3.4 U	3.4 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	2.7 U	1.4 U
Tetrachloroethene	0.64 J	1.3 J	2.3	3.8 J	6.0	3.3	2.4 J	1.7 J	1.6 J	1.2 J	2.7 U	0.64 J	0.87 J	2.7 U	0.62 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	5.5 U	1.1 U	1.1 U	5.5 UJ	1.1 UJ	1.1 UJ	2.7 UJ	2.7 U	2.2 UJ	2.2 UJ	2.2 U	27	92 J	95	95 J
Thiophene	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	1.4 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	1.6 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.54 J	0.77 J	0.67 J	7.7 U	0.43 J	0.46 J	3.8 U	3.8 U	3.1 U	3.1 U	3.1 U	0.57 J	0.62 J	3.1 U	0.60 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	3.7 U	3.7 U	3.0 U	3.0 U	3.0 U	1.5 U	1.5 U	3.0 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	0.43 J	5.4 U	0.89 J	1.2	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	2.2 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	2.2 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	5.4 U	0.53 J	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	2.2 U	0.56 J	0.51 J	2.2 U	1.1 U
Trichlorofluoromethane	1.6	2.7	2.4	5.4 J	4.8	3.9	3.8	3.5	2.0 J	2.1 J	1.4 J	3.3	6.6	6.8	5.6 J
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	2.3	29	23	22 J
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	18	0.98 U	2.0 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	2.0 U	15	56	33	40 J
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	2.3 U	2.3 U	1.9 U	1.9 U	1.9 U	0.93 UJ	4.8 J	1.9 U	0.93 U
Undecane, n-	1.3 U	1.3 U	1.3 U	6.4 U	1.3 U	1.3 U	3.2 U	3.2 U	2.6 U	1.2 J	2.6 U	11	1.3 UJ	2.6 U	1.3 UJ
Vinyl bromide	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U	0.87 U	2.2 U	2.2 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	1.8 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	2.6 U	0.51 U	0.51 U	1.3 U	1.3 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U
Other (%)															
Carbon Dioxide	2.23	3.94	5.62	8.24	8.3	9.06	6.7	7.33	7.21	7.18	4.26	NA	0.773	1.12	3.5
Helium	0.0147	0.0193 U	0.0181	0.0209 U	0.18	0.0218 U	0.0176 U	0.00316 U	0.0165 U	0.0166 U	0.0167 U	0.585	0.078	0.0174 U	0.017

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-20P	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20
Sample Date:	4/1/2009	4/2/2009	4/3/2009	4/4/2009	4/5/2009	4/6/2009	4/10/2009	4/17/2009	4/24/2009	5/13/2009	6/16/2009	7/13/2009	8/10/2009	9/22/2009	10/14/2009	11/17/2009
BTEX (ug/m3)																
Benzene	0.77	1.4	0.84	2.9	2.6	1.1	1.3	0.56 J	0.34 J	0.64 U	0.72	0.87	0.26 J	1.6 U	1.6 U	1.3 U
Toluene	0.36 J	0.52 J	0.57 J	0.57 J	0.64 J	0.45 J	0.49 J	0.75 J	0.54 J	1.5	1.4	4.5	1.2	1.9 U	1.9 U	1.5 U
Ethylbenzene	0.38 J	0.49 J	0.44 J	0.66 J	0.61 J	0.48 J	0.43 J	0.28 J	0.87 U	0.87 U	0.87 U	0.69 J	0.87 U	2.2 U	2.2 U	1.7 U
Xylene, m,p-	1.7 U	1.7 U	0.49 J	1.7 U	1.7 U	0.69 J	0.69 J	1.1 J	1.7 U	0.43 J	1.7 U	1.7 J	1.7 U	4.3 U	4.3 U	3.5 U
Xylene, o-	0.69 J	0.84 J	0.83 J	1.1	1.1	0.82 J	0.56 J	0.45 J	0.87 U	0.87 U	0.87 U	0.78 J	0.87 U	2.2 U	2.2 U	1.7 U
Other VOCs (ug/m3)																
Acetaldehyde	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	4.5 UJ	4.5 UJ	4.5 UJ	6.0 U	15 J	15	4.7 U	4.5 U	9.0 U
Acetone	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	3.7 J	1.8 UJ	2.6 U	2.7 U	12 J	20	3.1 U	4.5 U	1.1 J
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 U	0.45 J	3.5	1.2 U	2.9 U	2.9 U	2.3 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.6 U	1.2 U
Benzo(b)thiophene	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	2.7 U	2.2 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	3.4 U	2.7 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	5.2 U	5.2 U	4.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.9 U	1.6 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	1.1 U	0.88 U
Butane	9.7	10	7.7	11	11	7.0	4.7	2.8	6.6	1.4	1.7	2.1	0.76	1.2 U	1.2 U	0.95 U
Butanone, 2-	0.48 J	0.55 J	0.28 J	0.95	0.50 J	0.38 J	0.52 J	0.52 J	0.59 U	0.59 U	0.43 J	2.4	0.71	1.5 U	1.5 U	1.2 U
Carbon disulfide	0.73 U	1.2	0.92 U	1.9	2.4	0.72 U	1.5 U	2.7	4.6	13	30	40 J	9.0	1.6 U	1.6 U	0.93 J
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	3.1 U	2.5 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.3 U	1.0 U
Chloroform	46	50	50	43	40	42	25	15	14	7.8	8.4	6.9	6.8	3.0	2.1 J	1.7 J
Chloromethane	0.26 J	0.33 J	0.34 J	0.29 J	0.27 J	0.25 J	0.23 J	0.21 J	0.67	0.41 U	0.16 J	0.43	0.17 J	1.0 U	1.0 U	0.83 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 J	3.5 U	3.5 U	2.8 U
Cyclohexane	0.21 J	0.25 J	0.32 J	0.59 J	0.58 J	0.58 J	0.34 J	0.31 J	0.23 J	0.69 U	0.69 U	0.23 J	0.69 U	1.7 U	1.7 U	1.4 U
Decane, n-	1.2 U	1.2 U	2.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 UJ	0.65 J	5.6	1.2 U	2.9 U	2.9 U	2.3 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	4.3 U	3.4 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.1 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U
Dichlorodifluoromethane	4.4	4.7	5.3	5.7	5.1	4.7	5.3	4.4	5.6	1.7	2.4	7.1	6.9	4.7	3.2	4.0
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U
Dichloroethene, cis-1,2-	0.29 J	0.56 J	0.45 J	1.3	1.5	0.67 J	1.2	1.1	1.3	0.52 J	0.41 J	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U
Dodecane, n-	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.9 J	1.4 UJ	1.2 J	0.94 J	5.4	0.63 J	3.5 U	3.5 U	0.97 J
Ethanol	0.71 J	1.2 J	1.0 J	7.5	0.62 J	1.7 J	0.56 J	0.78 J	55	1.9 U	2.1 U	6.1	1.5 J	4.7 U	4.7 U	3.8 U
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-20P	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20	OU2SG-20
Sample Date:	4/1/2009	4/2/2009	4/3/2009	4/4/2009	4/5/2009	4/6/2009	4/10/2009	4/17/2009	4/24/2009	5/13/2009	6/16/2009	7/13/2009	8/10/2009	9/22/2009	10/14/2009	11/17/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.37 J	0.82 U	2.6	0.90	1.3	0.45 J	0.20 J	0.32 J	0.82 U	0.82 U	0.82 U	0.42 J	0.82 U	2.0 U	2.0 U	1.6 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	5.3 U
Hexane, n-	0.74	0.68 J	0.81	0.92	0.74	0.67 J	0.70 U	0.70 U	0.21 J	0.18 J	0.70 U	0.74	0.70 U	1.8 U	1.8 U	1.4 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	2.0	2.4	2.5	3.4	3.2	2.4	0.92 J	0.97 U	0.97 U	0.97 U	0.97 UJ	0.30 J	0.97 U	2.4 U	2.4 U	1.9 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 UJ	0.95 U	0.95 U	2.4 U	2.4 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U
Methylene chloride	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	0.52 J	1.7 U	1.7 UJ	0.87 J	4.3 U	4.3 U	3.5 U
Methylnaphthalene, 1-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 UJ	1.2 U	1.2 U	0.83 J	1.2 U	2.9 U	2.9 U	2.3 U
Methylnaphthalene, 2-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 UJ	1.2 U	1.2 U	1.5 J	1.2 U	2.9 U	2.9 U	2.3 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	0.40 J	1.1	1.0 U	2.6 U	2.6 U	2.1 U
Nonane	1.0 U	1.0 U	0.79 J	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	2.6 U	2.6 U	2.1 U
Octane, n-	0.43 J	0.35 J	0.57 J	0.93 U	0.93 U	0.28 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.1	0.93 U	2.3 U	2.3 U	1.9 U
Pentane	3.7	3.8	2.7	4.6	4.6	2.8	1.9	1.1	1.8	0.50 J	0.56 J	2.2	0.27 J	1.5 U	1.5 U	1.2 U
Propanol, 2-	0.49 U	0.49 UJ	0.49 U	0.49 U	0.49 UJ	0.49 U	0.49 UJ	0.49 U	3.5	1.2 U	1.7 U	1.2 J	0.88 U	3.0 U	3.0 U	2.5 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.61 J	0.85 U	2.1 U	2.1 U	1.7 U
t-Butyl alcohol	0.22 J	0.20 J	0.21 J	0.22 J	0.27 J	0.21 J	0.15 J	0.61 U	0.61 U	0.21 J	0.61 U	0.32 J	0.61 U	1.5 U	1.5 U	1.2 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	3.4 U	2.7 U
Tetrachloroethene	0.68 J	0.79 J	0.89 J	1.0 J	1.1 J	0.95 J	1.2 J	0.92 J	1.2 J	2.2	4.3	3.7	3.9	2.2 J	1.2 J	0.95 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	100 J	130 J	140 J	320 J	230 J	190 J	110 J	11 J	4.8 J	0.49 J	0.47 J	0.69 J	1.1 UJ	2.7 UJ	2.7 UJ	2.2 UJ
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.72 J	0.75 J	0.83 J	0.85 J	0.84 J	0.84 J	0.84 J	0.81 J	1.0 J	0.77 J	0.68 J	0.57 J	0.46 J	3.8 U	3.8 U	3.1 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.7 U	3.0 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37 J	0.42 J	2.7 U	2.7 U	2.2 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	2.2 U
Trichloroethene	1.1 U	1.1 U	1.1 U	0.42 J	0.48 J	1.1 U	0.43 J	0.84 J	0.72 J	0.81 J	0.70 J	0.64 J	0.48 J	2.7 U	2.7 U	2.2 U
Trichlorofluoromethane	5.4	6.0	8.0	7.7	8.2	8.5	8.4	7.6	10	6.3	9.5	7.7	6.0	3.6	2.5 J	2.5
Trimethylbenzene, 1,2,3-	19	21	23	26	23	22	11	0.56 J	0.98 U	0.98 U	0.98 U	0.50 J	0.98 U	2.5 U	2.5 U	2.0 U
Trimethylbenzene, 1,2,4-	0.35 J	0.35 J	0.48 J	0.46 J	0.98 U	0.98 U	0.98 U	0.30 J	0.98 U	0.98 U	0.31 J	0.86 J	0.98 U	2.5 U	2.5 U	2.0 U
Trimethylbenzene, 1,3,5-	22	33	30	44	42	30	12	0.43 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	2.3 J	3.0 J	3.4 J	2.4 J	2.5 J	3.9	4.7	0.79 J	0.93 U	0.93 U	0.93 U	2.3 U	2.3 U	1.9 U
Undecane, n-	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 U	1.1 J	1.3 U	3.2 U	3.2 U	2.6 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	2.2 U	1.8 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.3 U	1.0 U
Other (%)																
Carbon Dioxide	4.17	4.33	5.09	10.5	5.3	8.73	5.42	5.24	6.07	5.4	5.9	5.1	4.09	2.48	2.11	1.46
Helium	0.0165	0.0209	0.0192	0.0197	0.0191	0.0164	0.0182	0.0189	0.0186	0.0217 U	0.0194	0.0201 U	0.0263 U	0.0166 U	0.00317 U	0.0159 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-21	OU2SG-21	OU2SG-21	OU2SG-21	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22A	OU2SG-22P	OU2SG-22A	OU2SG-22P	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22
Sample Date:	3/19/2009	6/16/2009	9/22/2009	12/28/2009	3/27/2008	6/19/2008	9/23/2008	12/30/2008	1/20/2009	1/20/2009	1/21/2009	1/21/2009	1/22/2009	1/23/2009	1/25/2009	1/26/2009
BTEX (ug/m3)																
Benzene	0.64 U	0.64 U	1.6 U	1.3 U	1.0	0.64 UJ	0.83	0.64 U	0.72	0.49 J	0.64 U	0.64 U	0.64 U	0.26 J	0.43 J	0.72
Toluene	0.46 J	4.6	2.5	0.75 J	1.7	4.1	620	1.4	190	30	0.69 J	0.52 J	5.1	7.2	13	14
Ethylbenzene	0.87 U	0.34 J	0.54 J	1.7 U	0.42 J	0.22 J	8.6	0.87 U	2.2	1	0.87 U	0.87 U	0.87 U	0.22 J	0.24 J	0.26 J
Xylene, m,p-	0.28 J	0.81 J	1.7 J	3.5 U	1.4 J	0.65 J	32	0.86 J	7.6	3.6	0.33 J	0.35 J	0.54 J	0.70 J	0.90 J	0.84 J
Xylene, o-	0.87 U	0.35 J	2.2 U	1.7 U	0.54 J	0.26 J	14	0.30 J	2.6	1.5	0.87 U	0.87 U	0.87 U	0.27 J	0.34 J	0.31 J
Other VOCs (ug/m3)																
Acetaldehyde	1.8 U	10 J	4.5 U	9.0 U	4.5 U	6.0	1.8 UJ	3.6 J	1.8 UJ	1.8 UJ	3.7 U	1.8 UJ	1.8 UJ	2.1 J	1.8 UJ	1.8 UJ
Acetone	2.4 U	6.3 U	3.3 U	1.6 J	4.9 U	3.5	0.47 UJ	3.4 U	32	14	2.6 U	1.6 U	2.9 U	3.4 U	7.6	14
Acrolein (propenal)	0.46 U	2.8 J	2.9 U	2.3 UJ	1.2 U	0.23 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	0.63 U	0.63 U	1.6 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U	1.1 UJ	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ
Bromodichloromethane	1.3 U	1.3 U	3.4 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	5.2 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	1.9 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	1.1 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.19 J	0.32 J	1.2 U	0.95 U	0.50	0.48 U	4.2	0.48 U	0.53	1.7	0.48 U	0.48 U	0.48 U	0.48 U	1.9	3.9
Butanone, 2-	0.59 U	1.7	1.5 U	1.2 U	0.73 J	0.85	0.50 J	0.59 U	4.3	2.8	0.97	0.59 U	0.59 U	0.59 U	0.83	0.80
Carbon disulfide	0.62 U	6.4	1.6 U	1.4	0.36 J	0.84 U	16	0.18 J	3.0	0.62 U	0.62 U	0.62 U	0.62 U	2.0	0.68 U	0.62 U
Carbon tetrachloride	1.3 U	1.3 U	3.1 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.56 J	2.0	2.4	2.3	4.5	4.5	3.6
Chlorobenzene	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	1.3 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	2.3	1.1	2.2 J	0.98 J	1.0	18	18	2.1	1.2	1.1	1.3	1.5	1.3	1.5	1.4	1.3
Chloromethane	0.41 U	0.16 J	1.0 U	0.83 U	0.44	0.25 J	0.41 U	0.17 J	0.41 U	0.28 J	0.25 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	2.6 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	3.5 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	0.69 U	0.69 U	1.7 U	1.4 UJ	0.69 U	0.69 U	84	0.69 U	18	3.8	0.90	0.78	0.72	2.2	3.3	5.8
Decane, n-	1.2 U	2.7	2.9 U	2.3 U	3.0	11	1.3	1.2	2.4	5.1	0.58 J	0.72 J	0.55 J	1.3	0.48 J	0.42 J
Dibromochloromethane	1.7 U	1.7 U	4.3 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	3.8 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	3.0 U	2.4 U	1.2 U	1.2 U	0.60 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	0.82 J	3.0 U	2.4 U	0.74 J	1.3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	0.70 J	3.0 U	2.4 U	1.2 U	1.2 U	2.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	3.1	2.3	5.4	3.7	2.0	2.5	2.5	2.5	2.9	2.9	2.4	2.4	2.2	1.7	1.7	1.5
Dichloroethane, 1,1-	0.81 U	0.81 U	2.0 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	2.0 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.32 J	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	2.3 U	1.8 UJ	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	2.3 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 UJ	1.8 U	1.4 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	0.68 J	5.6	1.2 J	2.8 U	1.8	11 J	3.2	1.8 J	0.79 J	3.2	1.4 U	1.7	1.4 U	2.7	0.76 J	0.61 J
Ethanol	2.9	6.0	2.2 J	3.0 J	9.0	2.7	1.4 J	7.6	23	12	3.8	3.0	3.6	2.2	2.4	3.8
Ethylthiophene, 2-	0.92 U	0.92 U	2.3 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-21 3/19/2009	OU2SG-21 6/16/2009	OU2SG-21 9/22/2009	OU2SG-21 12/28/2009	OU2SG-22 3/27/2008	OU2SG-22 6/19/2008	OU2SG-22 9/23/2008	OU2SG-22 12/30/2008	OU2SG-22A 1/20/2009	OU2SG-22P 1/20/2009	OU2SG-22A 1/21/2009	OU2SG-22P 1/21/2009	OU2SG-22 1/22/2009	OU2SG-22 1/23/2009	OU2SG-22 1/25/2009	OU2SG-22 1/26/2009
Ethyltoluene, p-	0.98 U	0.98 U	2.5 U	2.0 U	0.98 U	0.29 J	0.88 J	0.98 U	0.45 J	0.3 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	0.82 U	2.0 U	1.6 U	0.46 J	0.82 U	0.74 J	0.82 U	1.1	0.65 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	5.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.70 U	0.21 J	1.8 U	1.4 U	0.28 J	0.70 UJ	14	0.70 U	2.0	0.84	0.70 U	0.70 U	0.70 U	0.33 J	0.99 J	4.0 J
Hexanone, 2-	0.82 U	0.27 J	2.0 U	1.6 U	0.82 U	0.45 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indane	0.97 U	0.29 J	2.4 U	1.9 U	0.97 U	0.97 U	0.63 J	0.97 U	0.32 J	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	2.4 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	1.8 U	1.4 U	0.72 U	0.72 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.36 J	2.0 U	1.6 UJ	0.82 U	0.82 U	0.82 U	0.77 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	1.7 U	4.3 U	1.2 J	0.28 J	1.7 U	0.69 U	1.7 U	0.69 U	0.86 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Methylnaphthalene, 1-	1.2 U	1.2 U	2.9 U	2.3 U	1.2 U	2.9 UJ	0.29 J	R	5.8 UJ	5.8 UJ	5.8 U	5.8 U	5.8 U	0.54 J	5.8 UJ	5.8 UJ
Methylnaphthalene, 2-	1.2 U	0.41 J	2.9 U	2.3 U	1.2 U	2.9 UJ	0.58 J	14 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	1.4 J	5.8 U	5.8 U
Methylthiophene, 2-	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	2.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	0.85 J	2.6 U	2.1 U	1.0 U	0.42 J	1.9	1.0 UJ	0.30 J	1 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U
Nonane	1.0 U	0.52 J	2.6 U	2.1 U	0.30 J	1.0 U	0.31 J	1.0 U	2.8	1.5	1.0 U	1.0 U	1.0 U	0.32 J	1.0 U	1.0 U
Octane, n-	0.93 U	0.64 J	2.3 U	1.9 U	3.2	11	0.42 J	0.93 U	2.4	0.84 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Pentane	0.59 U	1.1	1.5 U	1.2 U	0.51 J	0.59 U	0.56 J	0.59 U	0.59 J	2.5	0.59 U	0.59 U	0.59 U	0.59 U	3.9	9.3
Propanol, 2-	1.2 U	1.9 U	3.0 U	2.5 U	1.6	0.59 J	0.49 U	1.1 J	3.7	2.6	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	3.0	2.1 U	1.7 U	0.85 U	0.30 J	3.6	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.15 J	0.58 J	1.5 U	1.2 U	0.39 J	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	3.4 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	0.49 J	3.4 U	2.7 U	1.4	5.4	14	1.0 J	1.8	0.79 J	0.56 J	0.77 J	0.60 J	0.75 J	0.79 J	0.76 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	0.29 J	2.7 UJ	2.2 U	1.1 U	0.66 J	3.0	1.1 U	0.57 J	1.1 U	1.1 U	1.1 U	1.1 U	1.6 J	1.1 U	1.1 U
Thiophene	0.69 U	0.69 U	1.7 U	1.4 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	2.0 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.49 J	0.78 J	3.8 U	3.1 U	1.5 U	0.61 J	0.54 J	0.70 J	0.60 J	0.49 J	1.5 U	0.41 J	0.46 J	1.5 U	1.5 U	1.5 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	3.7 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	0.41 J	1.4	2.9	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	2.7 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	0.38 J	1.1 U	2.7 U	5.5	1.1 U	1.1 U	1.1 U	0.37 J	1.1 U	0.78 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	2.8	6.9	7.4	3.1	1.1 J	1.4	1.2	2.4	1.8	1.6	1.6	1.5	1.4	1.1 J	1.1 J	0.97 J
Trimethylbenzene, 1,2,3-	0.98 U	0.42 J	2.5 U	2.0 U	0.72 J	0.74 J	1.2	0.31 J	0.48 J	0.35 J	0.98 U	0.98 U	0.98 U	0.37 J	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.92 J	2.5 U	2.0 U	0.98 U	0.98 U	3.3	0.98 U	1.2	1	0.98 U	0.98 U	0.98 U	0.73 J	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	2.5 U	2.0 U	0.36 J	0.49 J	0.98	0.98 U	0.61 J	0.39 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	2.3 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	0.34 J	2.3	3.2 U	2.6 U	1.0 J	1.2 J	1.3 UJ	1.3 U	1.2 J	8.9	1.3 U	1.2 J	0.45 J	2.9	0.38 J	1.0 J
Vinyl bromide	0.87 U	0.87 U	2.2 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	1.3 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	2.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.025	0.0199	0.0176 U	0.0168 U	NA	0.0185 U	0.0182 U	0.0171	0.0161	0.0161	0.016	0.022	0.016	0.0163	0.0152	0.0176

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-22	OU2SG-23	OU2SG-23
Sample Date:	1/30/2009	2/5/2009	2/13/2009	2/23/2009	3/25/2009	4/14/2009	5/11/2009	6/16/2009	7/30/2009	8/26/2009	9/23/2009	10/19/2009	11/18/2009	12/28/2009	3/27/2008	6/19/2008
BTEX (ug/m3)																
Benzene	1.6	1.6	2.1 J	0.86 J	0.53 J	0.56 J	0.98	1.2 U	2.5 J	1.6 J	1.6 U	1.6 U	1.3 U	0.38 J	0.38 J	0.64 UJ
Toluene	21	43	64 J	44	140	180	250	260	710 J	370	39	25	25	32	1.4	4.2
Ethylbenzene	0.66 J	1.0	2.8	4.3 U	2.3 J	3.2	3.8	5.0	16 J	9.1	4.2	1.4 J	1.0 J	1.5 J	0.38 J	0.87 U
Xylene, m,p-	1.7 J	2.5	5.6	3.2 J	8.5	12	9.4	17	52 J	27	13	4.4	3.6	4.1	1.3 J	0.35 J
Xylene, o-	0.60 J	1.1	3.0	1.2 J	3.3	5.0	3.4	7.2	25 J	14	6.7	2.4	1.9	2.1	0.49 J	0.87 U
Other VOCs (ug/m3)																
Acetaldehyde	1.8 UJ	1.8 UJ	4.5 UJ	9.0 UJ	1.8 UJ	3.6 UJ	4.5 UJ	5.1 U	22 J	22 U	8.2 U	4.5 U	9.0 U	9.0 U	4.5 U	7.6 J
Acetone	1.2 U	1.2 UJ	1.2 UJ	5.9 UJ	1.8 UJ	1.8 UJ	1.8 UJ	5.2 U	7.0 J	13 UJ	3.6 U	4.5 U	1.2 J	3.6 UJ	7.7 J	2.8 J
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	2.3 U	0.46 U	0.46 U	1.2 U	0.32 J	0.50 J	5.7 U	2.9 U	2.9 U	2.3 U	2.3 U	1.2 U	0.18 J
Allyl chloride	0.63 U	0.63 U	0.63 U	3.1 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	3.1 U	1.6 U	1.6 U	1.2 U	1.2 U	0.63 U	0.63 U
Benzothiophene	1.1 U	1.1 U	1.1 U	14 U	2.7 U	14 UJ	1.1 U	1.3	1.1 UJ	5.5 UJ	2.7 U	2.7 U	2.2 UJ	2.2 U	1.1 U	1.1 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	3.4 U	3.4 U	2.7 U	2.7 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U	5.2 U	5.2 U	4.1 U	4.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	3.9 U	1.9 U	1.9 U	1.6 U	1.6 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 UJ	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	2.2 U	1.1 U	1.1 U	0.88 U	0.88 U	0.44 U	0.44 U
Butane	24	18	25	20 J	8.1	12	27	0.75	0.52 J	0.95 J	1.2 U	1.2 U	0.95 U	0.43 J	0.48 U	0.48 U
Butanone, 2-	1.3	1.7	2.2	3.0 U	0.59 U	0.59 U	0.38 J	0.47 J	1.1 J	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U	1.4	0.44 J
Carbon disulfide	0.99	0.65	0.87 J	1.3 J	1.5	2.8	6.0	7.4	16 J	13	5.4	2.6	2.7	2.5	0.38 J	0.62 U
Carbon tetrachloride	2.6	1.7	1.6	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.3 U	3.1 U	3.1 U	2.5 U	2.5 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	2.6 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U	0.53 U	0.53 U
Chloroform	1.3	1.2	2.0	1.4 J	1.6	2.0	3.1	8.4	9.8 J	4.6 J	7.1	10	8.3	2.0	0.34 J	1.4
Chloromethane	0.41 U	0.41 U	0.41 U	2.1 U	0.41 U	0.41 U	0.14 J	0.41 U	0.43 J	2.1 U	1.0 U	1.0 U	0.83 U	0.83 U	0.41 U	0.12 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	3.5 U	3.5 U	2.8 U	2.8 U	1.4 U	1.4 U
Cyclohexane	30	28	48	44	40	45	64	28	100 J	55	11	10	7.6	14 J	0.69 U	0.34 J
Decane, n-	0.63 J	0.74 J	2.8	5.8 U	2.4	3.5	1.2 U	2.4	4.8 J	5.8 U	1.0 J	2.9 U	2.3 U	1.0 J	2.0	7.6
Dibromochloromethane	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	4.3 U	4.3 U	3.4 U	3.4 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.1 U	3.1 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	0.41 J	1.2 J	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	0.54 J	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U	0.48 J	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	0.51 J	1.2 U	1.2	3.8 J	2.1 J	1.4 J	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U
Dichlorodifluoromethane	1.2	1.0	1.1	4.9 U	1.5	0.95 J	1.0	0.98 J	0.74 J	4.9 U	0.86 J	1.1 J	0.99 J	0.79 J	2.1	2.5
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	4.0 U	0.81 UJ	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	1.8	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 U	0.72 U	0.72 U
Dodecane, n-	0.47 J	0.46 J	1.4 J	17 U	0.65 J	1.4 J	1.4 U	0.60 J	2.5 J	1.7 J	1.2 J	3.5 U	2.8 U	2.5 J	2.9	26 J
Ethanol	4.2	8.2	9.2	24 UJ	3.0 J	3.1	5.1	3.7 U	4.0 J	9.4 UJ	1.2 J	4.7 U	3.8 U	3.8 U	4.6 J	1.4 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-22 1/30/2009	OU2SG-22 2/5/2009	OU2SG-22 2/13/2009	OU2SG-22 2/23/2009	OU2SG-22 3/25/2009	OU2SG-22 4/14/2009	OU2SG-22 5/11/2009	OU2SG-22 6/16/2009	OU2SG-22 7/30/2009	OU2SG-22 8/26/2009	OU2SG-22 9/23/2009	OU2SG-22 10/19/2009	OU2SG-22 11/18/2009	OU2SG-22 12/28/2009	OU2SG-23 3/27/2008	OU2SG-23 6/19/2008
Ethyltoluene, p-	0.98 U	0.98 U	0.54 J	4.9 U	0.56 J	1.1	0.37 J	1.8	5.8 J	2.7 J	1.6 J	2.5 U	2.0 U	2.0 U	0.98 U	0.98 U
Heptane, n-	18	5.5	5.0 J	4.1 U	2.7	0.67 J	0.74 J	0.43 J	1.4 J	4.1 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	11 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	11 U	5.3 U	5.3 U	4.3 U	4.3 U	2.1 U	2.1 U
Hexane, n-	41	21	24 J	11	3.3	3.2	4.0	2.5	7.4 J	4.2	1.8 U	1.8 U	0.42 J	0.77 J	0.45 J	0.28 J
Hexanone, 2-	0.82 U	0.82 U	0.82 U	10 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	1.6 U	1.6 U	1.1	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.36 J	4.8 U	0.43 J	0.89 J	0.29 J	12	35 J	16	9.8	2.5	2.2	2.0	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	2.4 U	2.4 U	1.9 U	1.9 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 U	0.72 U	0.72 UJ
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 UJ	2.0 U	2.0 U	1.6 U	1.6 U	1.6	0.82 U
Methylene chloride	0.69 U	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	9.1	1.7 U	0.52 J	2.6 J	4.3 U	4.3 U	3.5 U	3.4 U	0.34 J	1.7 UJ
Methylnaphthalene, 1-	5.8 U	1.2 U	1.2 UJ	14 U	2.9 U	5.8 U	1.2 U	2.8 J	3.8 J	4.4 J	1.7 J	2.9 U	2.3 U	2.3 U	1.2 U	2.9 UJ
Methylnaphthalene, 2-	5.8 UJ	1.2 U	1.2 U	14 U	2.9 U	5.8 U	0.37 J	5.7	8.2 J	8.1 J	2.5 J	2.9 U	0.93 J	2.3 U	1.2 U	2.9 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 UJ	1.0 U	32	53 J	19	3.1	1.2 J	1.5 J	0.73 J	1.0 U	0.37 J
Nonane	1.0 U	1.0 U	2.4	5.2 U	2.8	3.8	0.80 J	2.3	2.2 J	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U
Octane, n-	0.93 U	0.93 U	0.93 U	4.7 U	1.2	1.6	1.1	0.95	0.98 J	4.7 U	2.3 U	2.3 U	1.9 U	1.9 U	1.6	0.75 J
Pentane	48	22	31	18	6.1	10	18	0.82	0.86 J	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U	0.20 J	0.59 U
Propanol, 2-	1.2 UJ	0.49 UJ	0.49 UJ	6.1 UJ	1.2 U	0.62	1.2 U	1.2 U	1.2 U	6.1 U	3.0 U	3.0 U	2.5 U	2.5 U	0.96 J	1.2 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.23 J	0.28 J	1.3	4.3 U	1.2	1.9	1.1	2.6	11 J	5.8	1.9 J	0.74 J	0.51 J	0.60 J	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	1.5 U	3.0 U	0.61 U	0.61 U	0.39 J	0.48 J	0.61 U	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U	0.77	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U	3.4 U	3.4 U	2.7 U	2.7 U	1.4 U	1.4 U
Tetrachloroethene	0.91 J	1.2 J	2.5	6.8 U	2.2	2.8	4.5	5.3	11 J	8.1	4.9	2.5 J	2.3 J	1.5 J	0.88 J	1.4
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	0.54 J	14 UJ	0.55 J	2.5 J	0.67 J	7.0 J	26 J	9.0 J	11 J	2.5 J	2.4 J	1.6 J	0.45 J	0.27 J
Thiophene	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.4 U	1.4 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.1 U	3.1 U	0.48 J	0.54 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	3.7 U	3.7 U	3.0 U	3.0 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	5.4 U	0.48 J	0.57 J	0.92 J	0.31 J	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	0.96 J	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U
Trichlorofluoromethane	0.77 J	0.70 J	0.92 J	5.6 U	0.78 J	0.67 J	2.9	2.7	3.5 J	3.4 J	1.5 J	0.98 J	0.90 J	0.56 J	1.0 J	1.3
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.71 J	4.9 U	0.80 J	1.8	0.27 J	5.3	18 J	7.6	5.6	1.5 J	1.3 J	1.2 J	0.98	0.49 J
Trimethylbenzene, 1,2,4-	0.34 J	0.51 J	2.2	4.9 U	2.2	4.2	0.62 J	7.3	23 J	9.1	6.8	1.8 J	1.5 J	1.3 J	0.32 J	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.72 J	4.9 U	0.75 J	1.4	0.33 J	2.1	6.9 J	3.4 J	2.1 J	2.5 U	2.0 U	0.49 J	0.38 J	0.29 J
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	4.7 UJ	0.93 UJ	0.93 UJ	0.93 UJ	0.93 UJ	0.93 UJ	4.7 U	2.3 U	2.3 U	1.9 U	1.9 U	0.37 J	0.93 U
Undecane, n-	1.3 U	1.3 U	0.92 J	6.4 U	0.66 J	1.4	1.3 U	0.92 J	4.9 J	6.4 U	3.2 U	3.2 U	0.77 J	4.7	0.89 J	0.57 J
Vinyl bromide	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	4.4 U	2.2 U	2.2 U	1.8 U	1.8 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	1.28	2.66	2.23	3.52	2.42	2.04	1.77	1.8	1.2	NA	NA
Helium	0.0172	0.0158	0.0184	0.0218	0.026	0.0221	0.0164 U	0.0204	0.018 U	0.0162 U	0.0155 U	0.00315 U	0.0152 U	0.0194 U	NA	0.0157 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	Duplicate of OU2SG-23 6/19/2008	OU2SG-23 9/23/2009	OU2SG-23 12/28/2009	Duplicate of: OU2SG-23 12/28/2009	OU2SG-24 4/3/2008	OU2SG-24 6/25/2008	Duplicate of OU2SG-24 6/25/2008	OU2SG-24 8/13/2008	OU2SG-24A 9/24/2008	OU2SG-24 9/24/2008	OU2SG-24 12/30/2008	OU2SG-24A 2/16/2009	OU2SG-24P 2/16/2009	OU2SG-24A 2/17/2009	OU2SG-24P 2/17/2009	OU2SG-24 2/18/2009
BTEX (ug/m3)																
Benzene	0.64 UJ	1.3 U	1.3 U	1.3 U	0.21 J	0.19 J	0.64 UJ	0.16 J	0.64 U	0.64 U	0.16 J	0.40 J	0.18 J	0.64 U	0.64 U	0.33 J
Toluene	4.2	0.75 J	1.5 U	1.5 U	1.6	24	22	0.64 J	0.38 J	0.26 J	0.55 J	1.2 J	0.52 J	0.61 J	0.56 J	1.3
Ethylbenzene	0.87 U	1.7 U	1.7 U	1.7 U	0.26 J	0.26 J	0.39 J	0.87 U	0.87 U	0.87 U	0.87 U	0.25 J	0.87 U	0.87 U	0.87 U	0.28 J
Xylene, m,p-	0.43 J	3.5 U	3.5 U	3.5 U	0.64 J	0.69 J	1.0 J	0.35 J	0.30 J	1.7 U	0.33 J	0.92 J	0.52 J	0.49 J	0.50 J	0.74 J
Xylene, o-	0.87 U	1.7 U	1.7 U	1.7 U	0.32 J	0.3 J	0.48 J	0.87 U	0.87 U	0.87 U	0.87 U	0.37 J	0.31 J	0.25 J	0.30 J	0.36 J
Other VOCs (ug/m3)																
Acetaldehyde	5.3 J	6.7 J	9.0 U	9.0 U	4.5 U	15	12	22 J	1.8 UJ	5.7 J	4.4 J	3.4 U	4.5 U	1.8 UJ	1.8 UJ	1.8 UJ
Acetone	4.8 J	4.8 U	3.6 UJ	8.0 J	1.9 U	4.8 U	6.2	7.0 J	3.4 J	2.5	1.9 U	3.2 U	2.0 U	1.2 UJ	1.8 U	1.2 UJ
Acrolein (propenal)	0.18 J	2.3 U	2.3 UJ	2.3 UJ	1.2 U	0.39 J	0.34 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	0.63 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 UJ	2.2 U	2.2 U	2.2 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 UJ	2.7 UJ	2.7 UJ
Bromodichloromethane	1.3 U	2.7 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	0.94 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U
Butane	0.14 J	0.95 U	0.95 U	0.95 U	0.18 J	0.48 U	0.48 U	0.74	2.5	0.48 U	0.48 U	0.75	0.59 U	1.0	0.98	1.8
Butanone, 2-	0.59	0.83 J	1.2 U	1.2 U	0.66 J	0.88	1.0	1.7	1.1	0.93	0.59 U	0.77	0.59 U	0.34 J	0.40 J	0.59 U
Carbon disulfide	0.81 U	1.2 U	1.2 U	1.2 U	0.51 J	1.1 U	0.75 U	0.44 U	0.25 J	0.18 J	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Carbon tetrachloride	1.3 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	2.2	2.3	0.59 J	0.59 J	0.36 J	2.4	2.3	6.7	7.5	6.9	1.5	0.88 J	0.82 J	0.98 U	0.98 U	0.98 U
Chloromethane	0.27 J	0.83 U	0.83 U	0.83 U	0.14 J	0.21 J	0.14 J	0.52	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.14 J	0.41 U	0.41 U
Chlorotoluene, 2-	1.0 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	0.28 J	1.4 U	1.4 UJ	1.4 UJ	0.28 J	1.1	1.1	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.24 J	0.19 J	1.0
Decane, n-	7.3	2.3 U	2.3 U	2.3 U	1.7	4.9	4.3	18	18	16	1.2	1.9	2.8	1.4	2.1	1.3
Dibromochloromethane	1.7 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	2.4 U	2.4 U	2.4 U	0.59 J	1.3	1.0 J	1.1 J	0.43 J	0.31 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	3.3	2.7	2.7	2.7	2.3	2.5	2.5	2.7	3.0	2.8	3.1	2.4	2.4	2.3	2.2	2.6
Dichloroethane, 1,1-	0.81 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	1.8 U	1.8 UJ	1.8 UJ	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	1.4 U	1.4 UJ	1.4 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Decadecane, n-	24 J	0.84 J	2.8 U	2.8 U	1.0 J	11 J	10 J	8.7	6.6	7.4	1.4 J	1.7 J	9.5 J	0.56 J	1.4 J	3.5 U
Ethanol	1.8 J	3.8 U	3.8 U	3.8 U	6.2	4.8	4.0	11	5.9	3.8	6.0	5.3	6.4	0.93 J	1.2 J	0.85 J
Ethylthiophene, 2-	0.92 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
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Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	Duplicate of OU2SG-23 6/19/2008	OU2SG-23 9/23/2009	OU2SG-23 12/28/2009	Duplicate of: OU2SG-23 12/28/2009	OU2SG-24 4/3/2008	OU2SG-24 6/25/2008	Duplicate of OU2SG-24 6/25/2008	OU2SG-24 8/13/2008	OU2SG-24A 9/24/2008	OU2SG-24 9/24/2008	OU2SG-24 12/30/2008	OU2SG-24A 2/16/2009	OU2SG-24P 2/16/2009	OU2SG-24A 2/17/2009	OU2SG-24P 2/17/2009	OU2SG-24 2/18/2009
Ethyltoluene, p-	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.25 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	1.6 U	1.6 U	1.6 U	0.82 UJ	0.82 U	0.82 U	0.57 J	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 UJ	0.82 U	0.26 J	0.80 J
Hexachlorobutadiene	2.1 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 UJ	2.1 UJ
Hexane, n-	0.42 J	1.4 U	1.4 U	1.4 U	0.78	2.8 J	2.2 J	0.70 U	0.70 U	0.70 U	0.70 U	0.70 UJ	0.70 UJ	0.70 U	0.70 U	0.62 J
Hexanone, 2-	0.82 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	2.0 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	1.9 U	1.9 U	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	1.9 U	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 UJ	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.74 J	1.6 UJ	1.6 UJ	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	15 J	3.5 U	0.97 J	1.1 J	1.7 U	2.3 U	1.7 U	0.69 UJ	0.69 U	0.83 U	1.7 U	0.69 U	0.69 U	1.7 U	1.7 U	1.7 U
Methylnaphthalene, 1-	2.9 UJ	2.3 UJ	2.3 U	2.3 U	1.2 UJ	2.9 U	2.9 U	1.2 U	1.2 UJ	1.2 UJ	R	1.2 UJ	1.2 UJ	R	R	R
Methylnaphthalene, 2-	2.9 UJ	2.3 U	2.3 U	2.3 U	1.2 UJ	2.9 U	2.9 U	1.2 U	1.2 U	1.2 U	14 UJ	1.2 U	1.2 U	2.9 UJ	2.9 UJ	2.9 UJ
Methylthiophene, 2-	0.80 U	1.6 U	1.6 U	1.6 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	1.6 U	1.6 U	1.6 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	0.26 J	2.1 U	2.1 U	2.1 U	1.0 U	0.31 J	0.42 J	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U
Nonane	1.0 U	2.1 U	2.1 U	2.1 U	1.0 U	1 U	1.0 U	0.42 J	0.32 J	1.0 U	0.29 J	0.62 J	0.49 J	0.95 J	1.0 J	0.86 J
Octane, n-	0.70 J	1.9 U	1.9 U	1.9 U	0.97	1.6	1.5	80	42	26	0.93 U	0.93 J	0.42 J	0.93 U	0.29 J	1.4
Pentane	0.59 U	1.2 U	1.2 U	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.90	0.59 U	0.30 J	0.29 J	0.72
Propanol, 2-	1.2 J	1.4 J	2.5 U	2.5	1.0 J	1.2 UJ	1.2 UJ	0.66 U	0.49 U	0.49 U	0.85 UJ	1.3 U	0.77 U	1.2 UJ	1.2 U	1.2 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	1.7 U	1.7 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	0.36 J	1.2 U	1.2 U	0.36 J	1	0.88	0.61 UJ	0.61 U	0.61 U	0.61 U	1.5 U	1.5 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	2.2	2.7 U	2.7 U	2.7 U	3.3	4.1	3.5	1.0 J	1.6	1.4 J	0.39 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	0.33 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	0.65 J	0.32 J
Thiophene	0.69 U	1.4 U	1.4 UJ	1.4 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.69 J	3.1 U	3.1 U	3.1 U	0.71 J	0.54 J	0.46 J	0.61 J	0.66 J	0.64 J	0.80 J	0.63 J	0.66 J	1.5 U	0.41 J	1.3 J
Trichlorobenzene, 1,2,4-	1.5 U	3.0 U	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.6	1.6 J	1.2 J	1.4 J	1.3	1.5	1.5	1.5	1.6	1.6	1.9	1.4	1.4	1.4	1.2	1.4
Trimethylbenzene, 1,2,3-	0.44 J	2.0 U	2.0 U	2.0 U	0.38 J	0.49 J	0.44 J	0.98 U	0.98 U	0.98 U	0.28 J	0.98 U	0.98 U	0.32 J	0.72 J	0.43 J
Trimethylbenzene, 1,2,4-	0.98 U	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.98 U	0.34 J	0.32 J	0.27 J	0.98 U	0.30 J	0.42 J	0.46 J	0.76 J	0.51 J
Trimethylbenzene, 1,3,5-	0.29 J	2.0 U	2.0 U	2.0 U	0.98 U	0.98 U	0.44 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.31 J	0.47 J	0.32 J
Trimethylpentane, 2,2,4-	0.93 U	1.9 U	1.9 U	1.9 U	0.93 UJ	0.93 U	0.93 U	0.56 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.5	1.9	2.3
Undecane, n-	0.38 J	2.6 U	2.6 U	2.6 U	0.49 J	5.7	7.2	1.3 U	1.3 UJ	1.3 UJ	0.61 J	1.6	1.5	0.44 J	0.53 J	0.65 J
Vinyl bromide	0.87 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.019 U	0.00364 U	0.0158 U	0.0158 U	NA	0.0174 U	0.0189 U	0.0145 U	0.0156 U	0.0157 U	0.101	0.316	0.017	0.0158	0.0169	0.017

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-24 2/19/2009	OU2SG-24 2/20/2009	OU2SG-24 2/21/2009	OU2SG-24 2/27/2009	OU2SG-24 3/5/2009	OU2SG-24 3/13/2009	OU2SG-24 4/13/2009	OU2SG-24 5/22/2009	OU2SG-24 6/25/2009	OU2SG-24 7/23/2009	OU2SG-24 8/18/2009	OU2SG-24 9/22/2009	OU2SG-24 10/30/2009	OU2SG-24 11/11/2009	OU2SG-24 12/28/2009	OU2SG-25 8/13/2008	OU2SG-25 9/24/2008	Duplicate of OU2SG-25 9/24/2008
BTEX (ug/m3)																		
Benzene	0.20 J	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	1.6 U	1.3 U	1.3 U	1.3 U	9.9	1.8	2.1 J
Toluene	1.2	0.51 J	0.33 J	0.48 J	0.57 J	0.50 J	0.53 J	3.1	0.75 U	0.23 J	0.19 J	1.9 U	1.5 U	1.5 U	1.5 U	30	9.9	8.4
Ethylbenzene	0.38 J	0.87 U	0.87 U	0.87 UJ	0.87 U	0.22 J	0.87 U	0.50 J	0.87 U	0.87 U	0.87 U	2.2 U	1.7 U	1.7 U	1.7 U	17 J	1.2	1.3 J
Xylene, m,p-	1.2 J	0.43 J	0.48 J	0.68 J	0.50 J	0.76 J	0.56 J	1.6 J	1.7 U	1.7 U	1.7 U	4.3 U	3.5 U	3.5 U	3.5 U	13 J	2.8	2.7 J
Xylene, o-	0.45 J	0.87 U	0.87 U	0.37 J	0.87 U	0.87 U	0.87 U	0.77 J	0.87 U	0.87 U	0.87 U	2.2 U	1.7 U	1.7 U	1.7 U	16	1.7	1.7 J
Other VOCs (ug/m3)																		
Acetaldehyde	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	3.6 U	4.5 UJ	4.5 U	3.3 J	11 J	5.2 U	9.0 U	9.0 U	9.0 U	18 U	1.8 UJ	9.0 UJ
Acetone	5.0 U	3.7 U	4.2 U	1.2 UJ	5.7 U	4.6 J	1.8 U	8.1 U	2.1 U	2.5 U	16 J	4.7 U	3.6 U	3.8	1.5 J	4.8 UJ	0.47 UJ	2.4 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 UJ	1.2 UJ	1.2 U	1.2 U	2.9 U	2.3 U	2.3 U	2.3 U	4.6 U	0.22 J	2.3 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.2 U	1.2 U	1.2 U	6.3 U	0.63 U	3.1 U
Benzo(b)thiophene	2.7 UJ	2.7 U	2.7 U	2.7 U	1.1 U	2.7 UJ	14 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	2.7 U	2.2 UJ	2.2 UJ	2.2 U	11 U	1.1 U	5.5 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	2.7 U	2.7 U	2.7 U	13 U	1.3 U	6.7 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	4.1 U	4.1 U	4.1 U	21 U	2.1 U	10 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.6 U	1.6 U	1.6 U	7.8 U	0.78 U	3.9 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	0.88 U	0.88 U	0.88 U	4.4 U	0.44 U	2.2 U
Butane	2.6	0.91	0.70 J	1.0	1.4	0.76	0.48 U	2.1	0.53	0.48 U	0.48 U	1.2 U	2.4	0.62 J	2.2	2200	1100 J	1600 J
Butanone, 2-	1.3	0.59 U	0.59 U	0.59 U	0.84	0.67	0.59 U	1.7	0.59 U	0.59 U	0.47 J	1.5 U	1.2 U	1.2 U	1.2 U	31	2.3	2.6 J
Carbon disulfide	0.62 U	0.62 U	0.31 J	0.62 U	0.62 U	1.8	0.62 U	0.62 U	0.21 J	0.62 U	0.62 UJ	1.6 U	1.2 U	1.2 U	1.1 J	5.6 U	0.82	1.4 J
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	2.5 U	2.5 U	2.5 U	13 U	1.3 U	6.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	1.8 U	1.8 U	9.2 U	0.92 U	4.6 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.0 U	1.0 U	1.0 U	5.3 U	0.53 U	2.6 U
Chloroform	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	1.4	0.98 U	7.1	6.2	4.9	3.4	2.2	2.0 U	0.98 J	9.8 U	0.98 U	4.9 U
Chloromethane	0.41 U	0.41 U	0.41 U	0.41 U	0.11 J	0.14 J	0.10 J	0.15 J	0.41 U	0.12 J	0.41 U	1.0 U	0.37 J	0.58 J	0.83 U	4.1 U	0.41 U	2.1 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.1 U	2.1 U	2.1 U	10 U	1.0 U	5.2 U
Cyofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.5 U	2.8 U	2.8 U	2.8 U	14 U	1.4 U	7.0 U
Cyclohexane	0.31 J	0.69 U	0.55 J	0.95	0.83	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.4 U	1.4 U	1.4 UJ	220	80	100
Decane, n-	3.4	0.85 J	0.66 J	0.97 J	0.53 J	0.36 J	0.41 J	18	1.2 U	1.2 U	1.2 U	2.9 U	2.3 U	2.3 U	2.3 U	210	18	14
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	3.4 U	3.4 U	3.4 U	17 U	1.7 U	8.5 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.1 U	3.1 U	3.1 U	15 U	1.5 U	7.7 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	2.4 U	2.4 U	2.4 U	12 U	1.2 U	6.0 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.6	1.2 U	1.2 U	1.2 U	3.0 U	2.4 U	2.4 U	2.4 U	12 U	0.31 J	6.0 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.93 J	1.2 U	1.2 U	1.2 U	3.0 U	2.4 U	2.4 U	2.4 U	12 U	1.2 U	6.0 U
Dichlorodifluoromethane	2.3	2.6	2.7	2.5	2.1	2.5	4.4	1.7	1.9	2.9	3.2	4.1	3.4	1.1 J	6.1	9.9 U	0.73 J	4.9 U
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	1.6 U	1.6 U	1.6 U	8.1 U	0.81 U	4.0 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U	0.81 UJ	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	1.6 U	1.6 U	1.6 U	8.1 U	0.81 U	4.0 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	1.6 U	1.6 U	7.9 U	0.79 U	4.0 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	1.6 U	1.6 U	7.9 U	0.79 U	4.0 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	1.8 U	1.8 U	9.2 U	0.92 U	4.6 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	1.8 U	1.8 U	9.1 U	0.91 U	4.5 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	1.8 U	1.8 U	1.8 U	9.1 U	0.91 U	4.5 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 U	0.72 U	1.8 U	1.4 U	1.4 U	1.4 UJ	7.2 U	0.72 U	3.6 U
Dodecane, n-	5.3 J	0.36 J	3.5 U	0.72 J	1.4 U	0.38 J	0.42 J	12	0.68 J	1.4 U	1.4 UJ	3.5 U	2.8 U	0.70 J	1.2 J	98	7.6 J	9.6
Ethanol	3.8 J	1.5 J	1.7 J	0.77 J	1.8 J	0.86 J	0.79 J	46	3.3	1.2 J	1.9 U	4.7 U	1.6 J	3.8 U	2.3 J	23	4.3	6.9 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	1.8 U	1.8 U	1.8 U	9.2 U	0.92 U	4.6 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-24 2/19/2009	OU2SG-24 2/20/2009	OU2SG-24 2/21/2009	OU2SG-24 2/27/2009	OU2SG-24 3/5/2009	OU2SG-24 3/13/2009	OU2SG-24 4/13/2009	OU2SG-24 5/22/2009	OU2SG-24 6/25/2009	OU2SG-24 7/23/2009	OU2SG-24 8/18/2009	OU2SG-24 9/22/2009	OU2SG-24 10/30/2009	OU2SG-24 11/11/2009	OU2SG-24 12/28/2009	OU2SG-25 8/13/2008	OU2SG-25 9/24/2008	Duplicate of OU2SG-25 9/24/2008
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.26 J	0.98 U	0.98 U	0.98 U	0.42 J	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.0 U	2.0 U	4.9 J	0.63 J	4.9 U
Heptane, n-	0.22 J	0.82 U	0.30 J	0.27 J	0.70 J	0.82 U	0.82 U	0.52 J	0.82 U	0.82 U	0.82 U	2.0 U	1.6 U	1.6 U	1.6 U	20	6.1	7.2
Hexachlorobutadiene	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	4.3 U	4.3 U	4.3 U	21 U	2.1 U	11 U
Hexane, n-	0.27 J	0.70 U	0.21 J	0.18 J	0.85	0.70 U	0.70 U	0.49 J	0.70 U	0.70 U	0.70 U	1.8 U	1.4 U	1.4 U	0.70 J	85	35	40
Hexanone, 2-	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	2.0 U	1.6 U	1.6 U	1.6 U	8.2 U	0.82 U	4.1 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indane	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.43 J	0.97 U	0.97 U	0.97 U	2.4 U	1.9 U	1.9 U	1.9 U	120	7.9	8.1
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	2.4 U	1.9 U	1.9 U	1.9 U	9.5 U	0.95 U	4.8 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.4 U	1.4 U	1.4 U	7.2 U	0.72 U	3.6 U
Methyl-2-pentanone, 4-	1.6	0.82 U	0.82 U	0.82 U	1.3 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	1.6 U	1.6 U	1.6 U	8.2 U	0.82 U	4.1 U
Methylene chloride	1.7 U	1.7 U	1.7 U	1.7 U	0.69 U	1.7 U	1.7 U	1.7	2.6 U	1.7 U	0.94 J	1.1 J	3.5 U	1.3 J	3.5 U	6.9 UJ	0.69 U	3.4 U
Methylnaphthalene, 1-	2.9 UJ	2.9 UJ	2.9 U	2.9 UJ	1.2 UJ	2.9 UJ	5.8 U	0.63 J	1.2 U	1.2 U	1.2 UJ	2.9 U	2.3 U	2.3 U	2.3 U	12 U	0.34 J	5.8 UJ
Methylnaphthalene, 2-	2.9 UJ	2.9 U	2.9 U	2.9 UJ	1.2 UJ	2.9 UJ	5.8 U	0.77 J	1.2 U	1.2 U	1.2 UJ	2.9 U	2.3 UJ	2.3 UJ	2.3 U	12 U	0.41 J	5.8 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	1.6 U	1.6 U	8.0 U	0.80 U	4.0 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	1.6 U	1.6 U	8.0 U	0.80 U	4.0 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U	1.0 U	0.37 J	1.0 U	2.6 U	2.1 U	2.1 U	2.1 U	3.7 J	0.85 J	5.2 U
Nonane	0.59 J	1.0 U	0.51 J	1.2	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.1 U	2.1 U	2.1 U	28	1.0 U	4.1 J
Octane, n-	0.99	0.44 J	1.1	0.93 U	0.59 J	0.93 U	50	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	1.9 U	1.9 U	1.9 U	210	24	27
Pentane	0.59 U	0.21 J	0.59 U	0.59 U	1.1	0.49 J	0.59 U	0.65	0.59 U	0.59 U	0.59 U	1.5 U	0.41 J	1.2 U	1.2	420	130 J	200 J
Propanol, 2-	1.2 J	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	0.44 J	3.0 U	1.2 U	1.2 U	1.2 U	3.0 U	2.5 U	2.5 U	2.5 U	6.9 U	1.7 J	2.5 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.43 J	0.85 U	0.85 U	0.85 U	2.1 U	1.7 U	1.7 U	1.7 U	8.5 U	0.85 U	4.3 U
t-Butyl alcohol	0.61 U	0.61 U	0.61 U	0.61 U	1.5 U	0.61 U	0.61 U	0.31 J	0.61 U	0.61 U	0.61 U	1.5 U	1.2 U	1.2 U	1.2 U	6.1 UJ	0.61 U	3.0 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	2.7 U	2.7 U	2.7 U	14 U	1.4 U	6.9 U
Tetrachloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.34 J	0.83 J	1.7	1.8	1.5	1.4 J	2.7 U	0.68 J	2.7 U	14 U	0.66 J	6.8 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.7 U	2.7 U	2.7 UJ	2.7 UJ	1.1 U	2.7 U	5.5 U	0.50 J	1.1 U	1.1 UJ	1.1 U	2.7 UJ	2.2 UJ	2.2 UJ	2.2 U	22	5.5	5.0 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.4 U	1.4 U	1.4 U	6.9 U	0.69 U	3.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	1.6 U	1.6 U	1.6 U	7.9 U	0.79 U	4.0 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	0.39 J	0.38 J	0.39 J	0.40 J	0.81 J	0.61 J	1.5 U	0.74 J	0.61 J	0.46 J	3.8 U	3.1 U	3.1 U	3.1 U	15 U	1.5 U	7.7 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.0 U	3.0 U	3.0 U	15 U	1.5 U	7.4 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	2.2 U	2.2 U	11 U	1.1 U	5.4 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.2 U	2.2 U	2.2 U	11 U	1.1 U	5.4 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.68 J	1.1 U	1.9	1.9	2.2 U	2.2 U	2.2 U	2.2 U	11 U	1.1 U	5.4 U
Trichlorofluoromethane	1.2	1.4	1.4	1.4	1.5	1.8 J	1.6	0.76 J	1.6	1.6	1.5	1.4 J	1.2 J	1.0 J	1.2 J	11 U	1.1 U	5.6 U
Trimethylbenzene, 1,2,3-	0.27 J	0.98 U	0.98 U	0.31 J	0.98 U	0.98 U	0.98 U	0.71 J	0.98 U	0.98 U	0.98 U	2.5 U	2.0 U	2.0 U	2.0 U	31	3.7	3.7 J
Trimethylbenzene, 1,2,4-	0.73 J	0.98 U	0.98 U	0.44 J	0.98 U	0.98 U	0.98 U	1.7	0.98 U	0.98 U	0.98 U	2.5 U	2.0 U	2.0 UJ	2.0 U	41	4.2	3.9 J
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.32 J	0.98 U	0.98 U	0.98 U	0.69 J	0.98 U	0.98 U	0.98 U	2.5 U	2.0 U	2.0 U	2.0 U	15	2.6	2.6 J
Trimethylpentane, 2,2,4-	4.4	2.0	1.7	0.93 U	0.93 U	1.8	0.93 U	5.6	0.93 U	0.93 U	0.93 U	2.3 U	1.9 U	1.9 U	1.9 U	50 J	0.93 U	4.7 U
Undecane, n-	2.0	0.45 J	1.3 U	0.49 J	1.3 U	0.41 J	0.51 J	3.6	1.3 U	1.3 U	1.3 U	3.2 U	2.6 U	0.89 J	2.6 U	79	1.3 UJ	6.4 UJ
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	1.8 U	1.8 U	1.8 U	8.7 U	0.87 U	4.4 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.0 U	1.0 U	1.0 U	5.1 U	0.51 U	2.6 U
Other (%)																		
Carbon Dioxide	NA	NA	NA	NA	NA	NA	2.09	14.3	5.18	4.11	3.62	2.56	2.11	12.6	0.87	NA	NA	NA
Helium	0.0167 U	0.0148	0.017	0.0216	0.0164	0.0202 U	0.0218	0.0188 U	0.0211	0.0254 U	0.0218 U	0.0166 U	0.00352 U	0.0171 U	0.0174 U	0.0164 U	0.0186 U	0.0171 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-25	OU2SG-25A	OU2SG-25P	OU2SG-25A	OU2SG-25P	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25	OU2SG-25
Sample Date:	12/30/2008	2/16/2009	2/16/2009	2/17/2009	2/17/2009	2/18/2009	2/19/2009	2/20/2009	2/21/2009	2/27/2009	3/5/2009	3/13/2009	4/13/2009	5/22/2009	6/25/2009	7/23/2009	8/18/2009	9/22/2009	10/30/2009
BTEX (ug/m3)																			
Benzene	0.64 U	0.48 J	0.17 J	0.64 U	0.64 U	0.19 J	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	1.3 U	0.64 U	0.64 U	0.65 U	6.4 U	6.4 U	1.6 U	1.3 U
Toluene	0.66 J	1.0 J	0.44 J	0.23 J	0.38 J	0.30 J	0.75 U	0.75 U	0.22 J	0.75 U	0.23 J	1.5 U	0.75 U	0.21 J	1.7	7.5 U	7.5 U	0.56 J	1.5 U
Ethylbenzene	0.87 U	0.46 J	0.31 J	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	1.7 U	0.87 U	0.87 U	0.70 J	8.7 U	8.7 U	2.2 U	1.7 U
Xylene, m,p-	0.50 J	1.4 J	0.84 J	0.28 J	0.38 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U	1.4 J	17 U	17 U	4.3 U	3.5 U
Xylene, o-	0.25 J	1.1	0.72 J	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	1.7 U	0.87 U	0.87 U	0.46 J	8.7 U	8.7 U	2.2 U	1.7 U
Other VOCs (ug/m3)																			
Acetaldehyde	4.5 UJ	4.5 UJ	4.5 UJ	2.4 U	3.8 J	2.6 U	2.1 U	3.8 U	3.3 U	2.7 U	2.0 U	3.6 U	3.6 UJ	4.5 U	4.5 UJ	45 UJ	45 UJ	4.5 UJ	9.0 UJ
Acetone	1.2 UJ	1.2 UJ	1.2 UJ	1.4 U	1.6 U	1.6 U	1.4 U	2.3 U	2.0 U	1.3 U	2.0 U	2.4 U	1.8 U	2.3 U	1.8 UJ	12 U	38 J	3.4 U	3.6 UJ
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	1.2 UJ	1.2 UJ	11 U	11 U	2.9 U	2.3 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U	6.3 U	1.6 U	1.2 U
Benzo(a)anthracene	1.1 UJ	1.1 U	1.1 U	2.7 UJ	2.7 UJ	2.7 UJ	2.7 UJ	2.7 U	2.7 U	2.7 U	1.1 U	5.5 UJ	14 UJ	1.1 U	1.1 U	11 UJ	11 UJ	2.7 U	2.2 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	1.3 U	1.3 U	13 U	13 U	3.4 U	2.7 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	2.1 U	2.1 U	2.1 U	21 U	21 U	5.2 U	4.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.78 U	0.78 U	0.78 U	7.8 U	7.8 U	1.9 U	1.6 U
Butadiene, 1,3-	0.44 U	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.44 U	0.44 U	0.44 U	4.4 U	4.4 U	1.1 U	0.88 U
Butane	62	1.8	1.9	0.48	0.20 J	0.39 J	0.31 J	0.39 J	0.66 J	0.25 J	0.27 J	0.39 J	0.71	0.34 J	220	4.3 J	3.1 J	2.4	0.95 U
Butanone, 2-	0.59 U	0.59 U	0.59 U	0.26 J	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	1.2 U	0.59 U	0.59 U	1.8	5.9 U	2.6 J	1.5 U	1.2 U
Carbon disulfide	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	1.6	0.62 U	1.7	0.62 U	1.2 U	0.62 U	0.62 U	2.0	6.2 U	6.2 UJ	1.9 U	1.2 U
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U	1.3 U	1.3 U	1.3 U	13 U	13 U	3.1 U	2.5 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	0.92 U	0.92 U	9.2 U	9.2 U	2.3 U	1.8 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.0 U	0.53 U	0.53 U	0.53 U	5.3 U	5.3 U	1.3 U	1.0 U
Chloroform	0.98 U	0.98 U	0.98 U	1.1	0.85 J	0.96 J	0.90 J	0.88 J	0.84 J	1.4	0.85 J	0.78 J	0.98 U	3.4 J	0.98 U	9.8 U	9.8 U	1.2 J	2.0 U
Chloromethane	0.41 U	0.41 U	0.41 U	0.11 J	0.12 J	0.41 U	0.12 J	0.19 J	0.14 J	0.16 J	0.17 J	0.83 U	0.41 U	0.12 J	0.44	4.1 U	2.9 J	1.6	0.83 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.6 U	2.1 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	14 U	14 U	3.5 U	2.8 U
Cyclohexane	3.3	2.0	0.37 J	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	0.38 J	0.69 U	19	6.9 U	6.9 U	1.7 U	1.4 U
Decane, n-	2.5	2.8	5.1	0.96 J	1.2	0.72 J	0.85 J	1.2 U	1.2 U	1.2 U	1.2 U	2.3 U	1.2 U	1.2 U	11	12 U	12 U	2.9 U	2.3 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.7 U	17 U	17 U	4.3 U	3.4 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	1.5 U	1.5 U	1.5 U	15 U	15 U	3.8 U	3.1 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	12 U	12 U	3.0 U	2.4 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	0.94 J	12 U	12 U	3.0 U	2.4 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U	0.42 J	12 U	12 U	3.0 U	2.4 U
Dichlorodifluoromethane	1.5	1.9	2.1	2.5	2.6	2.6	2.8	3.0	3.0	3.1	2.8	3.5	2.2 J	2.5 J	0.81 J	9.9 U	9.9 U	1.7 J	2.0 U
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	0.81 U	0.81 U	0.81 U	8.1 U	8.1 U	2.0 U	1.6 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 UJ	0.81 U	0.81 U	0.81 U	8.1 U	8.1 U	2.0 U	1.6 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U	0.79 U	7.9 U	7.9 U	2.0 U	1.6 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U	0.79 U	7.9 U	7.9 U	2.0 U	1.6 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	0.92 U	0.92 U	9.2 U	9.2 U	2.3 U	1.8 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	0.91 U	0.91 U	9.1 U	9.1 U	2.3 U	1.8 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	0.91 U	0.91 U	9.1 U	9.1 U	2.3 U	1.8 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 UJ	0.72 UJ	7.2 U	7.2 U	1.8 U	1.4 U
Dodecane, n-	0.49 J	1.6 J	56 J	1.1 J	0.82 J	0.65 J	1.8 J	0.67 J	1.2 J	1.1 J	0.47 J	7.0 U	0.56 J	1.4 U	6.7	14 U	14 UJ	3.5 U	2.8 U
Ethanol	4.4	2.6 U	2.1 U	0.99 J	1.6 J	1.2 J	1.7 J	0.97 J	1.2 J	1.9 J	1.2 J	1.0 J	1.9 U	1.9 U	26	19 U	7.0 J	4.7 U	1.4 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	0.92 U	0.92 U	9.2 U	9.2 U	2.3 U	1.8 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-25 12/30/2008	OU2SG-25A 2/16/2009	OU2SG-25P 2/16/2009	OU2SG-25A 2/17/2009	OU2SG-25P 2/17/2009	OU2SG-25 2/18/2009	OU2SG-25 2/19/2009	OU2SG-25 2/20/2009	OU2SG-25 2/21/2009	OU2SG-25 2/27/2009	OU2SG-25 3/5/2009	OU2SG-25 3/13/2009	OU2SG-25 4/13/2009	OU2SG-25 5/22/2009	OU2SG-25 6/25/2009	OU2SG-25 7/23/2009	OU2SG-25 8/18/2009	OU2SG-25 9/22/2009	OU2SG-25 10/30/2009
Ethyltoluene, p-	0.98 U	0.63 J	0.56 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.33 J	9.8 U	9.8 U	2.5 U	2.0 U
Heptane, n-	0.82 U	1.4 J	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	1.6 U	0.82 U	0.82 U	3.3	8.2 U	8.2 U	2.0 U	1.6 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	4.3 U
Hexane, n-	1.1	0.71 J	0.38 J	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	1.4 U	0.70 U	0.70 U	13	7.0 U	7.0 U	0.62 J	1.4 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	4.1 U	0.82 U	0.82 U	0.82 U	8.2 UJ	8.2 U	2.0 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.28 J	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	9.7 U	9.7 U	1.9 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	0.95 U	0.95 U	9.5 U	9.5 U	2.4 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	0.72 U	0.72 U	7.2 U	7.2 U	1.8 U	1.4 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	1.6 U	0.82 U	0.82 U	0.82 U	8.2 U	8.2 U	2.0 U	1.6 U
Methylene chloride	1.7 U	0.69 U	0.69 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.69 U	3.5 U	1.7 U	1.6 J	1.7 U	17 U	4.5 J	2.6 J	3.5 U
Methylnaphthalene, 1-	R	1.2 UJ	1.2 UJ	2.9 UJ	R	R	0.34 J	2.9 U	2.9 UJ	1.2 UJ	5.8 UJ	5.8 U	1.2 U	0.30 J	12 U	12 UJ	2.9 U	2.3 U	
Methylnaphthalene, 2-	14 UJ	1.2 U	0.35 J	2.9 UJ	2.9 UJ	2.9 UJ	0.48 J	2.9 U	2.9 UJ	1.2 UJ	5.8 UJ	5.8 U	1.2 U	0.43 J	12 U	12 UJ	2.9 U	2.3 UJ	
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	0.80 U	0.80 U	8.0 U	8.0 U	2.0 U	1.6 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	0.80 U	0.80 U	8.0 U	8.0 U	2.0 U	1.6 U
Naphthalene	1.0 U	1.0 U	0.41 J	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1.0 U	1.0 U	1.0 J	10 U	10 U	2.6 U	2.1 U
Nonane	1.0 U	1.0 UJ	4.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1.0 U	1.0 U	1.0 U	10 U	10 U	2.6 U	2.1 U
Octane, n-	0.93 U	1.9	1.0	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.9 U	0.93 U	0.93 U	37	9.3 U	9.3 U	2.3 U	1.9 U
Pentane	2.9	1.1	0.79	0.27 J	0.17 J	0.28 J	0.59 U	0.59 U	1.0	0.59 U	0.19 J	1.2 U	0.56 J	0.33 J	40	5.9 U	3.5 J	1.8	1.2 U
Propanol, 2-	0.49 U	0.49 UJ	0.49 UJ	0.52 J	1.2 U	0.75 J	1.2 U	1.3	0.84 J	1.2 U	1.2 U	2.5 U	0.49 UJ	1.2 U	1.7 U	12 U	12 U	3.0 U	2.5 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.23 J	0.22 J	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	0.85 U	0.85 U	9.4	8.5 U	8.5 U	2.1 U	1.7 U
t-Butyl alcohol	0.61 U	1.5 U	1.5 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.5 U	1.2 U	0.61 U	0.61 U	0.37 J	6.1 U	6.1 U	1.5 U	1.2 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.7 U	1.4 U	1.4 U	1.4 U	14 U	14 U	3.4 U	2.7 U
Tetrachloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.41 J	1.4 U	1.4 U	1.4 U	0.42 J	1.4 U	2.7 U	1.4 U	0.67 J	0.67 J	14 U	14 U	1.2 J	0.68 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 UJ	2.7 UJ	1.1 U	5.5 U	5.5 U	1.1 U	0.59 J	11 UJ	11 U	2.7 UJ	2.2 UJ
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	0.69 U	0.69 U	0.69 U	6.9 U	6.9 U	1.7 U	1.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	7.9 U	2.0 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	0.39 J	1.5 U	0.48 J	0.53 J	0.54 J	0.51 J	0.58 J	0.62 J	0.57 J	0.60 J	3.1 U	0.38 J	0.74 J	1.5 U	15 U	15 U	3.8 U	3.1 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	1.5 U	1.5 U	15 U	15 U	3.7 U	3.0 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	11 U	11 U	2.7 U	2.2 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	11 U	11 U	2.7 U	2.2 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	11 U	11 U	2.7 U	2.2 U
Trichlorofluoromethane	0.80 J	1.3	1.4	1.1 J	1.1 J	1.1 J	1.2	1.4	1.4	1.3	1.2	1.3 J	1.2	2.0 J	1.1 U	11 U	11 U	1.4 J	2.2 U
Trimethylbenzene, 1,2,3-	0.35 J	0.83 J	0.99	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.0 U	0.98 U	0.98 U	0.65 J	9.8 U	9.8 U	2.5 U	2.0 U
Trimethylbenzene, 1,2,4-	0.98 U	0.95 J	1.4	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.0 U	0.98 U	0.98 U	1.7	9.8 U	9.8 U	2.5 U	2.0 U
Trimethylbenzene, 1,3,5-	0.98 U	0.74 J	0.80 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.0 U	0.98 U	0.98 U	0.86 J	9.8 U	9.8 U	2.5 U	2.0 U
Trimethylpentane, 2,2,4-	4.8	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.9 U	0.79 J	0.93 U	0.93 UJ	14	9.3 U	2.3 U	1.9 U
Undecane, n-	0.58 J	1.6	8.9	0.89 J	0.36 J	1.3 U	0.88 J	0.37 J	0.57 J	1.2 J	1.3 U	2.6 U	0.89 J	1.3 U	2.2	13 U	13 U	3.2 U	2.6 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	1.8 U	0.87 U	0.87 U	0.87 U	8.7 U	8.7 U	2.2 U	1.8 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	0.51 U	0.51 U	0.51 U	5.1 U	5.1 U	1.3 U	1.0 U
Other (%)																			
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.7	3.31	16.7	20.4	20.5	16.7	15.3
Helium	0.0179	0.49	0.0154	0.0172	0.0209	0.0163	0.0222 U	0.0185	0.015	0.028	0.0147	0.0202 U	0.0225	0.0234 U	0.0187	0.0196 U	0.0183 U	0.0173 U	0.00368 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-25	OU2SG-25	OU2SG-26	Duplicate of	OU2SG-26	OU2SG-26	OU2SG-26A	Duplicate of	OU2SG-26P	OU2SG-26A
Sample Date:	11/11/2009	12/28/2009	8/13/2008	OU2SG-26	9/23/2008	12/30/2008	2/16/2009	OU2SG-26A	2/16/2009	2/17/2009
BTEX (ug/m3)										
Benzene	1.3 U	0.38 J	0.35 J	0.29 J	0.64 U	0.64	0.30 J	0.28 J	0.64 U	0.26 J
Toluene	1.5 U	0.60 J	0.49 J	0.26 J	1.7	11	4.0 J	5.2 J	0.41 J	1.2
Ethylbenzene	1.7 U	1.7 U	0.87 U	0.87 U	1.3	22	11	14	1.8	1.1 J
Xylene, m,p-	3.5 U	3.5 U	0.30 J	0.26 J	8.6	44	39 J	56 J	6.7	4.5
Xylene, o-	1.7 U	1.7 U	0.87 U	0.87 U	3.2	46	29	32	5.8	2.4
Other VOCs (ug/m3)										
Acetaldehyde	9.0 U	9.0 U	26 J	37 J	9.7 J	3.2 J	5.8 U	5.0 U	7.0 U	3.8 J
Acetone	1.8 J	1.8 J	9.0 J	6.6 J	6.2	3.0 U	2.7 U	2.5 U	2.7 U	2.1 U
Acrolein (propenal)	2.3 U	2.3 U	0.46 U	0.27 J	0.25 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzo(b)thiophene	2.2 UJ	2.2 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	2.7 UJ
Bromodichloromethane	2.7 U	2.7 U	0.54 J	0.54 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 UJ	0.44 UJ	0.44 UJ	0.44 U
Butane	1.3	0.95 U	2.8	2.8	0.48 U	0.28 J	0.29 J	0.24 J	0.36 J	0.48 U
Butanone, 2-	1.2 U	1.2 U	2.4 J	1.6 J	1.6	0.59 U	0.59 U	0.59 U	0.59 U	0.29 J
Carbon disulfide	1.2 U	0.37 J	1.5	1.5	0.34 J	1.2	0.63 J	0.39 J	0.62 U	0.62 U
Carbon tetrachloride	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	2.4	2.0 U	120	130	28	3.0	1.6	2.0	1.8	1.6
Chloromethane	0.83 U	1.3	0.60	0.64	0.31 J	0.20 J	0.41 U	0.41 U	0.41 U	0.13 J
Chlorotoluene, 2-	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	1.4 U	1.4 UJ	0.17 J	0.69 U	0.69 U	0.28 J	0.69 U	0.69 U	0.69 U	0.69 U
Decane, n-	2.3 U	2.3 U	20	20	80	340	160	190	160	38
Dibromochloromethane	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	2.4 U	2.4 U	0.42 J	0.36 J	1.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	4.7	2.0	3.1	3.3	2.8	2.8	2.4	2.5	2.7	2.4
Dichloroethane, 1,1-	1.6 U	1.6 U	0.44 J	0.44 J	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	1.4 U	1.4 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	2.8 U	2.8 U	13 J	12	28	24 J	22 J	24 J	60 J	16 J
Ethanol	3.8 U	3.8 U	8.6 J	5.7 J	12	4.6	2.4 U	2.9 U	3.0 U	4.8
Ethylthiophene, 2-	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-25 11/11/2009	OU2SG-25 12/28/2009	OU2SG-26 8/13/2008	Duplicate of OU2SG-26 8/13/2008	OU2SG-26 9/23/2008	OU2SG-26 12/30/2008	OU2SG-26A 2/16/2009	Duplicate of OU2SG-26A 2/16/2009	OU2SG-26P 2/16/2009	OU2SG-26A 2/17/2009
Ethyltoluene, p-	2.0 U	2.0 U	0.98 U	0.98 U	2.3	26	19	21	8.2	2.1
Heptane, n-	0.49 J	1.6 U	0.53 J	0.37 J	0.33 J	1.6	0.50 J	0.61 J	0.82 U	0.20 J
Hexachlorobutadiene	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ
Hexane, n-	0.70 J	0.63 J	0.25 J	0.70 U	0.70 U	0.22 J	0.70 UJ	0.70 UJ	0.70 UJ	0.70 U
Hexanone, 2-	1.6 U	1.6 U	1.6	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	1.9 U	1.9 U	0.97 U	0.97 U	1.3	17	12	12	8.5	2.9
Indene	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.4 U	1.4 U	2.5	2.7	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.9 J	3.5 U	0.62 UJ	0.69 UJ	0.69 UJ	1.7 U	0.69 U	0.69 U	0.69 U	1.7 U
Methylnaphthalene, 1-	2.3 U	2.3 U	1.2 U	1.2 U	1.2 U	R	1.4 J	0.96 J	3.0 J	2.9 UJ
Methylnaphthalene, 2-	2.3 UJ	2.3 U	1.2 U	1.2 U	1.2 U	14 UJ	2.3	1.2	4.8	2.9 UJ
Methylthiophene, 2-	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.1 U	2.1 U	0.37 J	0.42 J	0.79 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	2.1 U	2.1 U	0.37 J	0.37 J	13	240	140	140	33	8.5
Octane, n-	1.9 U	1.9 U	69	62	93	30	8.9	10	1.2	1.1
Pentane	0.94 J	1.2 U	0.74	0.50 J	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
Propanol, 2-	2.5 U	2.5 U	0.52 U	0.49 U	0.49 U	0.48 UJ	0.68 U	0.64 U	0.60 U	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.7 U	1.7 U	0.85 U	0.85 U	0.21 J	0.77 J	0.74 J	0.92	0.85 U	0.85 U
t-Butyl alcohol	1.2 U	1.2 U	0.61 UJ	0.61 UJ	0.61 U	0.61 U	1.5 U	1.5 U	1.5 U	0.21 J
Tetrachloroethane, 1,1,2,2-	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	0.68 J	2.7 U	6.0	6.0	3.2	2.2	0.79 J	1.1 J	0.36 J	0.35 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.2 UJ	2.2 U	0.38 J	0.38 J	3.6	74	58 J	39 J	74 J	26
Thiophene	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.1 U	3.1 U	0.92 J	0.92 J	0.77 J	1.0 J	0.56 J	0.52 J	0.46 J	0.70 J
Trichlorobenzene, 1,2,4-	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	2.2 U	2.2 U	1.6	1.7	0.76 J	0.28 J	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	2.2 U	2.2 U	0.27 J	0.27 J	1.1 U	1.1 U	1.1 U	1.1 U	0.39 J	1.1 U
Trichlorofluoromethane	1.6 J	1.1 J	2.2	2.2	2.1	1.6	1.2	1.1 J	1.1 J	1.0 J
Trimethylbenzene, 1,2,3-	2.0 U	2.0 U	0.25 J	0.25 J	4.6	52	72	78	46	15
Trimethylbenzene, 1,2,4-	2.0 UJ	2.0 U	0.49 J	0.54 J	12	110	51	64	32	8.2
Trimethylbenzene, 1,3,5-	2.0 U	2.0 U	0.98 U	0.98 U	3.9	130	69	72	27	6.9
Trimethylpentane, 2,2,4-	1.9 U	1.9 U	0.47 J	0.37 J	0.42 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	0.89 J	2.6 U	1.3 U	1.3 U	22	160	94	79	140	57
Vinyl bromide	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)										
Carbon Dioxide	2.06	12.2	NA	NA	NA	NA	NA	NA	NA	NA
Helium	0.0164 U	0.0152 U	0.0177 U	0.0175 U	0.0155 U	0.0163	0.039	0.0175	0.0188	0.029

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-26P 2/17/2009	OU2SG-26 2/18/2009	OU2SG-26 2/19/2009	Duplicate of OU2SG-26 2/19/2009	OU2SG-26 2/20/2009	OU2SG-26 2/21/2009	OU2SG-26 2/27/2009	OU2SG-26 3/5/2009	Duplicate of OU2SG-26 3/5/2009	OU2SG-26 3/13/2009	OU2SG-26 4/13/2009	OU2SG-26 5/22/2009	OU2SG-26 6/25/2009	OU2SG-26 7/23/2009	Duplicate of OU2SG-26 7/23/2009	OU2SG-26 8/18/2009	OU2SG-26 9/22/2009	OU2SG-26 10/30/2009	OU2SG-26 11/11/2009
BTEX (ug/m3)																			
Benzene	0.63 J	0.41 J	0.64 U	0.64 U	0.54 J	0.18 J	0.21 J	0.26 J	0.45 J	0.18 J	0.16 J	0.64 U	0.64 U	0.16 J	1.3 U	0.35 J	1.6 U	1.3 U	0.32 J
Toluene	5.7	3.6	0.63 J	0.80	11	0.47 J	1.8	1.3	1.7	2.8	1.4	4.3	4.3	2.0	2.5	2.8	1.8 J	0.75 J	0.45 J
Ethylbenzene	0.40 J	2.0 J	0.90 J	1.1 J	2.0 J	0.53 J	3.3 J	1.4	1.3	4.3 J	2.2	17	10	6.4	6.2	11 J	1.8 J	0.61 J	1.7 U
Xylene, m,p-	1.5 J	8.8	4.6	4.9	7.7	2.3	16	6.5	5.0	21	6.6	54	39	27	24	57 J	8.6	2.1 J	1.2 J
Xylene, o-	0.88	4.1	2.4	3.1	3.0	1.0	8.3	3.8 J	2.6 J	9.9	4.6	28	18	14	14	34 J	4.4	1.5 J	0.78 J
Other VOCs (ug/m3)																			
Acetaldehyde	1.8 UJ	5.1 J	4.6 U	5.3	8.1 J	2.3 U	2.4 U	3.7 U	2.6 U	1.8 U	3.6 U	8.5	4.5 U	9.4 J	12 J	26 J	6.3 U	9.0 UJ	9.0 U
Acetone	1.2 UJ	1.2 UJ	2.4 U	3.3 U	1.2 UJ	2.2 U	2.8 U	2.8 U	3.5 U	1.2 U	3.9	4.7 U	3.2 U	5.1 U	6.5 U	5.9 J	3.9 U	3.6 U	1.5 J
Acrolein (propenal)	0.46 U	0.24 J	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 UJ	1.2 U	1.2 U	2.3 U	2.9 U	2.3 U	2.3 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.2 U	0.63 U	1.6 U	1.2 U	1.2 U
Benzothiophene	2.7 UJ	2.7 UJ	2.7 U	2.7 UJ	2.7 U	2.7 U	2.7 U	1.1 U	1.1 U	2.7 UJ	14 UJ	1.1 U	1.1 U	1.1 UJ	2.2 UJ	1.1 UJ	2.7 U	2.2 UJ	2.2 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	3.4 U	2.7 U	2.7 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	2.1 U	5.2 U	4.1 U	4.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.78 U	1.9 U	1.6 U	1.6 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.44 U	1.1 U	0.88 U	0.88 U
Butane	1.2	0.48	0.48 U	0.48 U	0.59	0.40 J	0.48 U	0.37 J	0.81	0.48	0.71	0.48 U	0.48 U	0.48 U	0.43 J	0.48 U	0.48 J	0.95 J	0.95 U
Butanone, 2-	0.67	0.63	0.59 U	0.47 J	0.90	0.56 J	0.70	0.59 U	0.62	0.31 J	0.44 J	0.80	0.81	1.3	1.2	1.3	1.5 U	1.2 U	1.2 U
Carbon disulfide	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.28 J	0.18 J	0.62 U	0.17 J	0.62 U	0.62 U	1.2	1.6	0.81 U	1.3	1.6 J	1.6 U	1.2 U	1.2 U
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U	1.3 U	3.1 U	2.5 U	2.5 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	2.3 U	1.8 U	1.8 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.0 U	0.53 U	1.3 U	1.0 U	1.0 U
Chloroform	1.7	1.8	2.4	2.5	1.6	1.4	1.7	1.7	1.6	1.7	1.8	2.9	3.0	5.3	5.2	5.6	4.8	1.5 J	1.2 J
Chloromethane	0.34 J	0.21 J	0.41 U	0.41 U	0.47	0.16 J	0.21 J	0.23 J	0.37 J	0.11 J	0.41 U	0.14 J	0.41 U	0.27 J	0.45 J	0.23 J	1.0 U	0.83 U	0.83 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1.0 U	2.6 U	2.1 U	2.1 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	3.5 U	2.8 U	2.8 U
Cyclohexane	0.69	0.69 U	0.69 U	0.69 U	0.21 J	0.69 U	0.69 U	0.69 U	0.56 J	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	0.69 U	1.7 U	1.4 U	1.4 U
Decane, n-	34	41	14	18	10	3.2	20	10 J	0.92 J	33	29	350	72	23	20	31	2.9 U	2.3 U	2.3 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	4.3 U	3.4 U	3.4 U
Dibromomethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	1.5 U	3.8 U	3.1 U	3.1 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	3.0 U	2.4 U	2.4 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	3.0 U	2.4 U	2.4 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	3.0 U	2.4 U	2.4 U
Dichlorodifluoromethane	2.3	2.4	2.6	3.0	2.9	2.1	2.6	2.5	2.3	2.4	2.6	1.2	0.98 J	1.9	2.3	2.0	2.1 J	2.3	2.2
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	0.81 U	2.0 U	1.6 U	1.6 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 UJ	0.81 U	0.81 U	0.81 UJ	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	0.81 U	2.0 U	1.6 U	1.6 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	2.0 U	1.6 U	1.6 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	2.0 U	1.6 U	1.6 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	2.3 U	1.8 U	1.8 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	2.3 U	1.8 U	1.8 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	2.3 U	1.8 U	1.8 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 U	1.4 U	0.72 U	1.8 U	1.4 U	1.4 U
Dodecane, n-	37 J	29 J	37	23 J	12 J	6.8 J	10 J	4.8 J	1.4 UJ	9.8 J	14	47	16	1.4 UJ	19 J	7.0 J	3.5 U	2.8 U	2.8 U
Ethanol	1.6 J	6.8	3.3 J	4.4 J	8.6	3.4 J	5.5	3.3 J	4.4 J	2.1 J	1.7 J	6.8	5.8	3.9	4.9	4.9	5.6	2.0 J	1.4 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	0.92 U	2.3 U	1.8 U	1.8 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-26P 2/17/2009	OU2SG-26 2/18/2009	OU2SG-26 2/19/2009	Duplicate of OU2SG-26 2/19/2009	OU2SG-26 2/20/2009	OU2SG-26 2/21/2009	OU2SG-26 2/27/2009	OU2SG-26 3/5/2009	Duplicate of OU2SG-26 3/5/2009	OU2SG-26 3/13/2009	OU2SG-26 4/13/2009	OU2SG-26 5/22/2009	OU2SG-26 6/25/2009	OU2SG-26 7/23/2009	Duplicate of OU2SG-26 7/23/2009	OU2SG-26 8/18/2009	OU2SG-26 9/22/2009	OU2SG-26 10/30/2009	OU2SG-26 11/11/2009
Ethyltoluene, p-	1.1	2.8	1.4	1.9	0.94 J	0.58 J	5.6	2.4 J	1.1 J	6.7	4.3	37	23	24	21	55 J	4.3	1.2 J	2.0 U
Heptane, n-	0.69 J	0.71 J	0.82 U	0.82 U	0.41 J	0.82 U	0.82 U	0.82 UJ	0.43 J	0.23 J	0.33 J	0.37 J	0.42 J	0.82 U	1.6 U	0.82 U	2.0 U	1.6 U	1.6 U
Hexachlorobutadiene	2.1 UJ	2.1 UJ	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	5.3 U	4.3 U
Hexane, n-	0.88	0.36 J	0.70 U	0.70 U	0.41 J	0.70 U	0.70 U	0.19 J	0.51 J	0.70 U	0.32 J	0.70 U	0.70 U	0.70 U	1.4 U	0.70 U	1.8 U	1.4 U	1.4 U
Hexanone, 2-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U	2.0 U	0.82 U	0.53 J	2.5	1.6	1.6 J	1.0	2.0 U	1.6 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	2.4	3.1	2.0	2.3	0.76 J	0.53 J	4.3	1.9	0.92 J	5.2	3.5	89	15	18	16	43	3.0	0.87 J	0.58 J
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	2.4 U	1.9 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	0.72 U	1.8 U	1.4 U	1.4 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 UJ	0.82 U	0.82 U	0.70 J	1.5	1.8	2.0	7.1	1.3 J	1.6 U	1.6 U
Methylene chloride	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.69 U	0.69 U	1.7 U	1.7 U	0.97 J	1.8 U	1.7 U	3.4 U	0.83 J	1.6 J	3.5 U	1.7 J
Methylnaphthalene, 1-	2.7 J	2.4 J	2.9 J	2.9 UJ	0.52 J	0.98 J	1.1 J	1.2 UJ	1.2 UJ	2.9 UJ	5.8 U	6.9 J	2.6 J	4.6 J	12 J	4.9 J	2.9 U	2.3 U	2.3 U
Methylnaphthalene, 2-	2.8 J	2.7 J	4.0 J	2.9 UJ	0.87 J	1.1 J	0.85 J	1.2 UJ	1.2 UJ	2.9 UJ	5.8 U	13	3.5	7.1 J	15 J	6.7 J	2.9 U	2.3 UJ	2.3 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	2.0 U	1.6 U	1.6 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	2.0 U	1.6 U	1.6 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	73	13	14	14	9.4	2.6 U	2.0 U	2.1 U
Nonane	3.3	12	2.0	2.5	2.0	2.1	16	7.9 J	3.9 J	26	16	170	74	10	9.3	11	2.6 U	1.0 J	2.1 U
Octane, n-	0.37 J	2.8	0.93 U	0.30 J	0.96	0.47 J	2.6	0.89 J	0.85 J	3.9	2.2	13	13	1.4	1.4 J	0.98	2.3 U	1.9 U	1.9 U
Pentane	1.8	5.8	0.59 U	0.59 U	13	0.31 J	0.59 U	0.31 J	1.2 J	0.40 J	0.44 J	0.59 U	0.59 U	0.59 U	1.2 U	0.59 U	1.5 U	1.2 U	1.2 U
Propanol, 2-	1.2 U	1.1 J	1.2 U	1.2 U	2.7	0.42 J	1.2 U	1.2 U	1.2 U	1.2 U	0.79	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	3.0 U	1.4 J	2.5 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.25 J	0.85 U	0.71 J	0.65 J	0.85 U	0.38 J	0.85 U	0.85 U	0.34 J	0.85 U	0.60 J	0.46 J	0.43 J	1.7 U	0.72 J	2.1 U	1.7 U	1.7 U
t-Butyl alcohol	0.61 U	0.61 U	0.30 J	0.26 J	0.30 J	0.48 J	0.27 J	1.5 U	1.5 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	0.61 U	1.5 U	1.2 U	1.2 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.7 U	1.4 U	3.4 U	2.7 U	2.7 U
Tetrachloroethene	0.44 J	0.61 J	0.45 J	0.38 J	0.64 J	1.4 U	0.44 J	1.4 U	1.4 U	0.52 J	0.41 J	2.8	3.6	2.9	2.4 J	2.6	1.5 J	0.95 J	0.68 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	31	31	23 J	33 J	4.9	3.4 J	15 J	6.2 J	1.1 UJ	17	33 J	200 J	71 J	75	68 J	61	11 J	4.1 J	2.7 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	0.69 U	1.7 U	1.4 U	1.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	2.0 U	1.6 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.41 J	1.5 U	0.47 J	0.48 J	0.46 J	1.5 U	0.63 J	0.39 J	1.5 U	0.42 J	0.54 J	0.61 J	0.57 J	0.61 J	3.1 U	0.46 J	3.8 U	3.1 U	3.1 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 U	1.5 U	3.7 U	3.0 U	3.0 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.40 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	2.7 U	2.2 U	2.2 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	2.7 U	2.2 U	2.2 U
Trichloroethene	0.55 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.31 J	1.1 U	2.2 U	1.1 U	2.7 U	2.2 U	2.2 U	2.2 U
Trichlorofluoromethane	0.90 J	0.96 J	1.1 J	1.2	1.2	0.81 J	1.1 J	1.0 J	1.0 J	1.0 J	1.2	1.4	1.6	3.0	3.0	3.8	5.5	3.3	2.9
Trimethylbenzene, 1,2,3-	12	16	9.0	10	3.2	2.2	20	8.2 J	1.5 J	25	17	69	27	39	34	120	8.8	2.8	1.5 J
Trimethylbenzene, 1,2,4-	5.1	10	6.1 J	7.7	3.2 J	2.0	19	8.3 J	2.0 J	23	9.1	85	54	66	57	190	15	3.1	2.2 J
Trimethylbenzene, 1,3,5-	3.8	8.3	4.1 J	5.1	2.3 J	1.3	14	5.9 J	2.2 J	17	8.1	78	38	46	40	110	9.0	2.6	1.2 J
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.9 U	0.93 U	2.3 U	1.9 U	1.9 U
Undecane, n-	78	76	50 J	68 J	24	8.0	21	7.6 J	1.3 UJ	20	21	180	33	1.3 UJ	2.6 UJ	1.3 U	3.2 U	2.6 U	2.6 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	1.8 U	0.87 U	2.2 U	1.8 U	1.8 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	0.51 U	1.3 U	1.0 U	1.0 U
Other (%)																			
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.48	5.3	6.27	8.53	8.58	9.93	9.21	7.89	6.98	
Helium	0.0153	0.017	0.0357	0.0161 U	0.0157	0.0157	0.0167	0.0181	0.0153	0.0158 U	0.0204	0.0182 U	0.0226	0.0226 U	0.0205 U	0.0196 U	0.082	0.00352 U	0.0152 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-26	OU2SG-28	OU2SG-28A	OU2SG-28P	OU2SG-28A	OU2SG-28P	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28
Sample Date:	12/28/2009	3/19/2009	3/31/2009	3/31/2009	4/1/2009	4/1/2009	4/2/2009	4/3/2009	4/4/2009	4/5/2009	4/6/2009	4/10/2009	4/17/2009
BTEX (ug/m3)													
Benzene	1.3 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.18 J
Toluene	1.5 U	0.67 J	0.26 J	0.30 J	0.27 J	0.40 J	0.36 J	0.63 J	0.31 J	0.60 J	0.56 J	0.60 J	0.83
Ethylbenzene	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.23 J	0.26 J	0.31 J
Xylene, m,p-	3.5 U	0.49 J	0.25 J	0.25 J	1.7 U	1.7 U	1.7 U	0.45 J	1.7 U	0.48 J	0.77 J	0.87 J	1.1 J
Xylene, o-	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.22 J	0.22 J	0.35 J
Other VOCs (ug/m3)													
Acetaldehyde	9.0 U	1.8 U	2.5 U	3.9 U	1.8 UJ	3.6 U	3.6 U	3.6 U	3.6 U	3.6 J	3.6 U	3.6 U	4.5 U
Acetone	0.95 J	2.4 U	1.8 U	2.6 J	1.8 UJ	2.1 U	2.8 U	1.8 U	1.8 U	1.4 J	1.8 J	1.8 U	2.5 J
Acrolein (propenal)	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	2.2 U	1.1 U	2.7 U	2.7 U	2.7 U	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 U
Bromodichloromethane	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.88 U	0.44 U	0.44 UJ	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.95 U	0.43 J	1.3	2.3 J	0.63 J	0.56	0.69	0.69	0.45 J	0.48	0.51	0.36 J	0.55
Butanone, 2-	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	0.39 J	1.1	0.33 J	0.37 J	0.38 J	0.34 J	0.47 J	0.40 J
Carbon disulfide	0.31 J	0.49 J	1.7	2.0 J	1.7 J	0.96 U	1.3	1.1 U	0.80 U	2.0	2.3	1.9 U	2.1
Carbon tetrachloride	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	0.68 J	5.8	5.6	5.1 J	5.6 J	4.9	5.0	5.0	4.8	5.3	5.1	4.8	4.4
Chloromethane	0.83 U	0.41 U	0.41 U	0.14 J	0.41 U	0.13 J	0.15 J	0.12 J	0.19 J	0.10 J	0.13 J	0.41 U	0.22 J
Chlorotoluene, 2-	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	1.4 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.28 J	0.69 U	0.69 U
Decane, n-	0.93 J	0.33 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.33 J	1.2 U	0.88 J
Dibromochloromethane	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	2.4	2.3	2.7	2.5 J	2.6 J	2.9	2.8	2.9	2.8	2.9	2.9	2.8	2.9
Dichloroethane, 1,1-	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	1.4 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	0.84 J	0.86 J	0.85 J	0.48 J	0.71 J	1.2 J	0.68 J	0.54 J	0.65 J	0.70 J	1.4 J	0.42 J	1.3 J
Ethanol	0.94 J	3.8	1.5 J	5.1 J	1.1 J	1.2 J	1.1 J	5.6	0.63 J	1.4 J	1.1 J	1.1 J	1.8 J
Ethylthiophene, 2-	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-26 12/28/2009	OU2SG-28 3/19/2009	OU2SG-28A 3/31/2009	OU2SG-28P 3/31/2009	OU2SG-28A 4/1/2009	OU2SG-28P 4/1/2009	OU2SG-28 4/2/2009	OU2SG-28 4/3/2009	OU2SG-28 4/4/2009	OU2SG-28 4/5/2009	OU2SG-28 4/6/2009	OU2SG-28 4/10/2009	OU2SG-28 4/17/2009
Ethyltoluene, p-	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	1.6 U	0.82 U	0.49 J	1.2 J	0.97 J	0.52 J	0.82 U	1.9	0.75 J	0.94	0.82 U	0.90	0.26 J
Hexachlorobutadiene	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	1.4 U	0.70 U	0.39 J	1.2 J	0.70 U	0.70 U	0.70 U	0.36 J	0.70 U	0.70 U	0.70 U	0.70 U	0.44 J
Hexanone, 2-	1.6 U	0.82 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	3.5 U	1.7 U	1.7 U	1.7 U	2.8 U	2.1 U	2.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methylnaphthalene, 1-	2.3 U	1.2 U	2.9 UJ	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U
Methylnaphthalene, 2-	2.3 U	1.2 U	2.9 UJ	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U
Methylthiophene, 2-	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 J	1.0 U	1.0 U
Nonane	2.1 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J
Octane, n-	1.9 U	0.93 U	0.93 U	0.43 J	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Pentane	1.2 U	0.31 J	1.1	1.8 J	0.64 J	0.38 J	0.50 J	0.54 J	0.27 J	0.38 J	0.39 J	0.41 J	0.42 J
Propanol, 2-	2.5 U	1.2 U	1.2 U	1.2 J	1.2 U	0.61	2.8	0.51 U	0.49 U	0.49 U	0.49 U	0.49 U	0.64
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.45 J	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	1.2 U	0.28 J	0.61 U	0.61 U	0.61 U	0.18 J	0.18 J	0.37 J	0.21 J	0.61 U	0.19 J	0.61 U	0.29 J
Tetrachloroethane, 1,1,2,2-	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	2.7 U	1.4 U	0.47 J	1.4 U	0.36 J	0.46 J	0.63 J	0.54 J	0.79 J	0.54 J	0.54 J	0.47 J	0.61 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.2 U	1.1 U	2.7 U	2.7 U	2.7 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Thiophene	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.1 U	0.51 J	0.49 J	0.39 J	0.44 J	0.57 J	0.65 J	0.60 J	0.57 J	0.61 J	0.58 J	0.54 J	0.65 J
Trichlorobenzene, 1,2,4-	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	2.1 J	1.3	1.5	1.4 J	1.5 J	1.5	1.6	1.6	1.6	1.6	1.8	1.6	1.7
Trimethylbenzene, 1,2,3-	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.29 J
Trimethylbenzene, 1,3,5-	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	0.89 J	0.33 J	1.3 U	0.39 J	1.3 U	0.38 J	1.3 U	1.3 U	1.3 U	1.3 U	0.65 J	1.3 U	0.78 J
Vinyl bromide	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)													
Carbon Dioxide	5.29	NA	0.272	0.221 U	1.83	1.8	1.57	5.82	1.95	1.92	1.75	2.05	1.91
Helium	0.0164 U	0.0159 U	0.0167 U	0.0221 U	0.0188	0.0191	0.0157	0.0176	0.0164	0.0188	0.0182	0.0213	0.0182

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-28	OU2SG-29	OU2SG-29	OU2SG-29	OU2SG-29	OU2SG-29	OU2SG-29	OU2SG-29
Sample Date:	4/24/2009	5/13/2009	6/16/2009	7/13/2009	8/12/2009	9/22/2009	10/14/2009	11/17/2009	12/28/2009	8/13/2008	9/23/2008	12/30/2008	3/13/2009	6/25/2009	9/25/2009	12/30/2009
BTEX (ug/m3)																
Benzene	0.64 U	0.64 U	0.31 J	0.18 J	0.64 U	1.6 U	1.6 U	1.3 U	1.3 U	0.64 U	0.26 J	3.2 U	6.4 U	0.45 J	1.3 U	0.26 J
Toluene	0.35 J	0.79	0.94	0.69 J	0.60 J	1.9 U	1.9 U	1.5 U	1.5 U	0.56 J	2.7	40	63	6.4	1.3 J	1.8
Ethylbenzene	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	2.2 U	1.7 U	1.7 U	0.87 U	1.8	86 J	190	12	7.9	5.4
Xylene, m,p-	1.7 U	0.52 J	1.7 U	0.43 J	0.43 J	4.3 U	4.3 U	3.5 U	3.5 U	0.26 J	9.2	450	860	38	17	8.9
Xylene, o-	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	2.2 U	1.7 U	1.7 U	0.87 U	3.4	220 J	440	14	10	11
Other VOCs (ug/m3)																
Acetaldehyde	4.5 U	4.9 U	4.5 U	8.3 J	14 J	5.8 U	7.7 U	4.0 J	9.0 U	11 J	18	22 U	18 U	10	4.9 J	1.2 J
Acetone	2.3 J	2.6 U	2.6 U	3.1 J	4.3 J	3.2 U	4.5 U	2.2 J	0.95 J	5.6 J	7.7	5.9 U	24 U	6.3 U	4.8 U	0.81 J
Acrolein (propenal)	0.46 U	1.2 U	0.91 J	0.32 J	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	0.46 U	0.39 J	2.3 U	4.6 U	1.1 J	2.3 U	1.2 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.6 U	1.2 U	1.2 U	0.63 U	0.63 U	3.1 U	6.3 U	0.63 U	1.2 U	0.63 U
Benzothiophene	14 UJ	1.1 U	1.1 U	0.68 J	1.1 UJ	2.7 U	2.7 U	2.2 UJ	2.2 U	1.1 U	1.1 U	5.5 UJ	11 U	1.1 U	2.2 U	1.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	3.4 U	2.7 U	2.7 U	0.33 J	1.3 U	6.7 U	13 U	1.3 U	2.7 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	5.2 U	5.2 U	4.1 U	4.1 U	2.1 U	2.1 U	10 U	21 U	2.1 U	4.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.9 U	1.6 U	1.6 U	0.78 U	0.78 U	3.9 U	7.8 U	0.66 J	1.6 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	1.1 U	0.88 U	0.88 U	0.44 U	0.44 U	2.2 U	4.4 U	0.44 U	0.88 U	0.44 U
Butane	2.5	1.2	0.42 J	0.37 J	0.52	1.2 U	1.2 U	0.95 U	0.95 U	0.97 J	0.38 J	2.4 U	1.5 J	0.69	0.57 J	0.36 J
Butanone, 2-	0.59 U	0.59 U	0.48 J	0.70	0.74	1.5 U	1.5 U	1.2 U	1.2 U	0.94 J	1.8	3.0 U	5.9 U	1.0	1.2 U	0.59 U
Carbon disulfide	4.3	4.3	2.8	2.8 J	1.6 UJ	1.6 U	1.6 U	0.50 J	0.31 J	0.93 U	0.34 J	1.4 J	6.2 U	2.7	0.44 J	0.47 J
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	3.1 U	2.5 U	2.5 U	1.3 U	1.3 U	6.3 U	13 U	1.3 U	2.5 U	0.38 J
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	4.6 U	9.2 U	0.92 U	1.8 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.3 U	1.0 U	1.0 U	0.53 U	0.53 U	2.6 U	5.3 U	0.53 U	1.0 U	0.53 U
Chloroform	5.3	4.9	5.2	6.8	6.1	5.7	5.0	4.5	1.7 J	1.1 J	0.73 J	4.9 U	9.8 U	0.49 J	0.78 J	0.98 U
Chloromethane	0.41 U	0.41 U	0.13 J	0.18 J	0.41 U	1.0 U	1.0 U	0.83 U	0.83 U	0.41 U	0.27 J	2.1 U	4.1 U	0.50	0.82 U	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U	5.2 U	10 U	1.0 U	2.1 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.5 U	3.5 U	2.8 U	2.8 U	1.4 U	1.4 U	7.0 U	14 U	1.4 U	2.8 U	1.4 U
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U	1.4 UJ	0.69 U	0.69 U	0.93 J	6.9 U	1.6	1.4 U	0.69 U
Decane, n-	0.49 J	1.2 U	0.40 J	1.2 U	0.70 J	2.9 U	2.9 U	2.3 U	2.3 U	15 J	57	1600	2300	100 J	30 J	9.0
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	4.3 U	3.4 U	3.4 U	0.68 J	1.7 U	8.5 U	17 U	1.7 U	3.4 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.1 U	3.1 U	1.5 U	1.5 U	7.7 U	15 U	1.5 U	3.1 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U	6.0 U	12 U	1.2 U	2.4 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	0.54 J	1.1 J	6.0 U	12 U	1.2 U	2.4 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U	6.0 U	12 U	1.2 U	2.4 U	1.2 U
Dichlorodifluoromethane	3.2	2.7	1.4	2.8	2.8	3.8	3.1	3.3	3.3	2.7 J	2.9	2.8 J	9.9 U	2.6	3.0	2.1
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U	4.0 U	8.1 U	0.81 U	1.6 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U	4.0 U	8.1 U	0.81 U	1.6 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U	4.0 U	7.9 U	0.79 U	1.6 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U	4.0 U	7.9 U	0.79 U	1.6 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	4.6 U	9.2 U	0.92 U	1.8 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U	4.5 U	9.1 U	0.91 U	1.8 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U	4.5 U	9.1 U	0.91 U	1.8 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 UJ	0.72 UJ	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 UJ	0.72 U	0.72 U	3.6 U	7.2 U	0.72 U	1.4 U	0.72 U
Dodecane, n-	1.4 J	1.2 J	0.79 J	0.49 J	0.56 J	3.5 U	3.5 U	2.8 U	2.8 U	6.9 J	8.6	170	400 J	15 J	2.8 UJ	0.70 J
Ethanol	0.68 J	1.9 U	2.7 U	1.0 J	0.58 J	4.7 U	4.7 U	3.8 U	3.8 U	5.1	22	3.5 J	5.1 J	6.5	5.0 U	0.64 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	4.6 U	9.2 U	0.92 U	1.8 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-28 4/24/2009	OU2SG-28 5/13/2009	OU2SG-28 6/16/2009	OU2SG-28 7/13/2009	OU2SG-28 8/12/2009	OU2SG-28 9/22/2009	OU2SG-28 10/14/2009	OU2SG-28 11/17/2009	OU2SG-28 12/28/2009	OU2SG-29 8/13/2008	OU2SG-29 9/23/2008	OU2SG-29 12/30/2008	OU2SG-29 3/13/2009	OU2SG-29 6/25/2009	OU2SG-29 9/25/2009	OU2SG-29 12/30/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	0.98 U	1.5	150	250	27	18	4.1
Heptane, n-	0.75 J	0.49 J	0.82 U	0.82 U	0.37 J	2.0 U	2.0 U	1.6 U	1.6 U	0.37 J	0.45 J	6.2	8.6 J	1.2	1.6 U	0.29 J
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	5.3 U	4.3 U	4.3 U	2.1 U	2.1 U	11 U	21 U	2.1 U	4.3 U	2.1 U
Hexane, n-	1.1	0.70	0.18 J	0.70 U	0.32 J	1.8 U	1.8 U	1.4 U	1.4 U	0.70 U	0.70 U	3.5 U	7.0 U	0.49 J	1.4 U	0.70 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	0.82 U	4.1 U	8.2 U	0.82 U	1.6 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 UJ	0.97 U	0.97 U	2.4 U	2.4 U	1.9 U	1.9 U	0.97 U	0.72 J	49	120	0.97 U	6.3	2.0
Indene	0.95 U	0.95 U	0.95 UJ	0.95 U	0.95 U	2.4 U	2.4 U	1.9 U	1.9 U	0.95 U	0.95 U	4.8 U	9.5 U	0.95 U	1.9 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 U	0.72 U	0.72 U	3.6 U	7.2 U	0.72 U	1.4 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	0.82 U	4.1 U	8.2 U	0.82 U	1.6 U	0.82 U
Methylene chloride	1.7 U	1.5 J	1.7 U	1.7 U	1.1 J	4.3 U	4.3 U	3.5 U	3.5 U	0.69 UJ	0.69 U	8.5 U	17 U	1.2 J	3.5 U	0.62 J
Methylnaphthalene, 1-	14 UJ	1.2 U	1.2 U	0.74 J	1.2 UJ	2.9 U	2.9 U	2.3 U	2.3 U	1.2 U	1.2 U	29 UJ	14	1.2 UJ	2.3 UJ	1.2 U
Methylnaphthalene, 2-	14 UJ	1.2 U	1.2 U	0.67 J	1.2 UJ	2.9 U	2.9 U	2.3 UJ	2.3 U	1.2 U	1.2 U	29 U	18	2.4 J	2.3 U	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U	4.0 U	8.0 U	2.0 U	1.6 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U	4.0 U	8.0 U	0.80 U	1.6 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	0.53 J	0.42 J	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U	5.2 U	10 U	1.0 U	2.1 U	1.0 U
Nonane	0.46 J	1.0 U	1.0 U	1.0 U	0.52 J	2.6 U	2.6 U	2.1 U	2.1 U	0.31 J	14	1700	2400	72	22 J	27
Octane, n-	0.56 J	0.28 J	0.93 U	0.93 U	0.93 UJ	2.3 U	2.3 U	1.9 U	1.9 U	0.44 J	140	270	390	13	3.4	5.0
Pentane	2.0	1.1	0.47 J	0.26 J	0.41 J	1.5 U	1.5 U	1.2 U	1.2 U	0.77 J	0.59 U	3.0 U	5.9 U	0.86	1.2 U	0.41 J
Propanol, 2-	0.64 U	1.2 U	1.2 U	1.2 U	1.2 U	6.9 U	3.0 U	2.5 U	2.5 U	0.49 U	0.49 U	6.1 U	12 U	1.2 U	1.3 J	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	2.1 U	2.1 U	1.7 U	1.7 U	0.85 U	0.21 J	4.3 U	8.5 U	0.85 U	1.7 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	0.27 J	0.61 U	0.61 U	1.5 U	1.5 U	1.2 U	1.2 U	0.61 UJ	0.70	3.0 U	15 U	0.51 J	0.55 J	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	3.4 U	2.7 U	2.7 U	1.4 U	1.4 U	6.9 U	14 U	1.4 U	2.7 U	1.4 U
Tetrachloroethene	0.79 J	0.95 J	1.6	2.4	1.8	2.0 J	1.2 J	0.95 J	2.7 U	13 J	4.5	6.8 U	14 U	3.8	3.0	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	5.5 U	1.1 U	1.1 U	0.47 J	1.1 U	2.7 UJ	2.7 U	2.2 UJ	2.2 U	1.1 U	1.2	140 J	280	16 J	14	0.82 J
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U	1.4 U	0.69 U	0.69 U	3.4 U	6.9 U	0.69 U	1.4 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U	4.0 U	7.9 U	0.79 U	1.6 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.80 J	0.69 J	1.0 J	0.65 J	0.54 J	3.8 U	3.8 U	3.1 U	3.1 U	0.54 J	0.61 J	7.7 U	15 U	0.61 J	3.1 U	0.46 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.7 U	3.0 U	3.0 U	1.5 U	1.5 U	7.4 U	15 U	1.5 U	3.0 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	0.30 J	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U	5.4 U	11 U	1.1 U	2.2 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U	5.4 U	11 U	1.1 U	2.2 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U	5.4 U	11 U	1.1 U	2.2 U	1.1 U
Trichlorofluoromethane	1.8	2.4	2.0	2.6	2.2	3.0	2.4 J	2.2	1.8 J	1.5 J	3.0	5.6 U	11 U	2.5	3.0 J	1.0 J
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	0.98 U	2.0	310	770	9.5	17 J	3.8
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	0.29 J	4.9	240	440	22 J	21	3.0
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	0.98 U	1.9	190	390	16	20	5.3
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	2.3 U	1.9 U	1.9 U	0.28 J	0.61 J	4.7 U	9.3 U	0.93 U	1.9 U	0.93 U
Undecane, n-	0.59 J	1.3 U	1.3 U	1.3 U	1.3 U	3.2 U	3.2 U	2.6 U	2.6 U	1.3 U	6.8	740	1000	1.3 UJ	2.6 UJ	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	2.2 U	1.8 U	1.8 U	0.87 U	0.87 U	4.4 U	8.7 U	0.87 U	1.8 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.3 U	1.0 U	1.0 U	0.51 U	0.51 U	2.6 U	5.1 U	0.51 U	1.0 U	0.51 U
Other (%)																
Carbon Dioxide	2.31	3.2	4.43	5.42	5.4	4.07	4.21	3.37	1.93	NA	NA	NA	NA	NA	NA	NA
Helium	0.0214	0.0182 U	0.0196	0.094	0.00409 U	0.0167 U	0.00317 U	0.0156 U	0.015 U	0.0195 U	0.0142 U	0.0222	0.0197 U	0.02	0.0033 U	0.0176 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-30	OU2SG-30	OU2SG-30	OU2SG-30	OU2SG-30	OU2SG-30	OU2SG-30	OU2SG-31	OU2SG-31A	OU2SG-31P	OU2SG-31A	OU2SG-31P	OU2SG-31	OU2SG-31	OU2SG-31	OU2SG-31
Sample Date:	8/13/2008	9/23/2008	12/30/2008	3/13/2009	6/25/2009	9/25/2009	12/30/2009	3/19/2009	3/31/2009	3/31/2009	4/1/2009	4/1/2009	4/2/2009	4/3/2009	4/4/2009	4/5/2009
BTEX (ug/m3)																
Benzene	3.2 U	0.64 U	0.64 U	0.64 U	0.64 U	1.3 U	1.3 U	0.64 U	0.43 J	0.64 U	0.64 U	0.64 U	0.64 U	0.22 J	1.3	0.64 U
Toluene	3.8 U	1.2 J	1.2	1.2	1.5	1.4 J	1.5 U	1.1	6.0	1.0	0.84	0.72 J	0.80	1.4	2.20	1.1
Ethylbenzene	4.3 U	1.1 J	1.3	1.2	1.1	1.7 U	1.7 U	0.27 J	0.92 J	0.23 J	0.87 U	0.87 U	0.87 U	0.25 J	4.4	0.27 J
Xylene, m,p-	8.7 U	6.1 J	6.1	5.8	2.6	3.5 U	3.5 U	0.93 J	3.0	0.71 J	0.57 J	0.58 J	0.58 J	0.82 J	6.8	0.80 J
Xylene, o-	4.3 U	2.5 J	3.0	2.6	1.2	1.7 U	1.7 U	0.25 J	0.88	0.25 J	0.87 U	0.87 U	0.87 U	0.25 J	2.4	0.26 J
Other VOCs (ug/m3)																
Acetaldehyde	37 J	22 J	6.5	5.3	2.7 J	9.0 U	9.0 U	2.1 U	4.5 U	1.8 UJ	1.8 U	3.6 U	4.3 U	3.6 U	3.6 UJ	3.5 J
Acetone	6.5 UJ	2.8 J	7.8	2.8 U	6.0 U	6.5 UJ	1.3 J	2.4 U	16 J	4.6 J	3.6 U	4.1 U	4.3 U	5.2 U	1.8 UJ	4.8 J
Acrolein (propenal)	2.3 U	0.46 U	0.46 U	0.46 U	1.2 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	2.7	0.46 U
Allyl chloride	3.1 U	0.63 U	0.63 U	0.63 U	0.63 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	5.5 U	1.1 U	1.1 UJ	1.1 U	4.0	2.2 U	2.2 U	1.1 U	2.7 U	2.7 U	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
Bromodichloromethane	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	10 U	2.1 U	2.1 U	2.1 U	2.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.88 U	0.88 U	0.44 U	0.44 UJ	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	7.0	0.48 U	0.48 U	0.48 U	0.48 U	0.95 U	0.95 U	0.41 J	0.48 U	0.54	0.28 J	0.30 J	0.42 J	1.1	2.8	0.67
Butanone, 2-	1.2 J	0.97 J	1.4	0.57 J	0.44 J	0.77 J	1.2 U	0.64	3.3	1.2	0.93	0.98	1.0	1.2	3.6	0.93
Carbon disulfide	3.0 U	0.75 J	0.45 J	0.63 U	1.8	1.2 U	1.2 U	0.31 J	31	0.62 U	6.0	4.4	7.2	6.5	2.9	5.8
Carbon tetrachloride	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	2.6 U	0.53 U	0.53 U	0.53 U	0.53 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	6.3	3.6 J	1.5	1.4	1.6	1.2 J	2.0 U	6.7	5.8	5.8	6.3	5.7	5.8	5.8	2.9	6.1
Chloromethane	2.1 U	0.12 J	0.20 J	0.11 J	0.12 J	0.83 U	0.83 U	0.41 U	0.41 U	0.41 U	0.12 J	0.11 J	0.15 J	0.15 J	0.75	0.11 J
Chlorotoluene, 2-	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.47 J	5.0
Decane, n-	16	12 J	4.8	2.4	0.81 J	2.3 U	2.3 U	0.97 J	2.7	1.0 J	0.63 J	0.69 J	0.81 J	0.94 J	16	1.0 J
Dibromochloromethane	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	3.5 J	3.5 J	2.6	1.9	2.2	1.5 J	2.6	2.5	2.6	2.6	2.9	2.7	2.9	2.9	2.7	2.7
Dichloroethane, 1,1-	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	8.4	5.0 J	2.4 J	1.5 J	2.2	0.84 J	2.8 UJ	1.6 J	1.5 J	0.80 J	0.96 J	1.0 J	0.98 J	1.4	2.3	2.3
Ethanol	13	4.0 J	1.2 J	1.4 J	1.3 J	3.8 U	5.0	6.4	16	7.4	5.1	6.5	5.3	4.5	18	3.1
Ethylthiophene, 2-	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-30 8/13/2008	OU2SG-30 9/23/2008	OU2SG-30 12/30/2008	OU2SG-30 3/13/2009	OU2SG-30 6/25/2009	OU2SG-30 9/25/2009	OU2SG-30 12/30/2009	OU2SG-31 3/19/2009	OU2SG-31A 3/31/2009	OU2SG-31P 3/31/2009	OU2SG-31A 4/1/2009	OU2SG-31P 4/1/2009	OU2SG-31 4/2/2009	OU2SG-31 4/3/2009	OU2SG-31 4/4/2009	OU2SG-31 4/5/2009
Ethyltoluene, p-	4.9 U	1.1 J	1.5	1.7	0.84 J	2.0 U	2.0 U	0.98 U	0.28 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	4.1 U	0.82 U	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	0.29 J	2.8	0.89	2.1	0.61 J	0.82 U	1.9	3.3	1.4
Hexachlorobutadiene	11 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	3.5 U	0.70 U	0.70 U	0.70 U	0.70 U	1.4 U	1.4 U	0.70 U	0.22 J	0.70 U	0.70 U	0.70 U	0.70 U	0.54 J	2.1	0.98
Hexanone, 2-	4.1 U	0.82 U	0.82 U	0.82 U	0.82 U	1.6 U	1.6 U	0.82 U	2.0 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	4.8 U	0.68 J	1.4	1.5	14	1.9 U	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	4.8 U	0.95 U	0.95 U	0.95 U	1.1	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	4.1 U	0.82 U	0.82 U	0.82 UJ	0.82 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	2.4 UJ	0.69 U	1.7 U	1.7 U	0.45 J	3.5 U	3.5 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	2.4 U	10	1.7 U
Methylnaphthalene, 1-	5.8 U	1.2 U	1.1 J	0.45 J	3.8 J	2.3 UJ	2.3 U	1.2 U	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methylnaphthalene, 2-	5.8 U	1.2 U	1.1 J	1.2 U	5.6 J	2.3 U	2.3 U	1.2 U	2.9 UJ	2.9 UJ	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U
Methylthiophene, 2-	4.0 U	0.80 U	0.80 U	0.80 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	5.2 U	0.31 J	0.51 J	0.63 J	52	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.56 J
Nonane	5.2 U	8.0 J	3.8	3.6	1.0 U	2.1 U	2.1 U	0.30 J	0.90 J	0.28 J	1.0 U	1.0 U	1.0 U	0.33 J	11	1.0 UJ
Octane, n-	70	7.9 J	0.53 J	0.79 J	0.93 U	1.9 U	1.9 U	0.93 U	0.53 J	0.93 U	0.93 U	0.93 U	0.93 U	0.41 J	1.5	0.26 J
Pentane	3.0 U	0.59 U	0.59 U	0.59 U	0.59 U	1.2 U	1.2 U	0.45 J	0.29 J	0.62	0.59 U	0.24 J	0.25 J	0.83	2100	1.2
Propanol, 2-	2.4 U	0.49 U	0.49 U	1.2 UJ	1.2 U	2.0 J	2.5 U	1.2 U	2.4	1.2 J	1.1	1.1	0.73	0.77 U	13	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	4.3 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	0.85 U	0.34 J	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	5.3	0.85 U
t-Butyl alcohol	3.0 UJ	0.61 U	0.61 U	1.5 U	0.21 J	1.2	1.2 U	0.25 J	0.20 J	0.61 U	0.31 J	0.31 J	0.22 J	0.20 J	0.51 J	0.24 J
Tetrachloroethane, 1,1,2,2-	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	48	52 J	5.8	3.5	26	29	3.9	0.43 J	0.64 J	1.4 U	0.50 J	0.40 J	0.45 J	0.56 J	4.4	0.72 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	5.5 U	1.8 J	3.6	5.9	9.4 J	2.2 U	2.2 U	1.1 U	0.43 J	2.7 U	5.5 U	5.5 U	1.0 J	0.71 J	0.87 J	0.38 J
Thiophene	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.45 J	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	7.7 U	1.0 J	0.62 J	1.5 U	0.92 J	0.92 J	3.1 U	0.48 J	0.46 J	0.47 J	0.54 J	0.59 J	0.54 J	0.57 J	0.54 J	0.64 J
Trichlorobenzene, 1,2,4-	7.4 U	1.5 U	1.5 UJ	1.5 U	0.44 J	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	5.4 U	1.5 J	0.53 J	1.1 U	0.98 J	1.5 J	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.38 J	1.1 U
Trichlorofluoromethane	2.5 J	2.6 J	2.7	1.7	3.3	2.9 J	2.8	1.9	2.0	2.0	2.3	2.2	2.1	2.1	1.9	2.4
Trimethylbenzene, 1,2,3-	4.9 U	2.2 J	6.6	7.6	2.4	2.0 U	2.0 U	0.39 J	0.38 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.57 J	0.98 U
Trimethylbenzene, 1,2,4-	4.9 U	5.9 J	3.9 J	3.4	1.0 J	2.0 U	2.0 U	0.98 U	0.92 J	0.30 J	0.98 U	0.26 J	0.29 J	0.33 J	1.1	0.38 J
Trimethylbenzene, 1,3,5-	4.9 U	2.0 J	5.1	4.8	0.69 J	2.0 U	2.0 U	0.98 U	0.26 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.47 J	0.98 U
Trimethylpentane, 2,2,4-	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.76 J	0.93 U
Undecane, n-	6.4 U	6.5 J	2.2	1.2 J	0.57 J	2.6 U	2.6 U	0.80 J	1.3	0.66 J	0.51 J	0.49 J	0.56 J	0.68 J	6.1	1.2 J
Vinyl bromide	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	0.632	0.495	2.56	2.49	2.61	2.58	1.61	2.69
Helium	0.0189 U	0.0171 U	0.0196	0.031 U	0.025	0.00344 U	0.0153 U	0.037	0.0156 U	0.0179 U	0.018	0.0164	0.0169	0.0176	0.0166	0.02

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-31 4/6/2009	OU2SG-31 4/10/2009	OU2SG-31 4/17/2009	OU2SG-31 4/24/2009	OU2SG-31 5/13/2009	OU2SG-31 6/16/2009	OU2SG-31 7/13/2009	OU2SG-31 8/10/2009	OU2SG-31 9/22/2009	OU2SG-31 10/14/2009	OU2SG-31 11/17/2009	OU2SG-31 12/28/2009	OU2SG-32 3/18/2009	OU2SG-32A 3/31/2009	OU2SG-32P 3/31/2009	OU2SG-32A 4/1/2009
BTEX (ug/m3)																
Benzene	0.64 U	0.64 U	0.18 J	0.22 J	0.64 U	0.64 U	0.88 J	0.48 J	1.6 U	1.6 U	1.3 U	1.3 U	8.5	0.64 U	0.64 U	0.64 U
Toluene	0.94	1.2	1.9	3.8	8.0	8.0	24 J	12	8.8	7.0	1.5 U	0.83 J	3.1	1.1	0.20 J	0.38 J
Ethylbenzene	0.26 J	0.30 J	0.35 J	0.57 J	1.2	0.88	3.2 J	1.4	0.98 J	0.65 J	1.7 U	1.7 U	3.6	0.87 U	0.87 U	0.87 U
Xylene, m,p-	1.0 J	1.2 J	1.2 J	1.9	3.6	2.8	10 J	3.0	1.8 J	1.2 J	3.5 U	3.5 U	2.7	0.85 J	1.7 U	1.7 U
Xylene, o-	0.26 J	0.30 J	0.29 J	0.57 J	1.1	0.89	3.3 J	1.5	1.1 J	0.98 J	1.7 U	1.7 U	2.0	0.87 U	0.87 U	0.87 U
Other VOCs (ug/m3)																
Acetaldehyde	3.6 U	3.6 UJ	4.5 UJ	4.5 UJ	4.5 UJ	5.2 U	19 J	10	7.3 U	2.5 U	9.0 U	9.0 U	1.8 UJ	1.8 UJ	2.1 U	1.8 U
Acetone	7.5 J	1.8 UJ	1.8 U	1.8 UJ	3.6 U	4.5 U	18 J	6.5 U	4.4 U	4.5 U	1.5 J	2.2 J	1.8 UJ	3.1 J	1.8 U	2.1 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 UJ	0.46 U	1.2 U	0.45 J	0.33 J	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.6 U	1.6 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	14 UJ	14 UJ	14 U	14 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	2.7 U	2.7 U	2.2 UJ	2.2 U	1.1 U	2.7 U	2.7 U	14 UJ
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.4 U	3.4 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	5.2 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.9 U	1.9 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	1.1 U	0.88 U	0.88 U	0.26 J	0.44 UJ	0.44 UJ	0.44 U
Butane	1.2	2.6	6.4	6.1	0.76	0.48	0.65 J	0.69	1.2 U	1.2 U	0.95 U	0.62 J	61	0.95	0.44 J	0.39 J
Butanone, 2-	0.74	0.91	1.0	1.9	0.74	0.56 J	4.5 J	1.4	1.5 U	1.5 U	1.2 U	1.2 U	3.2	0.59 U	0.59 U	0.42 J
Carbon disulfide	8.7	9.8	28	48	94	78	79 J	8.0	5.9	4.0	1.5	0.62 J	8.5	0.62 U	0.62 U	1.9
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	3.1 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	1.3 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	6.7	6.2	6.8	5.8	5.3	5.4	7.3 J	9.3	4.0	3.3	2.2	1.4 J	44	8.1	7.4	6.7
Chloromethane	0.10 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.21 J	1.0 U	1.0 U	0.83 U	0.83 U	0.53	0.36 J	0.41 U	0.14 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.5 U	3.5 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	2.1	15	98	160	35	0.91	1.6 J	0.31 J	1.7 U	1.7 U	1.4 U	1.4 UJ	5.6	0.69 U	0.69 U	0.69 U
Decane, n-	0.70 J	0.76 J	0.91 J	2.0	2.9	1.2 U	1.2 UJ	3.9	2.9 U	2.9 U	2.3 U	2.3 U	29	0.34 J	1.2 U	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	4.3 U	4.3 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.8 U	3.8 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	0.54 J	0.46 J	1.0 J	0.60 J	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	0.36 J	0.33 J	0.76 J	1.2 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	0.30 J	0.31 J	0.61 J	0.30 J	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	2.9	2.9	3.2	2.8	1.5	1.4	3.3 J	2.5	3.2	2.8	3.1	3.0 J	2.9	2.7	2.5	2.5
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	1.2	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 UJ	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	1.2 J	1.0 J	1.2 J	2.8 J	4.6	0.63 J	2.4 J	3.3	1.2 J	3.5 U	2.8 U	2.8 U	6.0 J	0.38 J	3.5 U	0.36 J
Ethanol	2.0	2.7	4.4	5.3	6.2	4.6 U	12 J	4.2	2.6 J	1.8 J	3.8 U	3.8 U	1.3 J	6.6	3.5 J	3.4 J
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-31 4/6/2009	OU2SG-31 4/10/2009	OU2SG-31 4/17/2009	OU2SG-31 4/24/2009	OU2SG-31 5/13/2009	OU2SG-31 6/16/2009	OU2SG-31 7/13/2009	OU2SG-31 8/10/2009	OU2SG-31 9/22/2009	OU2SG-31 10/14/2009	OU2SG-31 11/17/2009	OU2SG-31 12/28/2009	OU2SG-32 3/18/2009	OU2SG-32A 3/31/2009	OU2SG-32P 3/31/2009	OU2SG-32A 4/1/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.49 J	0.39 J	1.4 J	0.64 J	2.5 U	2.5 U	2.0 U	2.0 U	2.4	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	1.1	0.49 J	0.82 U	0.82 U	0.82 U	1.4 J	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	8.1 J	3.2	0.63 J	0.66 J
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	5.3 U	4.3 U	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	2.9	9.1	13	4.6	0.88	0.38 J	1.1 J	0.35 J	1.8 U	1.8 U	1.4 U	1.4 U	12	0.29 J	0.70 U	0.70 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.7 J	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	2.0 U	2.0 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.39 J	0.36 J	1.3 J	0.72 J	2.4 U	2.4 U	1.9 U	1.9 U	3.2	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	2.4 U	2.4 U	1.9 U	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	1.7 U	1.7 U	1.7 U	2.8 U	0.59 J	1.7 U	1.7 UJ	0.52 J	4.3 U	4.3 U	3.5 U	3.5 U	1.8 U	1.7 U	1.7 U	1.7 U
Methylnaphthalene, 1-	5.8 U	5.8 U	14 U	14 UJ	1.2 U	1.2 U	0.46 J	1.2 U	2.9 U	2.9 U	2.3 U	2.3 U	1.2 U	2.9 UJ	2.9 UJ	5.8 U
Methylnaphthalene, 2-	5.8 U	5.8 U	14 U	14 UJ	1.2 U	1.2 U	0.96 J	1.2 U	2.9 U	2.9 U	2.3 UJ	2.3 U	1.2 U	2.9 UJ	2.9 UJ	5.8 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	0.94 J	0.69 J	1.6 J	1.0 J	2.6 U	2.6 U	2.1 U	2.1 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Nonane	1.0 U	1.0 U	0.34 J	0.62 J	0.63 J	1.0 U	0.88 J	0.37 J	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U
Octane, n-	0.93 U	0.93 U	0.37 J	0.42 J	0.37 J	0.93 U	0.51 J	0.93 U	2.3 U	2.3 U	1.9 U	1.9 U	29	0.93 U	0.93 U	0.93 U
Pentane	3.0	8.4	22	20	1.7	0.57 J	0.57 J	0.71	1.5 U	1.5 U	1.2 U	0.35 J	44	3.0	0.35 J	0.37 J
Propanol, 2-	0.49 U	0.49 U	0.60	1.0 U	1.2 U	1.2 U	0.54 J	0.54 U	3.0 U	3.0 U	2.5 U	2.5 U	1.2 UJ	1.0 J	1.2 U	1.7
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.23 J	0.43 J	0.34 J	1.3 J	0.64 J	2.1 U	2.1 U	1.7 U	1.7 U	0.90	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.24 J	0.61 U	0.61 U	0.18 J	0.39 J	0.44 J	0.65 J	0.61 U	1.5 U	1.5 U	1.2 U	1.2 U	0.45 J	0.61 U	0.61 U	0.32 J
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	3.4 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	0.61 J	0.61 J	0.68 J	0.70 J	1.3 J	1.7 U	4.1 J	3.8	2.7 J	1.9 J	1.2 J	2.7 U	0.62 J	1.0 J	0.54 J	0.34 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.60 J	5.5 U	5.5 U	5.5 U	0.77 J	0.69 J	2.1 J	1.3 J	0.96 J	0.82 J	2.2 UJ	2.2 U	24	0.50 J	2.7 U	5.5 U
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.7 U	1.7 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.61 J	0.61 J	0.70 J	0.57 J	0.69 J	0.65 J	0.70 J	0.54 J	3.8 U	3.8 U	3.1 U	3.1 U	0.54 J	0.52 J	0.51 J	0.68 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.7 U	3.7 U	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.43 J	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.54 J	2.7 U	2.7 U	2.2 U	2.2 U	0.54 J	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	2.4	2.3	2.4	2.1	2.5	2.5	3.9 J	4.2	4.6	3.5	2.8	2.0 J	2.9	3.1	2.9	3.2
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.37 J	0.79 J	0.66 J	2.4 J	1.3	0.74 J	0.74 J	2.0 U	2.0 U	2.0	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.25 J	0.30 J	0.76 J	1.7	1.5	4.0 J	2.2	1.5 J	1.4 J	2.0 U	2.0 U	15	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.49 J	0.34 J	1.3 J	0.98 U	2.5 U	2.5 U	2.0 U	2.0 U	13	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	2.3 U	2.3 U	1.9 U	1.9 U	0.93 UJ	0.93 U	0.93 U	0.93 U
Undecane, n-	0.77 J	0.70 J	0.79 J	1.7	1.3 U	1.3 U	1.3 UJ	1.3 UJ	3.2 U	3.2 U	2.6 U	2.6 U	9.7	0.53 J	1.3 U	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	2.2 U	2.2 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.3 U	1.3 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	2.75	2.7	2.72	2.6	4.03	4.38	8.35	10.1	9.03	8.17	7	3.83	NA	0.395	0.42	2.36
Helium	0.0153	NA	0.0178	0.0183	0.0176 U	0.052	0.0238 U	0.0201 U	0.21	0.00336 U	0.015 U	0.0152 U	0.0177 U	0.0192 U	0.0183 U	0.016

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-32P	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32	OU2SG-32
Sample Date:	4/1/2009	4/2/2009	4/3/2009	4/4/2009	4/5/2009	4/6/2009	4/10/2009	4/17/2009	4/24/2009	5/13/2009	6/16/2009	7/13/2009	8/10/2009	9/22/2009	10/14/2009	11/17/2009	
BTEX (ug/m3)																	
Benzene	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.20 J	0.23 J	0.34 J	0.64 U	0.75 U	6.4 U	0.64 U	1.6 U	1.6 U	1.3 U	
Toluene	0.21 J	0.73 J	0.98	1.0	1.0	0.98	1.8	1.7	2.7	5.4	6.9	13	2.0	0.85 J	0.66 J	1.5 U	
Ethylbenzene	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.30 J	0.33 J	0.37 J	0.50 J	0.78 J	1.0	8.7 U	1.0	2.2 U	2.2 U	1.7 U	
Xylene, m,p-	1.7 U	0.48 J	0.51 J	0.55 J	0.61 J	1.1 J	1.0 J	1.1 J	1.5 J	2.5	1.8	4.5 J	1.8	4.3 U	4.3 U	3.5 U	
Xylene, o-	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.30 J	0.32 J	0.36 J	0.49 J	0.91	1.1	8.7 U	1.2	2.2 U	2.2 U	1.7 U	
Other VOCs (ug/m3)																	
Acetaldehyde	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	1.6 U	3.6 U	4.5 U	4.5 U	4.5 UJ	4.5 UJ	45 U	6.6 U	4.5 UJ	4.5 UJ	9.0 UJ	
Acetone	1.8 U	2.8 U	1.9 U	2.5 U	2.4 J	2.2	2.7 U	3.7 J	5.5	3.0 U	4.2 U	12 J	4.9 U	3.6 U	5.2 U	3.6 UJ	
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	1.2 U	0.38 J	11 U	1.2 U	2.9 U	2.9 U	2.3 U	
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U	0.63 U	1.6 U	1.6 U	1.2 U	
Benzo[thiophene]	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	1.1 U	1.1 U	11 UJ	1.1 UJ	2.7 U	2.7 U	2.2 UJ	
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U	3.4 U	3.4 U	2.7 U	
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U	5.2 U	5.2 U	4.1 U	
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U	0.78 U	1.9 U	1.9 U	1.6 U	
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	0.44 U	1.1 U	1.1 U	0.88 U	
Butane	0.58	0.42 J	0.85	0.43 J	0.67	0.36 J	0.33 J	0.45 J	0.40 J	0.48 U	1.0	4.8 U	0.33 J	1.8	1.9	1.70	
Butanone, 2-	0.32 J	0.62	0.42 J	0.55 J	0.62	0.65	0.65	0.80	0.79	0.50 J	1.0	5.9 U	0.74	1.5 U	1.5 U	1.2 U	
Carbon disulfide	0.62 U	1.5	3.2	4.2	4.8	5.4	9.9	9.2	16	35	23	170 J	9.0	1.9	1.0 J	0.75 J	
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U	3.1 U	3.1 U	2.5 U	
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	2.3 U	2.3 U	1.8 U	
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	5.3 U	0.53 U	1.3 U	1.3 U	1.0 U	
Chloroform	6.8	6.4	6.1	6.0	6.2	6.0	4.8	4.6	11	2.8	2.5	3.4 J	4.0	4.2	1.6 J	1.6	
Chloromethane	0.12 J	0.13 J	0.41 U	0.41 U	0.10 J	0.41 U	0.12 J	0.12 J	0.41 U	0.41 U	0.41 U	4.1 U	0.41 U	1.0 U	1.0 U	0.83 U	
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	2.6 U	2.6 U	2.1 U	
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	14 U	1.4 U	3.5 U	3.5 U	2.8 U	
Cyclohexane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.18 J	6.9 U	0.21 J	1.7 U	1.7 U	1.4 U	
Decane, n-	1.2 U	0.33 J	0.48 J	0.42 J	0.47 J	0.47 J	0.58 J	0.69 J	1.2	1.2 UJ	1.2 U	12 U	5.0	2.9 U	2.9 U	2.3 U	
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	17 U	1.7 U	4.3 U	4.3 U	3.4 U	
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	3.8 U	3.8 U	3.1 U	
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U	3.0 U	3.0 U	2.4 U	
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U	3.0 U	3.0 U	2.4 U	
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31 J	12 U	1.2 U	3.0 U	3.0 U	2.4 U	
Dichlorodifluoromethane	2.5	2.6	2.5	2.8	2.7	2.7	2.6	2.8	2.7	1.1	0.98 J	3.2 J	2.6	3.2	3.3	2.9	
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U	0.81 U	2.0 U	2.0 U	1.6 U	
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U	0.81 U	2.0 U	2.0 U	1.6 U	
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	2.0 U	2.0 U	1.6 U	
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	2.0 U	2.0 U	1.6 U	
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	2.3 U	2.3 U	1.8 U	
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	2.3 U	2.3 U	1.8 U	
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	2.3 U	2.3 U	1.8 U	
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 UJ	7.2 U	0.72 U	1.8 U	1.8 U	1.4 U	
Dodecane, n-	0.37 J	1.0 J	0.50 J	0.46 J	0.42 J	0.49 J	0.49 J	0.72 J	1.2 J	1.5	3.8	5.4 J	1.4 U	3.0 J	3.5 U	1.5 J	
Ethanol	1.2 J	2.0	1.9	2.0	1.4 J	1.2 J	1.5 J	3.1	2.7	3.9	3.8 U	19 U	1.3 J	4.7 U	1.8 J	3.8 U	
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	2.3 U	2.3 U	1.8 U	

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-32P 4/1/2009	OU2SG-32 4/2/2009	OU2SG-32 4/3/2009	OU2SG-32 4/4/2009	OU2SG-32 4/5/2009	OU2SG-32 4/6/2009	OU2SG-32 4/10/2009	OU2SG-32 4/17/2009	OU2SG-32 4/24/2009	OU2SG-32 5/13/2009	OU2SG-32 6/16/2009	OU2SG-32 7/13/2009	OU2SG-32 8/10/2009	OU2SG-32 9/22/2009	OU2SG-32 10/14/2009	OU2SG-32 11/17/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.29 J	0.82 U	0.86	0.50 J	1.3	0.82 U	0.21 J	0.36 J	0.49 J	0.82 U	1.1	8.2 U	0.82 U	2.0 U	2.0 U	1.6 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.3 U	5.3 U	4.3 U
Hexane, n-	0.70 U	0.70 U	0.47 J	0.21 J	0.28 J	0.70 U	0.70 U	0.29 J	0.43 J	0.35 J	1.2	7.0 U	0.25 J	1.8 U	1.8 U	1.4 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.80 J	8.2 U	0.82 U	2.0 U	2.0 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.29 J	0.48 J	9.7 U	0.53 J	2.4 U	2.4 U	1.9 U
Indene	0.95 U	0.28 J	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	2.4 U	2.4 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.8 U	1.8 U	1.4 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.44 J	0.82 U	0.82 U	8.2 U	0.82 U	2.0 U	1.6 U
Methylene chloride	1.7 U	2.1 U	2.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	12	0.90 J	1.7 U	17 UJ	1.7 U	4.3 U	4.3 U	3.5 U
Methylnaphthalene, 1-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 UJ	1.2 U	1.2 U	12 UJ	1.2 U	2.9 U	2.9 U	2.3 U
Methylnaphthalene, 2-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	14 U	14 UJ	1.2 U	1.2 U	12 U	1.2 U	2.9 U	2.9 U	2.3 UJ
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	2.0 U	2.0 U	1.6 U
Naphthalene	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 J	0.74 J	3.5 J	0.37 J	2.6 U	2.6 U	2.1 U
Nonane	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	0.27 J	0.47 J	1.0 U	0.77 J	10 U	2.6 U	2.6 U	2.1 U
Octane, n-	0.93 U	0.93 U	0.36 J	0.93 U	0.23 J	0.23 J	0.24 J	0.26 J	0.35 J	0.93 U	1.1	9.3 U	0.93 U	2.3 U	2.3 U	1.9 U
Pentane	0.36 J	0.42 J	0.63	0.43 J	0.47 J	0.32 J	0.34 J	0.39 J	0.39 J	0.32 J	1.1	5.9 U	0.29 J	1.5 U	1.5 U	3.5
Propanol, 2-	0.94	1.2	0.81 U	0.67 U	0.66	0.76	0.70 B	1.0	0.93 U	1.2 U	1.7 U	12 U	1.6 U	3.0 U	4.2 U	2.5 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.60 J	0.55 J	8.5 U	0.43 J	2.1 U	2.1 U	1.7 U
t-Butyl alcohol	0.33 J	0.29 J	0.30 J	0.22 J	0.21 J	0.21 J	0.21 J	0.21 J	0.61 U	0.61 U	0.61 U	6.1 U	0.61 U	1.5 U	1.5 U	1.2 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.4 U	3.4 U	2.7 U
Tetrachloroethene	0.35 J	0.42 J	0.40 J	0.46 J	0.54 J	0.61 J	0.47 J	0.51 J	0.69 J	1.1 J	2.0 U	14 U	2.6	2.2 J	1.5 J	1.2 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.61 J	5.5 U	5.5 U	5.5 U	0.71 J	5.5 U	5.5 U	5.5 U	5.5 U	0.55 J	0.98 J	11 UJ	1.8 J	2.7 UJ	2.7 U	2.2 UJ
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	6.9 U	0.69 U	1.7 U	1.7 U	1.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	2.0 U	2.0 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.64 J	0.60 J	0.60 J	0.65 J	0.61 J	0.69 J	0.90 J	0.74 J	0.70 J	0.77 J	0.58 J	15 U	0.54 J	3.8 U	3.8 U	3.1 U
Trichlorobenzene, 1,2,4-	1.5 U	0.47 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	3.7 U	3.7 U	3.0 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	2.7 U	2.7 U	2.2 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	2.7 U	2.7 U	2.2 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	2.7 U	2.7 U	2.2 U
Trichlorofluoromethane	3.2	3.5	3.9	4.8	4.1	4.5	4.4	3.4	6.2	13	20	44	36	20	11	3.3
Trimethylbenzene, 1,2,3-	0.98 U	0.29 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.29 J	0.59 J	1.0	9.8 U	1.6	2.5 U	2.5 U	2.0 U
Trimethylbenzene, 1,2,4-	0.98 U	0.32 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.33 J	0.40 J	0.66 J	1.5	1.9	1.0	2.5 U	2.5 U	2.0 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.44 J	0.44 J	9.8 U	9.8 U	2.5 U	2.5 U	2.0 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	9.3 U	0.93 U	2.3 U	2.3 U	1.9 U
Undecane, n-	1.3 U	0.44 J	0.34 J	1.3 U	1.3 U	0.51 J	0.44 J	0.77 J	1.1 J	1.3 U	1.3 U	30	1.3 UJ	3.2 U	3.2 U	2.6 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	8.7 U	0.87 U	2.2 U	2.2 U	1.8 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U	0.51 U	1.3 U	1.3 U	1.0 U
Other (%)																
Carbon Dioxide	2.34	2.43	2.51	2.74	2.71	2.74	2.9	2.8	3.31	5.75	8.58	12.6	12.3	8.26	8.54	9.85
Helium	0.0189	0.017	0.0192	0.0158	0.0181	0.017	0.0182	0.0169	0.016	0.0161 U	0.035	0.0178 U	0.0269 U	0.0162 U	0.00304 U	0.0156 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-32	OU2SG-33A	OU2SG-33P	OU2SG-33A	OU2SG-33P	OU2SG-33	OU2SG-33	OU2SG-33	OU2SG-33	OU2SG-33	OU2SG-34A	OU2SG-34P	OU2SG-34A	OU2SG-34P	OU2SG-34	OU2SG-34	OU2SG-34	
Sample Date:	12/28/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/18/2009	11/19/2009	11/20/2009	12/18/2009	12/18/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/18/2009	11/19/2009	11/20/2009	
BTEX (ug/m3)																		
Benzene	1.3 U	0.38 J	0.51 J	0.45 J	0.45 J	0.38 J	1.3 U	0.89 J	0.38 J	0.38 J	0.45 J	0.64 J	0.57 J	0.38 J	0.51 J	0.77 J		
Toluene	1.5 U	3.2	1.4 J	0.68 J	0.83 J	0.60 J	1.5 U	1.6	4.3	2.0	1.6	1.7	1.8	1.2 J	1.7	2.0		
Ethylbenzene	1.7 U	1.0 J	27	28	30	22	1.7 U	53	1.5 J	2.6	18	52	59	38	48	46		
Xylene, m,p-	3.5 U	3.0 J	86	75	86	61	1.2 J	180	4.8	8.2	56	140	160	94	110	110		
Xylene, o-	1.7 U	1.1 J	22	22	23	19	1.7 U	52	2.0	2.9	45	140	170	110	130	120		
Other VOCs (ug/m3)																		
Acetaldehyde	9.0 UJ	9.0 UJ	9.0 UJ	9.0 UJ	9.0 UJ	9.0 UJ	9.0 UJ	9.0 UJ	3.6 UJ	9.0 U	3.7 J	9.0 UJ	9.0 U	9.0 UJ	5.5 J	9.0 UJ		
Acetone	3.6 UJ	4.2	3.8	2.5 J	2.4 J	2.0 J	1.3 J	5.6 U	4.8 UJ	3.6	3.7	3.0 J	2.2 J	2.8 J	2.6 J	3.6 U		
Acrolein (propenal)	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U		
Allyl chloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
Benzothiophene	2.2 U	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ		
Bromodichloromethane	4.0	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.94 J	0.67 J	0.80 J	2.7 U	2.7 U	2.7 U	2.7 U		
Bromoform	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U		
Bromomethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U		
Butadiene, 1,3-	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U		
Butane	77	0.86 J	1.2	1.1	1.0	1.2	0.57 J	0.71 J	120	1.9	1.5	3.3	1.1	0.90 J	1.4	0.95		
Butanone, 2-	1.2 U	0.83 J	1.8	1.3	1.3	1.1 J	1.2 U	5.4	1.2 U	1.2 U	0.65 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U		
Carbon disulfide	0.81 J	1.2 UJ	1.2 U	0.68 J	0.31 J	0.81 J	1.2 U	1.2 U	1.2 U	1.2 U	0.68 J	0.87 J	0.68 J	0.68 J	0.68 J	1.2 U		
Carbon tetrachloride	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U		
Chlorobenzene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Chloroform	54	1.7 J	1.6 J	1.6 J	1.5 J	1.7 J	1.7 J	1.6 J	0.68 J	43	34	34	29	28	27	26		
Chloromethane	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U		
Chlorotoluene, 2-	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U		
Cryofluorane	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U		
Cyclohexane	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	15	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U		
Decane, n-	2.3 U	4.1	25	43	48	50	3.3	220	22	11	19	95	140	110	160	260		
Dibromochloromethane	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U		
Dibromoethane, 1,2-	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U		
Dichlorobenzene, 1,2-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U		
Dichlorobenzene, 1,3-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U		
Dichlorobenzene, 1,4-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U		
Dichlorodifluoromethane	3.4	3.2	3.2	3.3	2.9	3.0	3.3	3.2	3.1	2.8	2.3	2.8	2.5	2.8	2.8	2.4		
Dichloroethane, 1,1-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U		
Dichloroethane, 1,2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U		
Dichloroethene, 1,1-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U		
Dichloroethene, cis-1,2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U		
Dichloropropane, 1,2-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		
Dichloropropene, cis-1,3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		
Dichloropropene, trans-1,3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		
Dioxane, 1,4-	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U		
Dodecane, n-	0.70 J	3.1	7.4	12	24	24	5.4	76 J	12 J	1.2 J	2.8 U	5.4	15	11	26	44 J		
Ethanol	3.8 U	11	4.8	2.4 J	2.8 J	1.8 J	3.8 U	4.0	6.3	8.1	12	5.0	4.8	2.5 J	4.5	3.6 J		
Ethylthiophene, 2-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-32 12/28/2009	OU2SG-33A 11/16/2009	OU2SG-33P 11/16/2009	OU2SG-33A 11/17/2009	OU2SG-33P 11/17/2009	OU2SG-33 11/18/2009	OU2SG-33 11/19/2009	OU2SG-33 11/20/2009	OU2SG-33 12/18/2009	OU2SG-34A 11/16/2009	OU2SG-34P 11/16/2009	OU2SG-34A 11/17/2009	OU2SG-34P 11/17/2009	OU2SG-34 11/18/2009	OU2SG-34 11/19/2009	OU2SG-34 11/20/2009
Ethyltoluene, p-	2.0 U	2.0 U	2.0 U	2.0 U	0.59 J	0.49 J	2.0 U	1.1 J	2.0 U	2.0 U	0.88 J	2.6	3.8	3.0	3.6	3.7
Heptane, n-	1.6 U	0.49 J	3.8	2.4	4.0	1.8	1.6 U	4.3	1.6 U	0.66 J	2.3	15	10	7.4	8.4	9.6
Hexachlorobutadiene	4.3 U	4.3 UJ	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 UJ	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U
Hexane, n-	1.4 U	1.4 U	0.99 J	1.1 J	1.6	1.1 J	1.4 U	1.1 J	1.1 J	1.4 U	0.56 J	3.5	2.0	1.6	2.1	2.7
Hexanone, 2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	2.0	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.77 J	1.9 U	1.9 U	1.9 U	1.1 J	1.7 J	1.9 U	2.0	2.1
Indene	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl-2-pentanone, 4-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Methylene chloride	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Methylnaphthalene, 1-	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
Methylnaphthalene, 2-	2.3 U	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 U	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 U
Methylthiophene, 2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 UJ	1.6 U
Methylthiophene, 3-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Naphthalene	2.1 U	2.1 U	1.3 J	2.1 U	2.1 U	0.73 J	2.1 U	1.7 J	2.1 U	2.1 U	2.1 U	2.1 U	0.52 J	2.1 U	0.73 J	0.52 J
Nonane	2.1 U	2.2	15	15	18	16	0.94 J	90	2.4	16	25	72	82	45	48	74
Octane, n-	1.9 U	0.65 J	6.5	3.9	5.6	3.3	1.9 U	15	0.65 J	11	10	26	24	11	9.6	12
Pentane	4.1	4.8	9.3	9.5	8.9	5.1	2.6	7.7	320	8.8	6.2	18	7.6	6.8	9.7	7.8
Propanol, 2-	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.4 U	1.7 J	2.4 J	3.2	1.9 J	0.93 J	0.93 J	0.84 J
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.7 U	0.51 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	0.43 J
t-Butyl alcohol	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Tetrachloroethane, 1,1,2,2-	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Tetrachloroethene	0.81 J	6.5	6.8	6.5	6.9	7.7	13	9.6	7.4	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.2 U	2.2 UJ	2.2 UJ	2.2 UJ	2.2 UJ	0.77 J	2.2 UJ	1.3 J	2.2 U	2.2 UJ	2.2 UJ	2.2 UJ	1.1 J	1.1 J	1.9 J	2.5 J
Thiophene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Trans-1,2-dichloroethene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Trichlorobenzene, 1,2,4-	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethane, 1,1,1-	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Trichloroethane, 1,1,2-	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Trichloroethene	2.2 U	0.54 J	0.54 J	0.64 J	0.54 J	0.64 J	2.2 U	0.86 J	0.75 J	2.2 U	2.2 U	0.86 J	0.75 J	0.64 J	0.75 J	0.97 J
Trichlorofluoromethane	1.9 J	3.0	2.8	2.9	2.6	2.7	3.0	3.1	2.2	1.5 J	1.2 J	1.5 J	1.4 J	1.5 J	1.4 J	1.2 J
Trimethylbenzene, 1,2,3-	2.0 U	2.0 U	0.69 J	1.2 J	1.4 J	1.5 J	2.0 U	3.2	2.0 U	2.0 U	1.2 J	5.6	9.0	8.0	12	12
Trimethylbenzene, 1,2,4-	2.0 U	2.0 UJ	0.88 J	1.1 J	1.1 J	1.1 J	2.0 U	2.8	2.0 U	2.0 UJ	0.98 J	3.0	4.6	3.5	4.8	5.1
Trimethylbenzene, 1,3,5-	2.0 U	2.0 U	2.0 U	0.59 J	0.59 J	0.59 J	2.0 U	1.4 J	2.0 U	2.0 U	1.1 J	3.8	5.9	4.6	5.8	5.7
Trimethylpentane, 2,2,4-	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Undecane, n-	2.6 U	6.3 J	27 J	48 J	65 J	85 J	8.7 J	260 J	37	2.6 U	54 J	100 J	93 J	200 J	320 J	320 J
Vinyl bromide	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Other (%)																
Carbon Dioxide	5.69	2.98	2.81	2.85	2.9	2.87	2.84	3	3.15	2.72	2.6	2.67	2.67	2.63	2.63	2.72
Helium	0.0172 U	0.0141 U	0.0184 U	0.0177 U	0.0182 U	0.0164 U	0.0184 U	0.019 U	0.0158 U	0.0166 U	0.0176 U	0.0164 U	0.0177 U	0.0139 U	0.0158 U	0.069

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-34	OU2SG-35A	OU2SG-35P	OU2SG-35A	OU2SG-35P	OU2SG-35	OU2SG-35	Duplicate of: OU2SG-35	OU2SG-35	OU2SG-35	OU2SG-35	OU2SG-38	OU2SG-38A	OU2SG-38P	OU2SG-38A	OU2SG-38P
Sample Date:	12/18/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/18/2009	11/19/2009	11/19/2009	11/20/2009	12/18/2009	12/30/2008	1/20/2009	1/20/2009	1/20/2009	1/21/2009	1/21/2009
BTEX (ug/m3)																
Benzene	1.3 U	3.8	0.77 J	0.83 J	0.70 J	0.57 J	0.45 J	0.45 J	0.96 J	1.3 U	0.64 U	0.53 J	0.64 U	0.64 U	0.64 U	0.64 U
Toluene	1.5 U	3.3	8.8	7.6	6.2	3.6	3.0	2.9	6.0	1.5 U	0.78	1.6	0.49 J	0.63 J	0.85	
Ethylbenzene	1.7 U	3.4	240	310	280	160	120	110	180	1.9	0.24 J	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Xylene, m,p-	3.5 U	6.4	1100	1200	1100	550	380	330	560	6.0	0.80 J	0.56 J	0.35 J	0.39 J	0.46 J	
Xylene, o-	1.7 U	1.5 J	310	510	500	320	230	200	270	2.5	0.30 J	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Other VOCs (ug/m3)																
Acetaldehyde	3.6 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	9.0 U	3.6 U	4.0 J	1.8 U	1.8 U	3.2 U	1.8 U
Acetone	4.8 U	7.9	3.8	3.0 J	2.8 J	2.4 J	2.5 J	2.7 J	6.6 U	4.8 U	1.7 U	5.3 U	1.6 U	1.2 U	1.2 U	1.2 U
Acrolein (propenal)	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	0.46 U	0.13 J	0.46 U	0.46 U	0.46 U	0.46 U
Allyl chloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Bromodichloromethane	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromofom	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.81 J	0.81 J	0.86 J	1.2	0.95 U	0.48 J	0.62 J	0.71 J	1.8	0.71 J	0.48 U	4.7	0.62	1.7	2.5	
Butanone, 2-	1.2 U	1.5	1.0 J	1.0 J	1.1 J	1.0 J	1.2 U	0.94 J	4.8	1.2 U	0.59 U	1.2	0.59 U	0.59 U	0.59 U	0.59 U
Carbon disulfide	1.2 U	1.2 U	0.44 J	0.62 J	0.31 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.16 J	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Carbon tetrachloride	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	10	4.2	4.5	4.7	4.4	4.5	4.5	4.7	4.5	2.5	0.86 J	0.40 J	0.59 J	0.54 J	0.51 J	
Chloromethane	0.82 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.82 U	0.19 J	0.44	0.41 U	0.41 U	0.41 U
Chlorotoluene, 2-	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	2.1	3.3	
Decane, n-	2.3 U	1.7 J	200	420	590	700	740	660	1100	56	1.2	0.54 J	0.73 J	0.60 J	0.79 J	
Dibromochloromethane	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	2.4	2.9	2.7	2.8	2.3	2.8	2.4	2.7	2.7	2.4	2.9	3.0	3	3.2	2.8	
Dichloroethane, 1,1-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, 1,1-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	8.2 J	2.8 U	5.7	9.9	18	32	38 J	26 J	58 J	13 J	1.6 J	1.4 U	2.4	1.4 U	0.81 J	
Ethanol	3.8 U	13	5.9	3.7 J	15	2.9 J	2.2 J	2.1 J	3.8	3.8 U	7.2	6.6	3.3	2.9	5.0	
Ethylthiophene, 2-	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-34	OU2SG-35A	OU2SG-35P	OU2SG-35A	OU2SG-35P	OU2SG-35	OU2SG-35	Duplicate of:	OU2SG-35	OU2SG-35	OU2SG-35	OU2SG-38	OU2SG-38A	OU2SG-38P	OU2SG-38A	OU2SG-38P
Sample Date:	12/18/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/18/2009	11/19/2009	OU2SG-35	11/19/2009	11/20/2009	12/18/2009	12/30/2008	1/20/2009	1/20/2009	1/21/2009	1/21/2009
Ethyltoluene, p-	2.0 U	2.0 U	4.2	8.1	9.3	8.1	6.9	5.9	8.2	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	1.6 U	12	11	27	22	13	8.8	9.0	18	1.6 U	0.82 U	0.46 J	0.82 U	0.34 J	1.4	1.4
Hexachlorobutadiene	4.3 U	4.3 UJ	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	2.1 U	2.1 UJ	2.1 UJ	2.1 U	2.1 U
Hexane, n-	1.4 U	7.0	2.1	4.4	2.9	2.0	2.0	2.0	4.8	1.4 U	0.70 U	1.1	0.18 J	2.7	5.1	5.1
Hexanone, 2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	1.9 U	1.9 U	1.3 J	2.6	4.2	3.5	3.3	2.8	4.1	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.72 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	1.2 J	3.5 U	3.5 U	1.7 U	0.82 U	0.69 U	0.69 U	0.69 U	0.69 U
Methylnaphthalene, 1-	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	R	5.8 UJ	5.8 UJ	5.8 U	5.8 U	5.8 U
Methylnaphthalene, 2-	2.3 U	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 UJ	2.3 U	2.3 U	14 UJ	5.8 U	5.8 U	5.8 U	5.8 U
Methylthiophene, 2-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.1 U	2.1 U	2.1 U	2.1 U	0.63 J	1.2 J	1.0 J	0.63 J	1.5 J	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	2.1 U	9.0	320	550	640	530	450	440	800	6.7	0.37 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Octane, n-	1.9 U	15	94	180	160	92	71	67	120	1.0 J	0.28 J	0.55 J	0.37 J	0.93 U	0.93 U	0.93 U
Pentane	1.2	13	9.4	16	8.1	6.7	7.5	8.6	20	1.5	0.59 U	3.1	0.59 U	2.6	3.3	3.3
Propanol, 2-	2.4 U	4.0	1.6 J	1.2 J	1.2 J	1.1 J	0.84 J	0.74 J	1.7 J	2.4 U	0.88 UJ	1.2 U	1.2 U	1.2 U	1.2 U	2.5
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.7 U	1.7 U	0.68 J	0.77 J	0.77 J	0.51 J	1.7 U	1.7 U	0.68 J	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.42 J	0.48 J	1.2 U	0.97 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 J	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.89 J	0.73 J	1.1 J	1.0 J	0.86 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.2 U	2.2 UJ	2.2 UJ	2.2 UJ	1.5 J	2.5 J	2.3 J	1.9 J	2.8 J	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	0.64 J	0.58 J	0.55 J	0.48 J	0.53 J	0.53 J
Trichlorobenzene, 1,2,4-	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	2.2 U	2.2 U	0.86 J	0.97 J	0.75 J	2.2 U	2.2 U	2.2 U	0.97 J	2.2 U	1.1 U	2.2	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.0 J	1.6 J	1.5 J	1.5 J	1.2 J	1.4 J	1.2 J	1.4 J	1.5 J	1.0 J	2.5	1.8	1.9	1.9	1.9	1.8
Trimethylbenzene, 1,2,3-	2.0 U	2.0 U	5.2	12	16	18	17	14	20	2.0 U	0.48 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	2.0 U	2.0 UJ	7.3	15	17	15	13	11	16	2.0 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	2.0 U	2.0 U	4.6	10	12	11	9.4	8.2	11	2.0 U	0.27 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	1.9 U	5.2	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	2.6 U	2.6 U	60 J	140 J	250 J	410 J	440 J	330 J	700 J	2.6 U	0.51 J	0.33 J	1.1 J	1.3 U	2.9	2.9
Vinyl bromide	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																
Carbon Dioxide	2.15	3.34	3.33	3.36	3.06	3.39	3.22	3.35	3.46	3.91	NA	NA	NA	NA	NA	NA
Helium	0.057	0.0146 U	0.0168 U	0.014 U	0.0146 U	0.0146 U	0.017 U	0.0172 U	0.034	0.027	0.0188	0.014	0.015	0.015	0.015	0.03

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-38 1/22/2009	OU2SG-38 1/23/2009	OU2SG-38 1/25/2009	OU2SG-38 1/26/2009	OU2SG-38 1/30/2009	OU2SG-38 2/5/2009	OU2SG-38 2/13/2009	OU2SG-38 2/23/2009	OU2SG-38 3/25/2009	OU2SG-38 4/14/2009	OU2SG-38 5/11/2009
BTEX (ug/m3)											
Benzene	0.64 U	0.20 J	0.64 U	0.64 U	0.64 U	0.64 U	3.2 U	1.6 U	0.18 J	0.64 U	0.64 U
Toluene	0.64 J	1.2	0.36 J	0.35 J	0.53 J	0.37 J	0.98 J	1.9 U	0.56 J	0.23 J	0.25 J
Ethylbenzene	0.87 U	0.28 J	0.87 U	0.87 U	0.28 J	0.87 U	4.3 U	1.2 J	0.87 UJ	0.87 U	0.87 U
Xylene, m,p-	0.43 J	0.85 J	0.33 J	0.29 J	0.39 J	1.7 U	8.7 U	4.3 U	1.7 U	1.7 U	1.7 U
Xylene, o-	0.87 U	0.32 J	0.87 U	0.87 U	0.32 J	0.87 U	4.3 U	2.2 U	0.87 U	0.87 U	0.87 U
Other VOCs (ug/m3)											
Acetaldehyde	1.8 UJ	2.2 J	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	22 UJ	4.5 UJ	1.8 UJ	3.6 UJ	4.5 UJ
Acetone	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	5.9 UJ	3.0 UJ	1.8 UJ	1.8 UJ	1.8 U
Acrolein (propenal)	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	2.3 U	1.2 U	0.46 U	0.46 U	1.2 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	3.1 U	1.6 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 U	5.5 U	6.9 U	2.7 U	14 UJ	1.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	3.4 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U	5.2 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	3.9 U	1.9 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	2.2 UJ	1.1 U	0.44 U	0.44 U	0.44 U
Butane	1.3	0.60	8.7	10	36	66	69	37	4.4	1.1	0.94
Butanone, 2-	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	3.0 U	1.5 U	0.59 U	0.59 U	0.33 J
Carbon disulfide	0.62 U	0.62 U	0.62 U	0.62 U	0.18 J	0.16 J	3.1 U	1.6 U	0.62 U	0.62 U	0.29 J
Carbon tetrachloride	1.3 U	0.54 J	0.73 J	0.70 J	1.1 J	1.5	2.0 J	1.2 J	0.87 J	0.50 J	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2.6 U	1.3 U	0.53 U	0.53 U	0.53 U
Chloroform	0.67 J	0.74 J	0.70 J	0.55 J	0.77 J	0.83 J	4.9 U	0.99 J	1.2	1.5	1.3
Chloromethane	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	2.1 U	1.0 U	0.41 U	0.41 U	0.12 J
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	3.5 U	1.4 U	1.4 U	1.4 U
Cyclohexane	2.2	1.2	6.6	9.3	56	99	150	130	61	12	2.5
Decane, n-	1.2 U	0.36 J	1.2 U	0.52 J	1.2 U	1.2 U	5.8 U	2.9 U	1.2 U	1.2 U	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	4.3 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	3.8 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	3.0	2.1	2.9	2.6	1.7	1.6	2.8 J	1.4 J	1.2	1.2	0.99 U
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 UJ	0.81 UJ	0.81 U	0.81 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	0.79 U	0.79 U	0.79 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	1.4 U	0.74 J	0.69 J	1.6	0.49 J	0.55 J	3.4 J	8.7 U	3.5 U	0.63 J	1.4 U
Ethanol	2.1	1.7 J	0.77 J	0.95 J	0.68 J	0.53 J	4.7 U	1.6 J	1.7 J	0.62 J	1.9 U
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	0.92 U	0.92 U	0.92 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-38 1/22/2009	OU2SG-38 1/23/2009	OU2SG-38 1/25/2009	OU2SG-38 1/26/2009	OU2SG-38 1/30/2009	OU2SG-38 2/5/2009	OU2SG-38 2/13/2009	OU2SG-38 2/23/2009	OU2SG-38 3/25/2009	OU2SG-38 4/14/2009	OU2SG-38 5/11/2009
Ethyltoluene, p-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	2.5 U	0.98 U	0.98 U	0.98 U
Heptane, n-	0.82 U	0.82 U	7.2	8.6	53	0.91	4.1 UJ	2.0 U	0.82 U	0.82 U	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	11 U	5.3 UJ	2.1 UJ	2.1 U	2.1 U
Hexane, n-	1.8	0.71 J	12 J	14 J	93	81	71 J	18	0.75	0.70 U	0.70 U
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	5.1 U	2.0 U	0.82 U	0.82 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	4.8 U	2.4 U	0.97 U	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	2.4 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	2.0 U	0.82 U	0.82 U	0.82 U
Methylene chloride	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	30	4.3 U	1.7 U	1.7 U	1.4 J
Methylnaphthalene, 1-	5.8 U	5.8 U	5.8 UJ	5.8 UJ	5.8 U	1.2 U	3.5 J	7.3 UJ	2.9 U	5.8 U	1.2 U
Methylnaphthalene, 2-	5.8 U	5.8 U	5.8 U	5.8 U	5.8 UJ	1.2 U	2.0 J	7.3 U	2.9 U	5.8 U	0.33 J
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	1.0 U	1.0 U	1.0 U
Nonane	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	1.0 U	1.0 U	1.0 U
Octane, n-	0.93 U	0.93 U	0.93 U	0.93 U	5.2	0.93 UJ	4.7 U	2.3 U	0.93 U	0.93 U	0.93 U
Pentane	1.6	0.66	10	12	45	78	61	30	3.4	0.74	0.58 J
Propanol, 2-	1.2 U	1.4	1.2 U	1.2 U	1.2 UJ	0.49 UJ	3.2 U	3.1 UJ	1.2 U	0.49 UJ	1.2 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	4.3 U	2.1 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	7.6 U	1.5 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U	3.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.0 J	0.94 J	1.6	0.81 J	0.98 J	1.0 J	6.8 U	1.6 J	1.8	2.6	4.0
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.5 U	6.9 UJ	2.7 U	5.5 U	1.1 U
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	3.4 U	1.7 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.41 J	1.5 U	0.60 J	1.5 U	1.5 U	0.39 J	7.7 U	3.8 U	1.5 U	1.5 U	1.5 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	3.7 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	1.1 U	0.33 J	1.6
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.9	1.3	1.7	1.7	1.2	1.2	5.6 U	0.79 J	0.75 J	0.84 J	0.40 J
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	2.5 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	2.5 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.9 U	2.5 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	44	0.93 U	4.7 U	89	47	0.93 UJ	0.93 U
Undecane, n-	1.3 U	0.62 J	0.56 J	3.0	1.3 U	1.3 U	1.6 J	3.2 U	1.3 U	0.51 J	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	4.4 U	2.2 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	2.6 U	1.3 U	0.51 U	0.51 U	0.51 U
Other (%)											
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.9	3.88
Helium	0.0168	0.0157	0.0196	0.0201	0.0172	0.016	0.0187	0.0219	0.029	0.0181	0.0188 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-38 6/16/2009	OU2SG-38 7/30/2009	OU2SG-38 8/26/2009	OU2SG-38 9/23/2009	OU2SG-38 10/19/2009	OU2SG-38 11/18/2009	OU2SG-38 12/28/2009	OU2SG-39 12/30/2008	OU2SG-39A 1/20/2009	OU2SG-39P 1/20/2009	OU2SG-39A 1/21/2009	OU2SG-39P 1/21/2009	OU2SG-39 1/22/2009	OU2SG-39 1/23/2009
BTEX (ug/m3)														
Benzene	0.36 J	0.19 J	3.2 U	1.6 U	1.6 U	1.3 U	0.77 J	0.21 J	3.2 U	3.2 U	1.3 U	1.3 U	0.35 J	3.2 U
Toluene	0.22 J	0.34 J	3.8 U	1.9 U	1.9 U	1.5 U	3.6	1.6	7.3	2.2 J	1.4 J	0.65 J	1.5	3.9
Ethylbenzene	0.87 U	0.87 U	4.3 U	2.2 U	2.2 U	1.7 U	1.7 U	0.80 J	22	10	4.4	2.0	3.1	5.9
Xylene, m,p-	1.7 U	1.7 U	8.7 U	4.3 U	4.3 U	3.5 U	0.87 J	4.0	130	62	27	12	18	33
Xylene, o-	0.87 U	0.87 U	4.3 U	2.2 U	2.2 U	1.7 U	1.7 U	1.6	66	40	17	9.3	10	17
Other VOCs (ug/m3)														
Acetaldehyde	4.5 U	15	22 U	9.7 U	4.5 U	9.0 U	9.0 U	4.2 J	9.0 UJ	9 UJ	6.3 U	3.6 UJ	3.6 UJ	5.3 J
Acetone	2.4 U	6.9 U	11 U	3.6 U	4.5 U	1.3 J	3.6 UJ	2.7 U	6.8 U	7 U	3.8 U	2.6 U	3.4 U	6.9 U
Acrolein (propenal)	1.2 UJ	0.60 J	5.7 U	2.9 U	2.9 U	2.3 U	2.3 U	0.46 U	2.3 U	2.3 U	0.92 U	0.92 U	0.92 U	2.3 U
Allyl chloride	0.63 U	0.63 U	3.1 U	1.6 U	1.6 U	1.2 U	1.2 U	0.63 U	3.1 U	3.1 U	1.2 U	1.2 U	1.2 U	3.1 U
Benzothiophene	1.1 U	1.1 UJ	5.5 UJ	2.7 U	2.7 U	2.2 UJ	2.2 U	1.1 UJ	5.5 U	5.5 U	2.2 U	2.2 U	2.2 UJ	5.5 UJ
Bromodichloromethane	1.3 U	1.3 U	6.7 U	3.4 U	3.4 U	2.7 U	2.7 U	1.3 U	6.7 U	6.7 U	2.7 U	2.7 U	2.7 U	6.7 U
Bromofom	2.1 UJ	2.1 U	10 U	5.2 U	5.2 U	4.1 U	4.1 U	2.1 U	10 U	10 U	4.1 U	4.1 U	4.1 U	10 U
Bromomethane	0.78 U	0.78 U	3.9 U	1.9 U	1.9 U	1.6 U	1.6 U	0.78 U	3.9 U	3.9 U	1.6 U	1.6 U	1.6 U	3.9 U
Butadiene, 1,3-	0.44 U	0.44 U	2.2 U	1.1 U	1.1 U	0.88 U	0.88 U	0.44 U	2.2 U	2.2 U	0.88 U	0.88 U	0.88 U	2.2 U
Butane	0.48 U	0.48 U	2.4 U	1.2 U	1.2 U	0.95 U	1.4	0.90	2.4 U	2.4 U	0.76 J	0.95 U	0.72 J	2.4 U
Butanone, 2-	0.30 J	1.6	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U	0.43 J	3.0 U	3 U	1.4	1.2	1.2 U	3.0 U
Carbon disulfide	2.3	3.8	2.1 U	1.6 U	1.6 U	0.44 J	0.56 J	0.58 J	3.1 U	3.1 U	1.2 U	1.2 U	1.2 U	3.1 U
Carbon tetrachloride	1.3 U	1.3 U	6.3 U	3.1 U	3.1 U	2.5 U	2.5 U	1.3 U	6.3 U	6.3 U	2.5 U	2.5 U	2.5 U	6.3 U
Chlorobenzene	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	4.6 U	4.6 U	1.8 U	1.8 U	1.8 U	4.6 U
Chloroethane	0.53 U	0.53 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U	0.53 U	2.6 U	2.6 U	1.0 U	1.0 U	1.0 U	2.6 U
Chloroform	2.2	1.8	4.9 U	2.4 U	2.4 U	0.68 J	0.78 J	41	15	14	13	15	14	12
Chloromethane	0.11 J	0.14 J	2.1 U	1.0 U	1.0 U	0.83 U	0.50 J	0.29 J	2.1 U	2.1 U	0.83 U	0.83 U	0.23 J	2.1 U
Chlorotoluene, 2-	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 U	5.2 U	5.2 U	2.1 U	2.1 U	2.1 U	5.2 U
Cryofluorane	1.4 U	1.4 U	7.0 U	3.5 U	3.5 U	2.8 U	2.8 U	1.4 U	7.0 U	7 U	2.8 U	2.8 U	2.8 U	7.0 U
Cyclohexane	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.4 U	1.6 J	0.69 U	3.4 U	3.4 U	1.4 U	1.4 U	1.4 U	3.4 U
Decane, n-	1.2 U	1.2 U	5.8 U	2.9 U	2.9 U	2.3 U	54	8.4	1200	1300	920	900	760	570
Dibromochloromethane	1.7 U	1.7 U	8.5 U	4.3 U	4.3 U	3.4 U	3.4 U	1.7 U	8.5 U	8.5 U	3.4 U	3.4 U	3.4 U	8.5 U
Dibromoethane, 1,2-	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.1 U	3.1 U	1.5 U	7.7 U	7.7 U	3.1 U	3.1 U	3.1 U	7.7 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	6.0 U	6 U	2.4 U	2.4 U	2.4 U	6.0 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	6.0 U	6 U	2.4 U	2.4 U	2.4 U	6.0 U
Dichlorobenzene, 1,4-	1.2 U	0.36 J	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U	1.2 U	6.0 U	6 U	2.4 U	2.4 U	2.4 U	6.0 U
Dichlorodifluoromethane	0.46 J	0.79 J	4.9 U	0.74 J	0.62 J	0.89 J	1.2 J	5.1	5.1	5.4	4.7	4.8	4.9	4.7 J
Dichloroethane, 1,1-	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Dichloroethane, 1,2-	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.81 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Dichloroethene, 1,1-	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Dichloropropane, 1,2-	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	4.6 U	4.6 U	1.8 U	1.8 U	1.8 U	4.6 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	4.5 U	4.5 U	1.8 U	1.8 U	1.8 U	4.5 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U	0.91 U	4.5 U	4.5 U	1.8 U	1.8 U	1.8 U	4.5 U
Dioxane, 1,4-	0.72 UJ	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 UJ	0.72 U	3.6 U	3.6 U	1.4 U	1.4 U	1.4 U	3.6 U
Dodecane, n-	1.4 U	0.35 J	7.0 U	3.5 U	3.5 U	2.8 U	28	4.8 J	200 J	480	250	430	320	480
Ethanol	4.1	2.7	9.4 UJ	1.4 J	1.4 J	3.8 U	5.0	11	9.4 U	9.4 U	1.9 J	1.1 J	2.5 J	2.9 J
Ethylthiophene, 2-	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U	0.92 U	4.6 U	4.6 U	1.8 U	1.8 U	1.8 U	4.6 U

Table L
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Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-38 6/16/2009	OU2SG-38 7/30/2009	OU2SG-38 8/26/2009	OU2SG-38 9/23/2009	OU2SG-38 10/19/2009	OU2SG-38 11/18/2009	OU2SG-38 12/28/2009	OU2SG-39 12/30/2008	OU2SG-39A 1/20/2009	OU2SG-39P 1/20/2009	OU2SG-39A 1/21/2009	OU2SG-39P 1/22/2009	OU2SG-39 1/22/2009	OU2SG-39 1/23/2009
Ethyltoluene, p-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.0 U	2.0 U	0.99	110	88	54	40	32	32
Heptane, n-	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	1.6 U	1.9	0.82 U	2.0 J	4.1 U	1.6 U	1.6 U	0.56 J	1.3 J
Hexachlorobutadiene	2.1 U	2.1 U	11 U	5.3 U	5.3 U	4.3 U	4.3 U	2.1 U	11 UJ	11 UJ	4.3 U	4.3 U	4.3 U	11 U
Hexane, n-	0.70 U	0.70 U	3.5 U	1.8 U	1.8 U	1.4 U	0.85 J	0.70 U	3.5 U	3.5 U	1.4 U	1.4 U	1.4 U	3.5 U
Hexanone, 2-	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	1.6 U	1.6 U	0.82 U	4.1 U	4.1 U	1.6 U	1.6 U	1.6 U	4.1 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	0.97 UJ	0.97 U	4.8 U	2.4 U	2.4 U	1.9 U	1.9 U	0.78 J	150	150	110	98	80	67
Indene	0.95 UJ	0.95 U	4.8 U	2.4 U	2.4 U	1.9 U	1.9 U	0.95 U	4.8 U	4.8 U	1.9 U	1.9 U	1.9 U	4.8 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 U	0.72 U	3.6 U	3.6 U	1.4 U	1.4 U	1.4 U	3.6 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	4.1 UJ	2.0 U	2.0 U	1.6 U	1.6 U	1.0	4.1 U	4.1 U	1.6 U	1.6 U	1.6 U	4.1 U
Methylene chloride	0.58 J	0.94 J	2.3 J	4.3 U	4.3 U	3.5 U	3.4 U	1.7 U	3.4 U	3.4 U	1.4 U	1.4 U	1.5 U	3.4 U
Methylnaphthalene, 1-	1.2 U	1.2 UJ	5.8 UJ	2.9 U	2.9 U	2.3 U	2.3 U	R	5.4 J	32 J	21 J	37 J	24 J	32 J
Methylnaphthalene, 2-	1.2 U	1.2 U	5.8 UJ	2.9 U	2.9 U	2.3 UJ	2.3 U	14 UJ	12 J	66 J	45 J	80 J	46 J	61 J
Methylthiophene, 2-	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Methylthiophene, 3-	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.80 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Naphthalene	1.0 U	0.42 J	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U	1.0 UJ	14	29	21	27	25	27
Nonane	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U	4.4	390	280	130	86	74	86
Octane, n-	0.93 U	0.93 U	4.7 U	2.3 U	2.3 U	1.9 U	1.9 U	1.3	38	15	5.4	1.8 J	4.5	9.5
Pentane	0.19 J	0.59 U	3.0 U	1.5 U	1.5 U	1.2 U	2200	0.59 U	3.0 U	3 U	1.2 U	1.2 U	1.2 U	3.0 U
Propanol, 2-	1.2 U	2.0 U	6.1 U	3.0 U	3.0 U	2.5 U	2.5 U	0.49 U	6.1 U	6.1 U	2.5 U	2.5 U	2.5 U	6.1 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	4.3 U	2.1 U	2.1 U	1.7 U	1.7 U	0.85 U	4.3 U	4.3 U	1.7 U	1.7 U	1.7 U	4.3 U
t-Butyl alcohol	0.61 U	0.61 U	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U	0.61 U	3.0 U	3 U	1.2 U	1.2 U	1.2 U	3.0 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	6.9 U	3.4 U	3.4 U	2.7 U	2.7 U	1.4 U	6.9 U	6.9 U	2.7 U	2.7 U	2.7 U	6.9 U
Tetrachloroethene	13	19	16	11	7.6	7.4	2.0 J	0.45 J	6.8 U	6.8 U	2.7 U	2.7 U	2.7 U	6.8 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 UJ	5.5 UJ	2.7 UJ	2.7 U	2.2 UJ	2.2 U	1.2	380 J	550 J	440 J	510 J	480 J	420 J
Thiophene	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.4 U	1.4 U	0.69 U	3.4 U	3.4 U	1.4 U	1.4 U	1.4 U	3.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U	0.79 U	4.0 U	4 U	1.6 U	1.6 U	1.6 U	4.0 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.1 U	3.1 U	1.0 J	7.7 U	7.7 U	3.1 U	3.1 U	3.1 U	7.7 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	7.4 U	3.7 U	3.7 U	3.0 U	3.0 U	1.5 UJ	7.4 U	7.4 U	3.0 U	3.0 U	3.0 U	7.4 U
Trichloroethane, 1,1,1-	1.2	1.9	3.3 J	3.3	3.8	2.4	1.4 J	1.1 U	5.4 U	5.4 U	2.2 U	2.2 U	2.2 U	5.4 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	5.4 U	5.4 U	2.2 U	2.2 U	2.2 U	5.4 U
Trichloroethene	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U	1.1 U	5.4 U	5.4 U	2.2 U	2.2 U	2.2 U	5.4 U
Trichlorofluoromethane	2.0	2.3	1.4 J	0.84 J	2.8 U	0.90 J	0.79 J	11	6.5	7.2	6.4	7.0	6.9	7.1
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.0 U	2.0 U	5.0	290	300	210	200	160	130
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.0 U	2.0 U	1.6 J	720	690	460	380	300	250
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	4.9 U	2.5 U	2.5 U	2.0 U	2.0 U	1.8	180	160	96	75	60	60
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	4.7 U	2.3 U	2.3 U	1.9 U	1.9 U	0.93 U	4.7 U	4.7 U	1.9 U	1.9 U	1.9 U	4.7 U
Undecane, n-	1.3 U	1.3 U	6.4 U	3.2 U	3.2 U	2.6 U	95	4.7	990	1500	1200	1600	1500	1300
Vinyl bromide	0.87 U	0.87 U	4.4 U	2.2 U	2.2 U	1.8 U	1.8 U	0.87 U	4.4 U	4.4 U	1.8 U	1.8 U	1.8 U	4.4 U
Vinyl chloride	0.51 U	0.51 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U	0.51 U	2.6 U	2.6 U	1.0 U	1.0 U	1.0 U	2.6 U
Other (%)														
Carbon Dioxide	4.5	6.54	6.41	5.09	4.72	3.8	2.2	NA	NA	NA	NA	NA	NA	NA
Helium	0.0182	0.021 U	0.0176 U	0.0162 U	0.00304 U	0.0173 U	0.0131 U	0.0196	0.0139	0.0148	0.0156	0.0165	0.0192	0.0196

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name:	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39	OU2SG-39
Sample Date:	1/25/2009	1/26/2009	1/30/2009	2/5/2009	2/13/2009	2/23/2009	3/25/2009	4/14/2009	5/11/2009	6/16/2009	7/30/2009	8/26/2009	9/23/2009	10/19/2009	11/18/2009	12/28/2009
BTEX (ug/m3)																
Benzene	3.2 U	3.2 U	3.2 U	1.6 U	1.6 U	3.2 U	0.33 J	0.38 J	0.94 U	0.87 U	0.26 J	3.2 U	1.6 U	1.6 U	1.3 U	0.77 J
Toluene	2.0 J	2.1 J	3.2 J	1.4 J	0.57 J	3.8 U	4.5	5.0	2.7	2.8	1.2	3.8 U	1.2 J	1.9 U	0.83 J	1.5 U
Ethylbenzene	4.6	4.6	5.4	4.3	0.90 J	4.3 U	16 J	11	3.1	4.5	0.48 J	1.1 J	2.2 U	2.2 U	1.7 U	1.7 U
Xylene, m,p-	26	26	30	25	5.6	4.0 J	65	25	6.9	11	1.5 J	2.8 J	1.1 J	4.3 U	1.0 J	3.5 U
Xylene, o-	15	15	17	15	3.9	2.4 J	34	23	6.1	8.4	0.87	2.0 J	2.2 U	2.2 U	0.52 J	1.7 U
Other VOCs (ug/m3)																
Acetaldehyde	9.0 UJ	9.0 UJ	9.0 UJ	4.5 UJ	11 U	9.0 U	5.5 J	3.6 U	4.5 UJ	4.5 UJ	26 J	26 U	6.4 U	4.5 U	9.0 U	9.0 U
Acetone	6.0 U	6.0 U	6.6 U	4.5 UJ	3.9 U	5.9 U	2.7 J	1.8 U	2.8 U	2.4 U	9.7 U	16 UJ	3.0 U	4.5 U	5.3	3.6 U
Acrolein (propenal)	2.3 U	2.3 U	2.3 U	1.2 U	1.2 U	2.3 U	0.46 U	0.46 U	1.2 U	1.2 UJ	0.64 J	5.7 U	2.9 U	2.9 U	2.3 U	2.3 U
Allyl chloride	3.1 U	3.1 U	3.1 U	1.6 U	1.6 U	3.1 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	3.1 U	1.6 U	1.6 U	1.2 U	1.2 U
Benzothiophene	5.5 UJ	5.5 UJ	5.5 U	2.7 U	2.7 U	14 U	2.7 U	14 UJ	1.1 U	1.1 U	1.1 UJ	5.5 UJ	2.7 U	2.7 U	2.2 UJ	2.2 U
Bromodichloromethane	6.7 U	6.7 U	6.7 U	3.4 U	3.4 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	3.4 U	3.4 U	2.7 U	2.7 U
Bromoform	10 U	10 U	10 U	5.2 U	5.2 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U	5.2 U	5.2 U	4.1 U	4.1 U
Bromomethane	3.9 U	3.9 U	3.9 U	1.9 U	1.9 U	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	3.9 U	1.9 U	1.9 U	1.6 U	1.6 U
Butadiene, 1,3-	2.2 U	2.2 U	2.2 U	1.1 U	1.1 UJ	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	2.2 U	1.1 U	1.1 U	0.88 U	0.88 U
Butane	2.4 U	2.4 U	1.2 J	0.94 J	0.65 J	1.1 J	0.82	0.83	1.1	1.3	3.8	2.0 J	1.7	2.0	2.9	3.0
Butanone, 2-	3.0 U	3.0 U	3.0 U	0.76 J	1.5 U	3.0 U	0.74	0.59 U	0.34 J	0.39 J	1.5	3.0 U	1.5 U	1.5 U	2.1	1.2 U
Carbon disulfide	3.1 U	3.1 U	1.0 J	0.49 J	0.62 J	3.1 U	0.43 J	0.62 U	1.0	0.40 J	0.90 U	3.1 U	1.6 U	1.6 U	2.6	1.7
Carbon tetrachloride	6.3 U	6.3 U	6.3 U	3.1 U	3.1 U	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.3 U	3.1 U	3.1 U	2.5 U	2.5 U
Chlorobenzene	4.6 U	4.6 U	4.6 U	2.3 U	2.3 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U
Chloroethane	2.6 U	2.6 U	2.6 U	1.3 U	1.3 U	2.6 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U
Chloroform	11	11	11	10	9.8	10	11	13	13	7.4	6.9	5.8	2.2 J	0.85 J	0.78 J	2.0 U
Chloromethane	2.1 U	2.1 U	2.1 U	1.0 U	1.0 U	2.1 U	0.41 U	0.12 J	0.15 J	0.41 U	0.29 J	0.52 J	1.0 U	1.0 U	0.83 U	0.83 U
Chlorotoluene, 2-	5.2 U	5.2 U	5.2 U	2.6 U	2.6 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	2.6 U	2.6 U	2.1 U	2.1 U
Cryofluorane	7.0 U	7.0 U	7.0 U	3.5 U	3.5 U	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	3.5 U	3.5 U	2.8 U	2.8 U
Cyclohexane	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	3.4 U	0.25 J	0.52 J	1.4	0.22 J	0.65 J	3.4 U	1.7 U	1.7 U	1.4 U	1.2 J
Decane, n-	430	380	390	330	230	66	270	200	1.2 U	1.2 U	1.2 UJ	20 J	2.9 U	2.9 U	2.3 U	2.3 U
Dibromochloromethane	8.5 U	8.5 U	8.5 U	4.3 U	4.3 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	4.3 U	4.3 U	3.4 U	3.4 U
Dibromoethane, 1,2-	7.7 U	7.7 U	7.7 U	3.8 U	3.8 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	3.8 U	3.8 U	3.1 U	3.1 U
Dichlorobenzene, 1,2-	6.0 U	6.0 U	6.0 U	3.0 U	3.0 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U
Dichlorobenzene, 1,3-	6.0 U	6.0 U	6.0 U	3.0 U	3.0 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U
Dichlorobenzene, 1,4-	6.0 U	6.0 U	6.0 U	3.0 U	3.0 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U	3.0 U	3.0 U	2.4 U	2.4 U
Dichlorodifluoromethane	4.6 J	4.8 J	5.2	3.8	4.0	4.2 J	4.0	4.0	2.5	1.4	2.1	3.2 J	2.6	2.0 J	2.3	2.2
Dichloroethane, 1,1-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Dichloroethane, 1,2-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.81 UJ	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Dichloroethene, 1,1-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Dichloroethene, cis-1,2-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Dichloropropane, 1,2-	4.6 U	4.6 U	4.6 U	2.3 U	2.3 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U
Dichloropropene, cis-1,3	4.5 U	4.5 U	4.5 U	2.3 U	2.3 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U
Dichloropropene, trans-1,3	4.5 U	4.5 U	4.5 U	2.3 U	2.3 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	2.3 U	2.3 U	1.8 U	1.8 U
Dioxane, 1,4-	3.6 U	3.6 U	3.6 U	1.8 U	1.8 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 UJ
Dodecane, n-	270	290	500	230 J	510 J	280	300 J	130	1.4 UJ	1.4 U	1.4 UJ	7.0 UJ	3.5 U	3.5 U	2.8 U	2.8 U
Ethanol	4.7 J	3.7 J	4.9 J	2.6 J	4.7 U	3.5 J	5.9	1.6 J	2.9 U	2.6 U	1.4 J	9.4 UJ	3.2 J	4.7 U	2.4 J	3.8 U
Ethylthiophene, 2-	4.6 U	4.6 U	4.6 U	2.3 U	2.3 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	2.3 U	2.3 U	1.8 U	1.8 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Sample Name: Sample Date:	OU2SG-39 1/25/2009	OU2SG-39 1/26/2009	OU2SG-39 1/30/2009	OU2SG-39 2/5/2009	OU2SG-39 2/13/2009	OU2SG-39 2/23/2009	OU2SG-39 3/25/2009	OU2SG-39 4/14/2009	OU2SG-39 5/11/2009	OU2SG-39 6/16/2009	OU2SG-39 7/30/2009	OU2SG-39 8/26/2009	OU2SG-39 9/23/2009	OU2SG-39 10/19/2009	OU2SG-39 11/18/2009	OU2SG-39 12/28/2009
Ethyltoluene, p-	28	27	29	27	12	4.4 J	38	80	6.9	14	0.98 U	4.9 U	2.5 U	2.5 U	2.0 U	2.0 U
Heptane, n-	4.1 U	4.1 U	4.1 U	2.0 U	2.0 UJ	4.1 U	1.3	0.86	0.82 U	1.6	4.1	3.7 J	2.0 U	2.0 U	1.6 U	1.6 U
Hexachlorobutadiene	11 U	11 U	11 U	5.3 U	5.3 U	11 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	11 U	5.3 U	5.3 U	4.3 U	4.3 U
Hexane, n-	3.5 U	3.5 U	3.5 U	1.8 U	1.8 UJ	3.5 U	0.38 J	0.35 J	0.70 U	1.9	6.8	5.1	1.1 J	0.79 J	2.2	1.4 U
Hexanone, 2-	4.1 U	4.1 U	4.1 U	2.0 U	2.0 U	10 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	2.0 U	2.0 U	1.6 U	1.6 U
Hydrogen sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indan	52	50	53	52	34	11	49	29	5.8	19	0.97 U	2.7 J	2.4 U	2.4 U	1.9 U	2.1
Indene	4.8 U	4.8 U	4.8 U	2.4 U	2.4 U	4.8 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U	2.4 U	2.4 U	1.9 U	1.9 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	3.6 U	3.6 U	3.6 U	1.8 U	1.8 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	1.8 U	1.8 U	1.4 U	1.4 U
Methyl-2-pentanone, 4-	4.1 U	4.1 U	4.1 U	2.0 U	2.0 U	4.1 U	1.2	0.82 U	0.85	0.82 U	0.82 U	4.1 UJ	2.0 U	2.0 U	1.6 U	1.6 U
Methylene chloride	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U	1.0 J	1.7 U	1.7 U	8.7 U	4.3 U	4.3 U	3.5 U	3.4 U
Methylnaphthalene, 1-	11 J	16 J	38 J	15	36 J	28	34 J	4.0 J	1.2 U	1.2 U	1.2 UJ	5.8 UJ	2.9 U	2.9 U	1.6 J	2.3 U
Methylnaphthalene, 2-	22 J	37 J	72 J	30	77	50	67 J	5.2 J	1.2 UJ	1.2 U	1.2 U	5.8 UJ	2.9 U	2.9 U	2.2 J	2.3 U
Methylthiophene, 2-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Methylthiophene, 3-	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Naphthalene	18	18	17	12	16	6.4	1.0 UJ	1.0 UJ	1.0 U	4.8	1.0 U	5.2 UJ	2.6 U	2.6 U	2.5	2.1 U
Nonane	68	68	76	74	23	7.8	96	75	1.0 U	2.3	8.5	13	1.3 J	2.6 U	0.63 J	2.1 U
Octane, n-	6.0	6.3	7.4	5.6	2.3 U	4.7 U	9.9	11	0.28 J	1.8	5.8	5.1	2.3 U	2.3 U	1.9 U	1.9 U
Pentane	3.0 U	3.0 U	3.0 U	1.5 U	1.5 U	3.0 U	0.63	0.53 J	1.0	3.2	9.4	6.5	2.0	2.1	2.6	2.9
Propanol, 2-	6.1 U	6.1 U	6.1 U	1.2 U	1.2 U	6.1 U	1.2 U	0.49 UJ	1.2 U	1.2 U	1.2 U	6.1 U	3.0 U	3.0 U	2.5 U	2.5 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	4.3 U	4.3 U	4.3 U	2.1 U	2.1 U	4.3 U	1.3	0.43 J	0.33 J	0.63 J	0.34 J	4.3 U	2.1 U	2.1 U	1.7 U	1.7 U
t-Butyl alcohol	3.0 U	3.0 U	3.0 U	1.5 U	3.8 U	3.0 U	0.16 J	0.61 U	0.61 U	0.61 U	0.61 U	3.0 U	1.5 U	1.5 U	1.2 U	1.2 U
Tetrachloroethane, 1,1,2,2-	6.9 U	6.9 U	6.9 U	3.4 U	3.4 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U	3.4 U	3.4 U	2.7 U	2.7 U
Tetrachloroethene	6.8 U	6.8 U	6.8 U	3.4 U	3.4 U	6.8 U	1.4 U	0.34 J	0.88 J	1.4 U	1.6	2.7 J	1.2 J	3.4 U	2.7 U	2.7 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	310 J	270 J	280 J	220 J	270 J	94	160	220 J	35 J	53 J	5.2 J	21 J	2.7 UJ	2.7 U	2.2 UJ	28 J
Thiophene	3.4 U	3.4 U	3.4 U	1.7 U	1.7 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	3.4 U	1.7 U	1.7 U	1.4 U	1.4 U
Trans-1,2-dichloroethene	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	2.0 U	2.0 U	1.6 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	7.7 U	7.7 U	7.7 U	3.8 U	3.8 U	7.7 U	0.55 J	0.92 J	1.4 J	0.94 J	1.4 J	7.7 U	0.96 J	3.8 U	0.92 J	0.77 J
Trichlorobenzene, 1,2,4-	7.4 U	7.4 U	7.4 U	3.7 U	3.7 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	3.7 U	3.7 U	3.0 U	3.0 U
Trichloroethane, 1,1,1-	5.4 U	5.4 U	5.4 U	2.7 U	2.7 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U
Trichloroethane, 1,1,2-	5.4 U	5.4 U	5.4 U	2.7 U	2.7 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U
Trichloroethene	5.4 U	5.4 U	5.4 U	2.7 U	2.7 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	2.7 U	2.7 U	2.2 U	2.2 U
Trichlorofluoromethane	6.5	6.6	7.0	5.4	7.2	6.8	7.6	11	19	18	61	72	53	36	34	20
Trimethylbenzene, 1,2,3-	100	94	100	94	55	23	100	160	16	42	0.64 J	3.9 J	2.5 U	2.5 U	2.0 U	12
Trimethylbenzene, 1,2,4-	210	190	210	200	100	38	220	56	11	21	1.1	5.2	2.5 U	2.5 U	0.59 J	2.0 U
Trimethylbenzene, 1,3,5-	50	46	53	46	20	9.1	64	93	10	15	0.98 U	2.2 J	2.5 U	2.5 U	2.0 U	5.7
Trimethylpentane, 2,2,4-	4.7 U	4.7 U	4.7 U	2.3 U	2.3 U	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	4.7 U	2.3 U	2.3 U	1.9 U	1.9 U
Undecane, n-	980	810	870	600	850	270	430	220	1.3 UJ	1.3 UJ	1.3 UJ	6.4 UJ	3.2 U	3.2 U	2.6 U	2.6 U
Vinyl bromide	4.4 U	4.4 U	4.4 U	2.2 U	2.2 U	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	4.4 U	2.2 U	2.2 U	1.8 U	1.8 U
Vinyl chloride	2.6 U	2.6 U	2.6 U	1.3 U	1.3 U	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	2.6 U	1.3 U	1.3 U	1.0 U	1.0 U
Other (%)																
Carbon Dioxide	NA	NA	NA	NA	NA	NA	NA	3.16	6.16	8.67	14.3	15.5	10.8	7.68	5.7	3.49
Helium	0.0163	0.0166	0.0155	0.0147	0.034	0.0197	0.02	0.0214	0.0175 U	0.058	0.0299 U	0.0186 U	0.0156 U	0.00346 U	0.0151 U	0.0166 U

Table L
Analytical Soil Vapor Results
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

Notes:

ug/m3 - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, and xylene

VOCs - volatile organic compounds

a suffix - start up sample collected in the morning

b suffix - start upsample collected in the afternoon

The first day morning start up sample was collected before system start up.

Bolding indicates a detected result value

NA - not analyzed

NE - not established

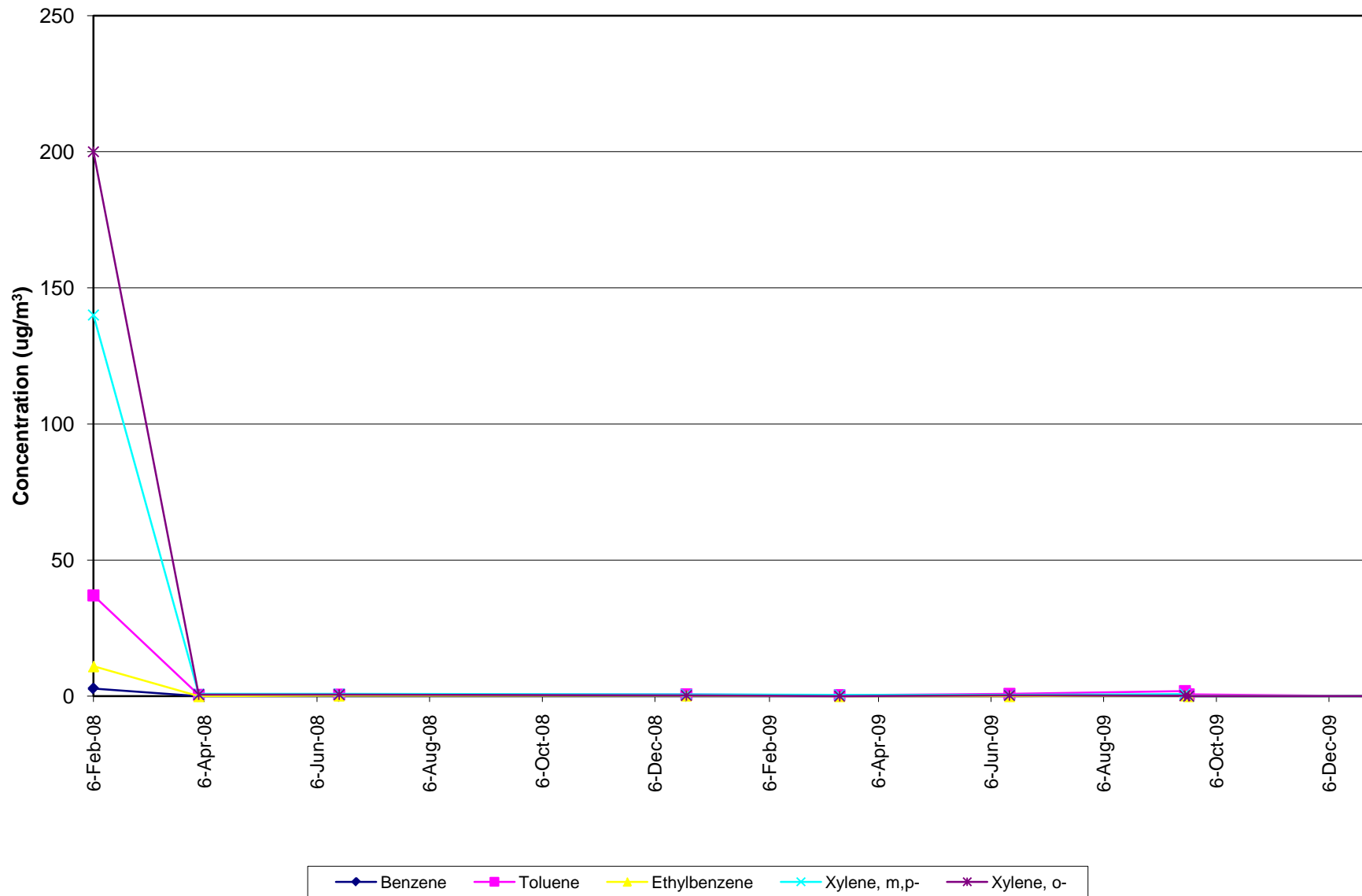
E - value above quantitation range

J - estimated value

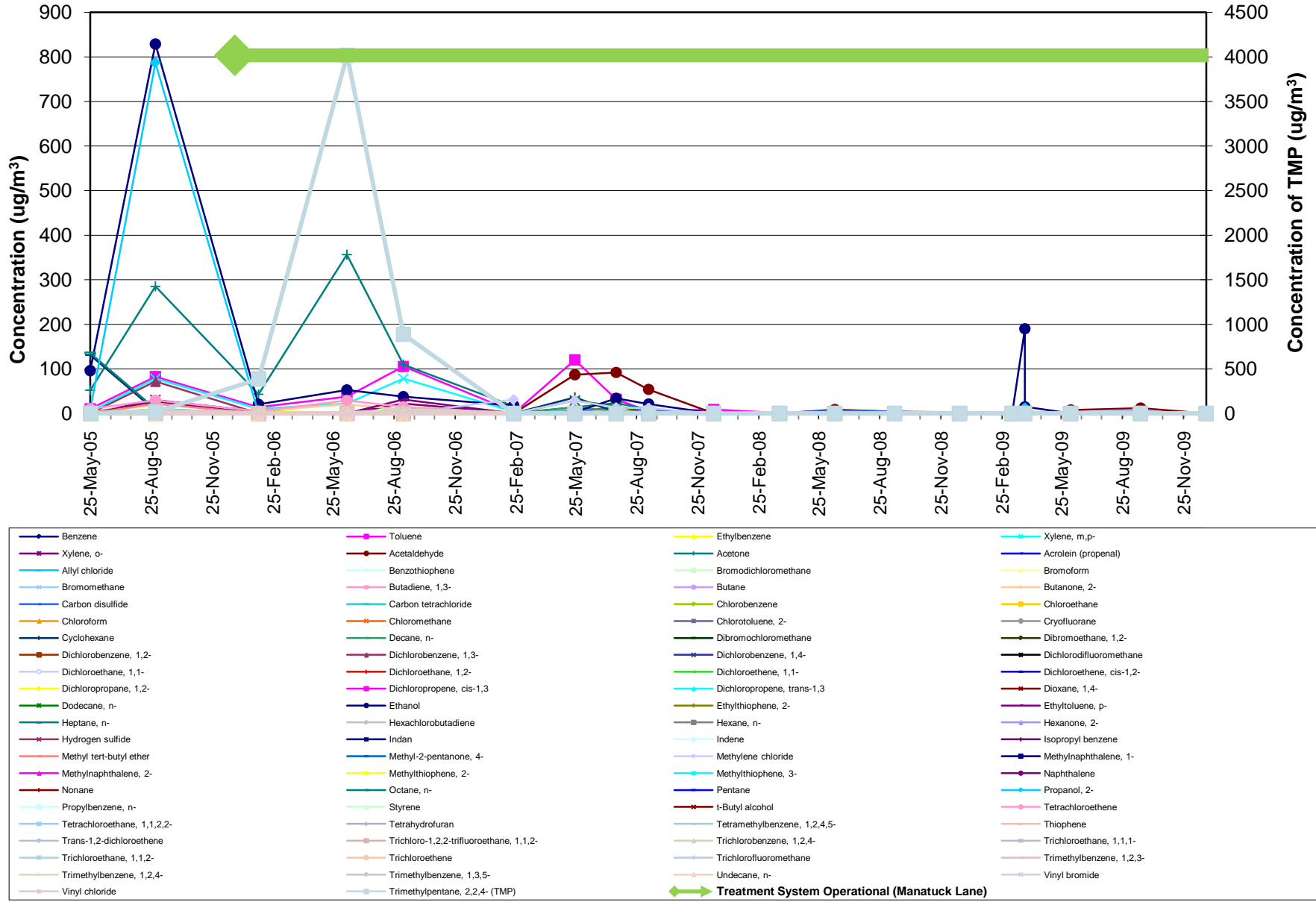
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

UU - not detected at or above the reporting limit shown and the reporting limit is estimated

Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU1SG-06 BTEX

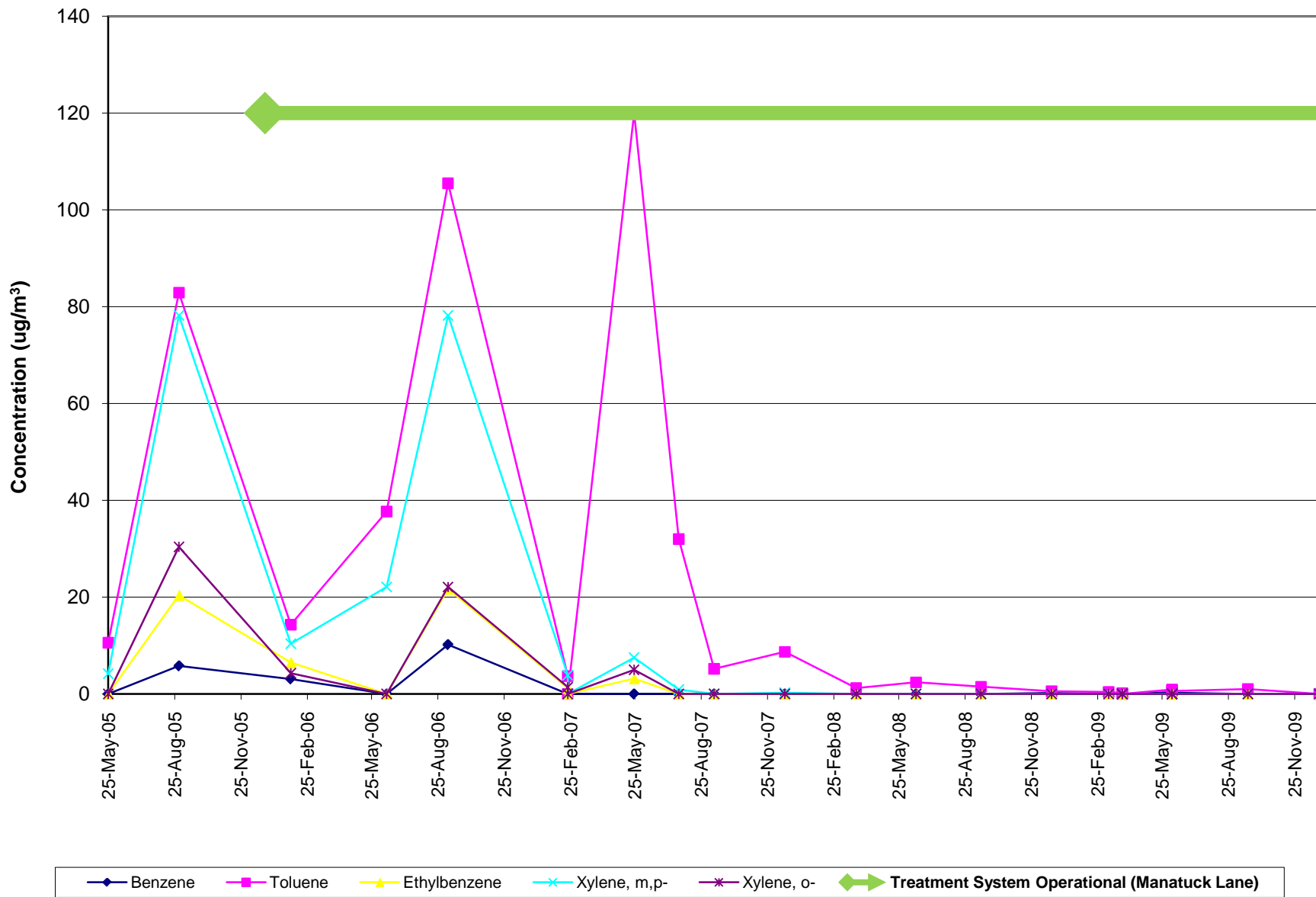


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-09



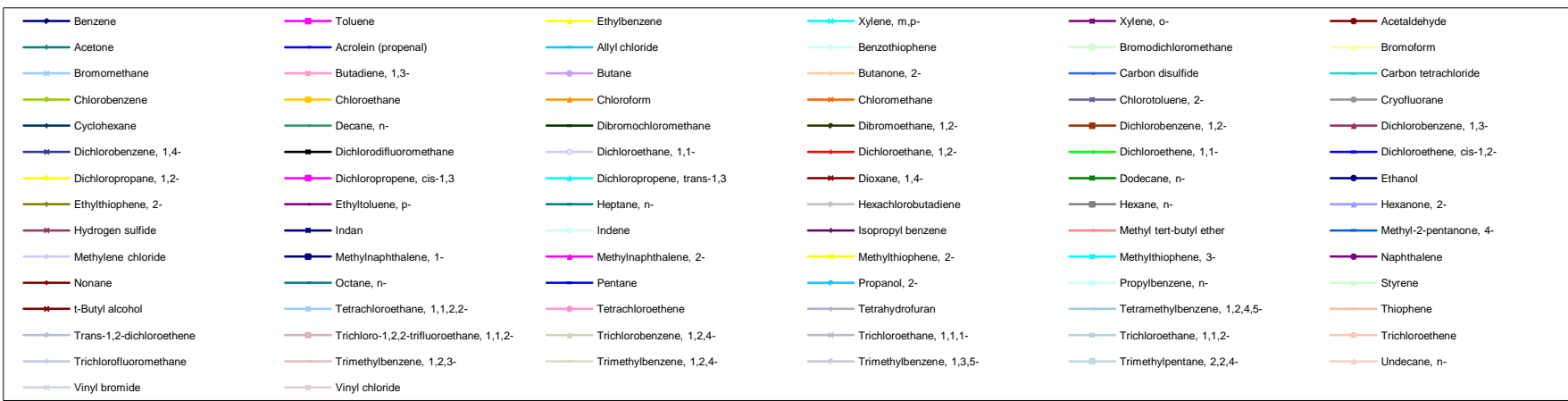
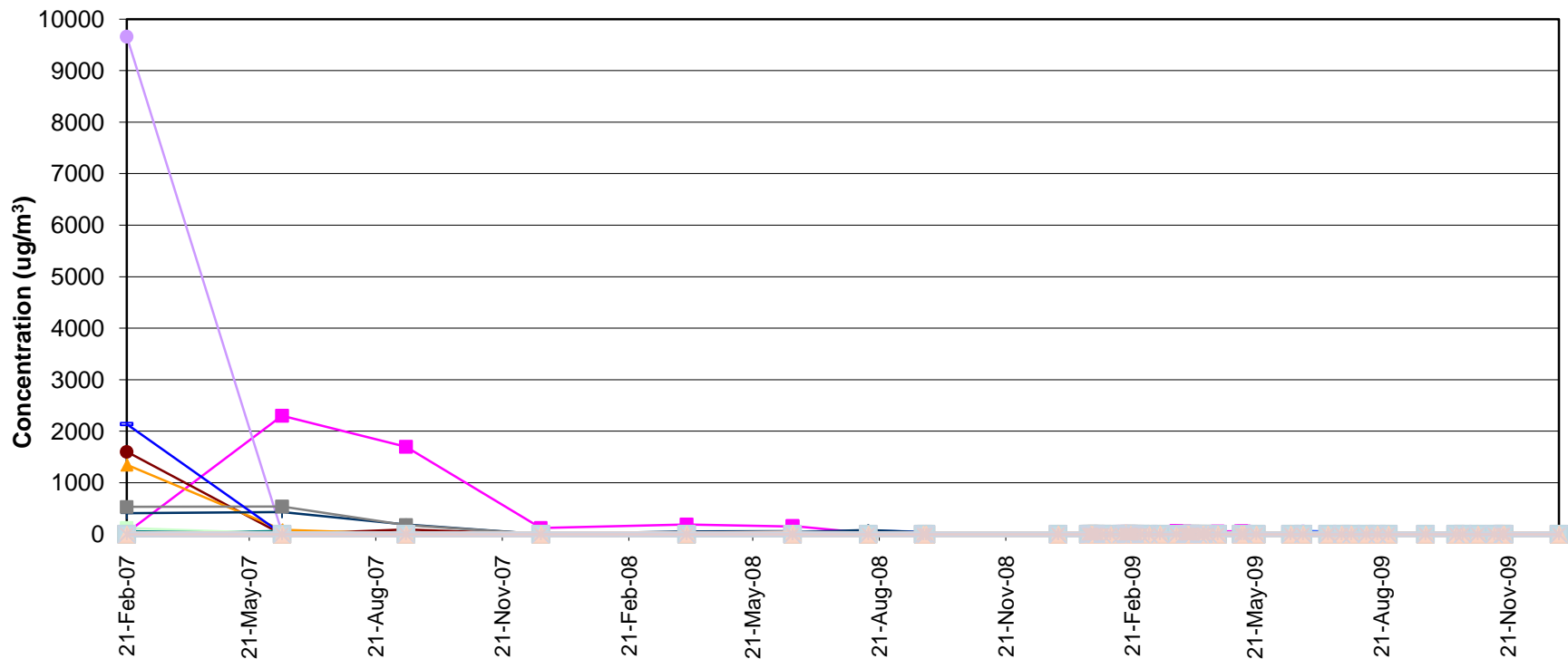
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

OU2SG-09 BTEX

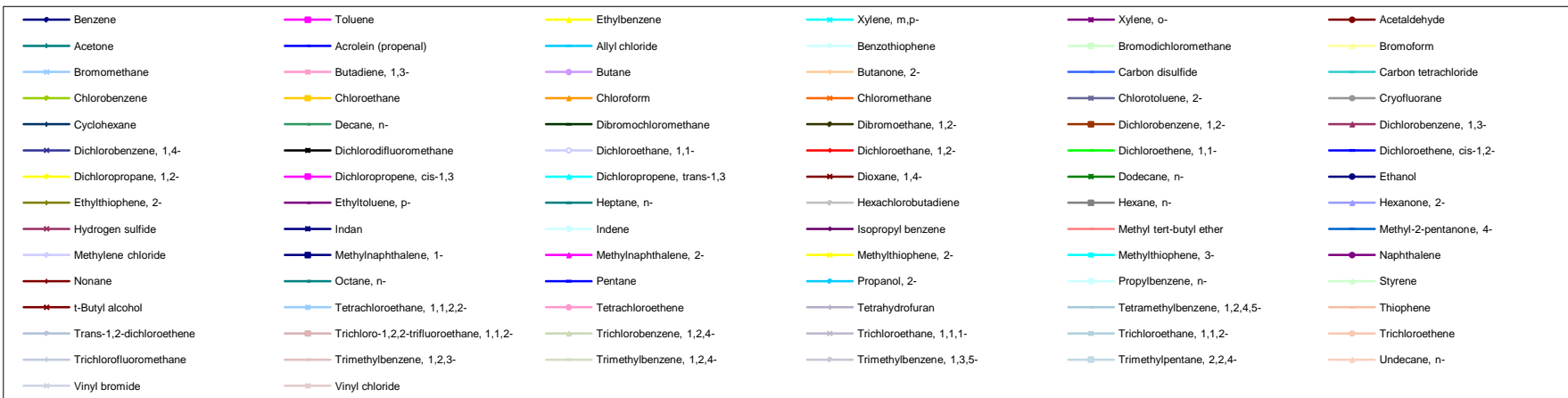
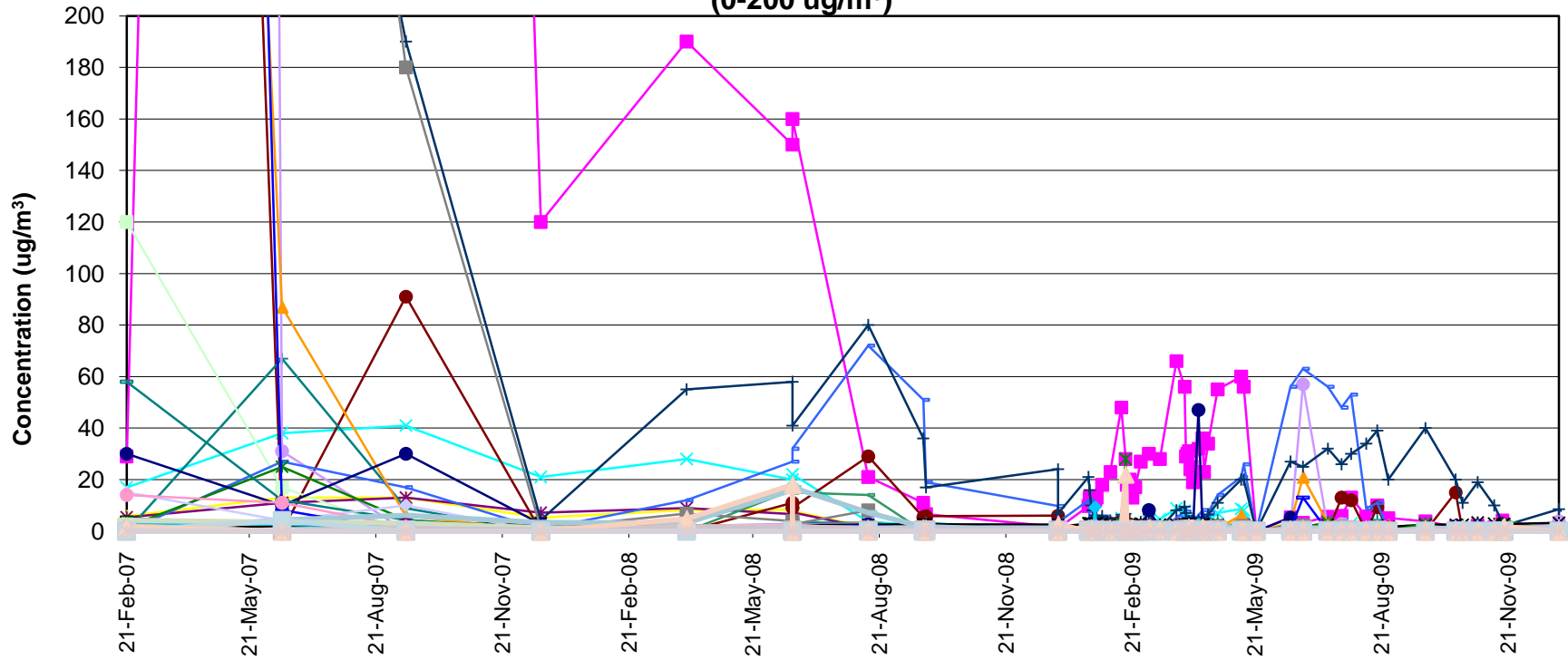


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site

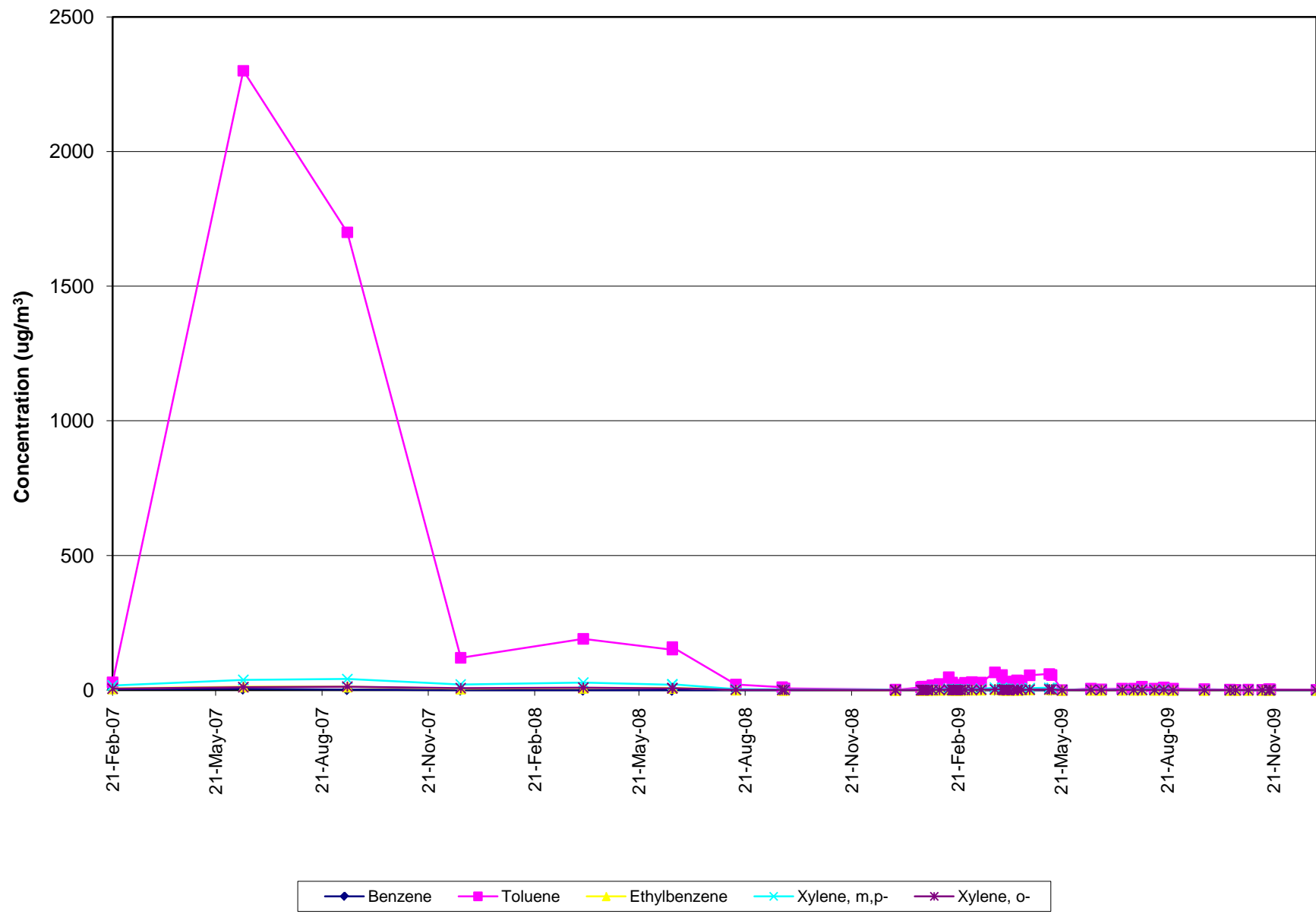
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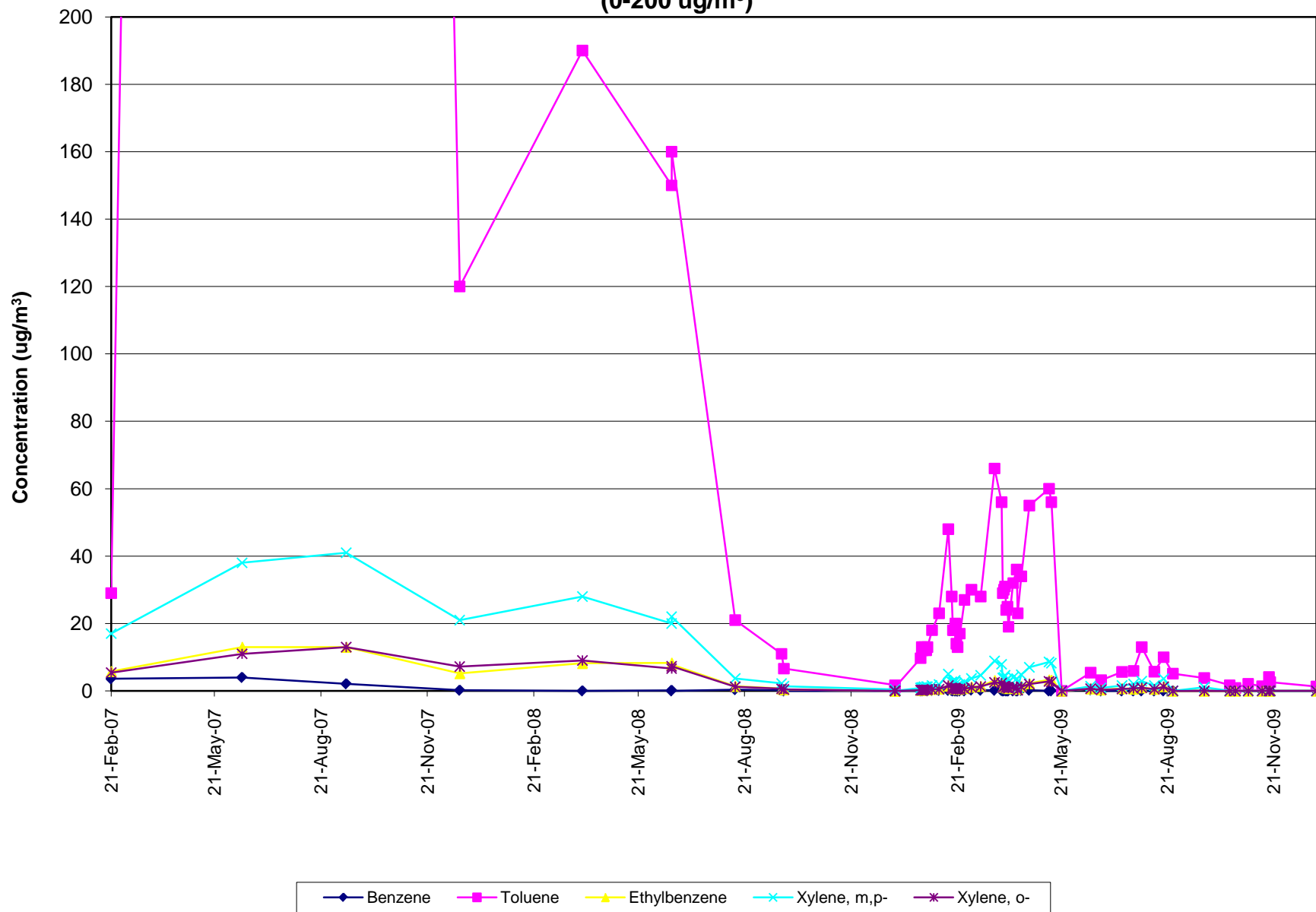
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-11
(0-200 ug/m³)



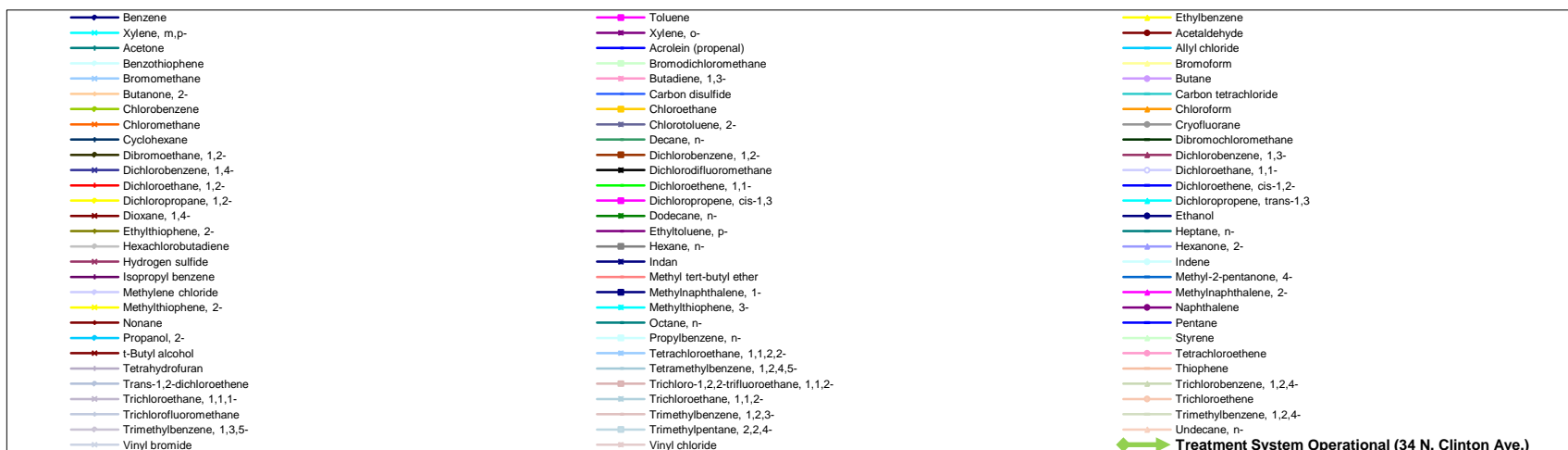
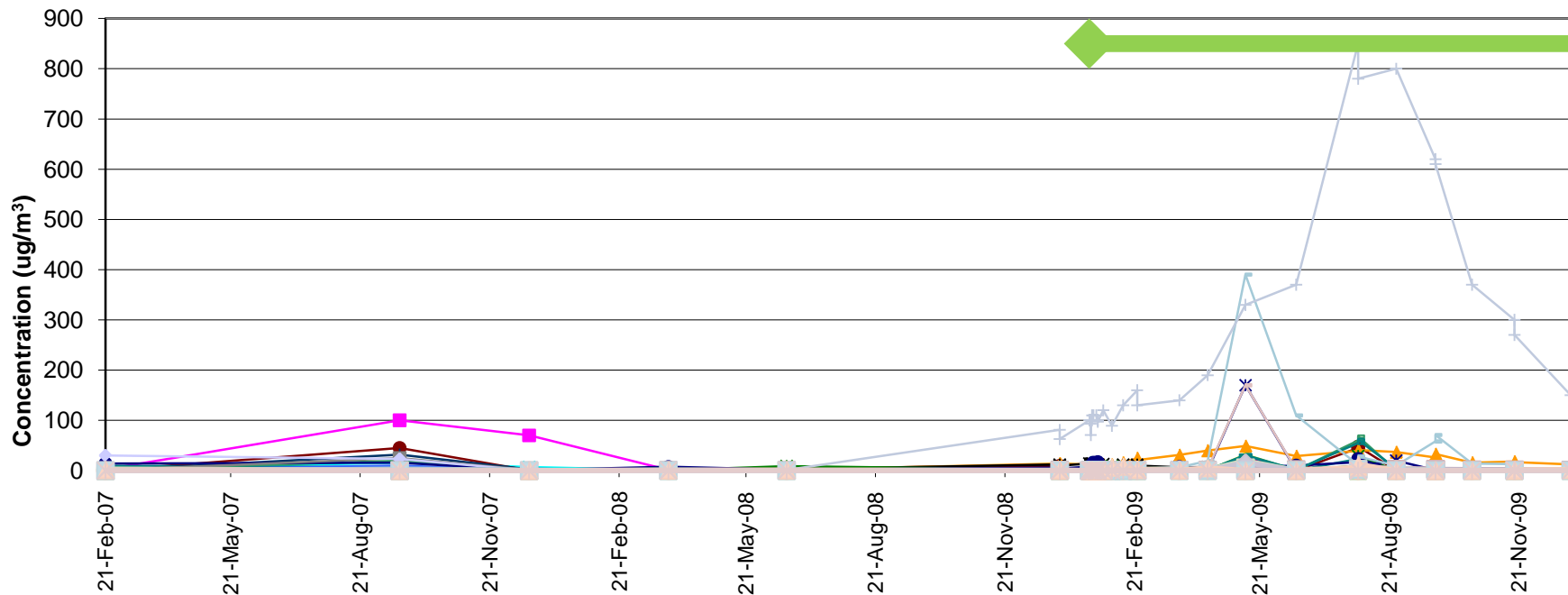
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-11 BTEX



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-11 BTEX
(0-200 ug/m³)

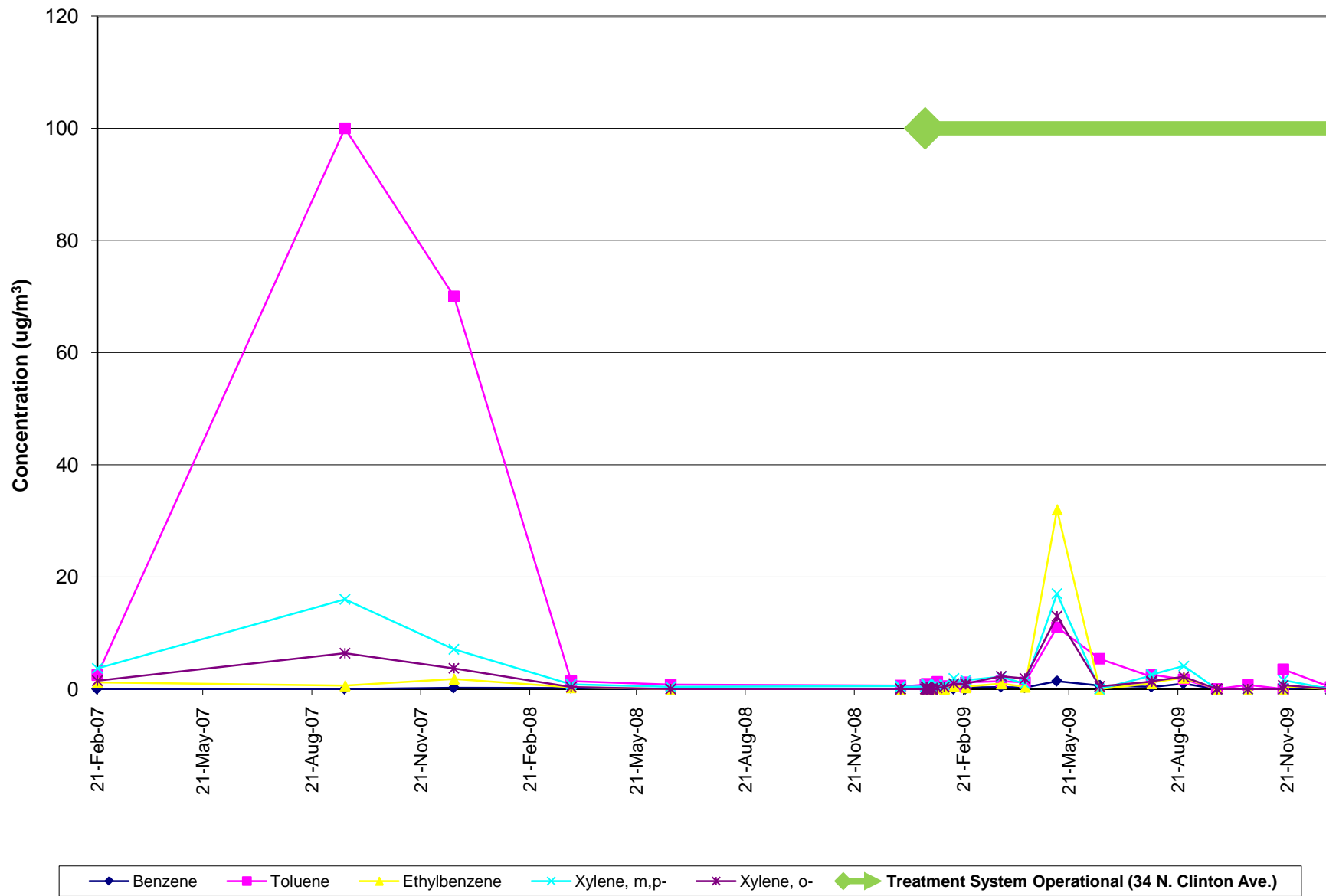


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-12

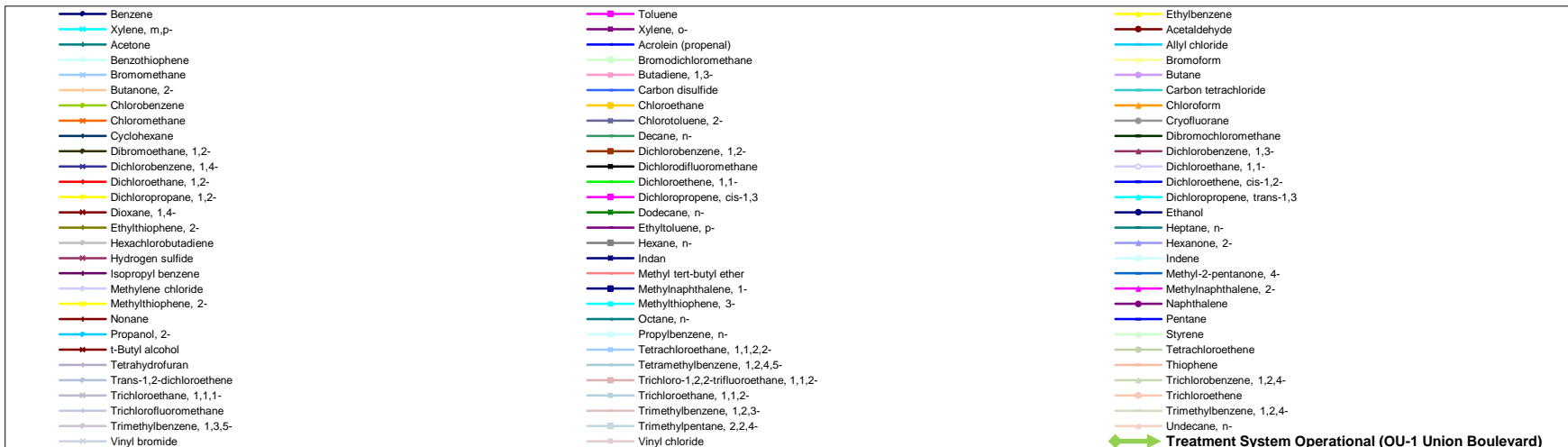
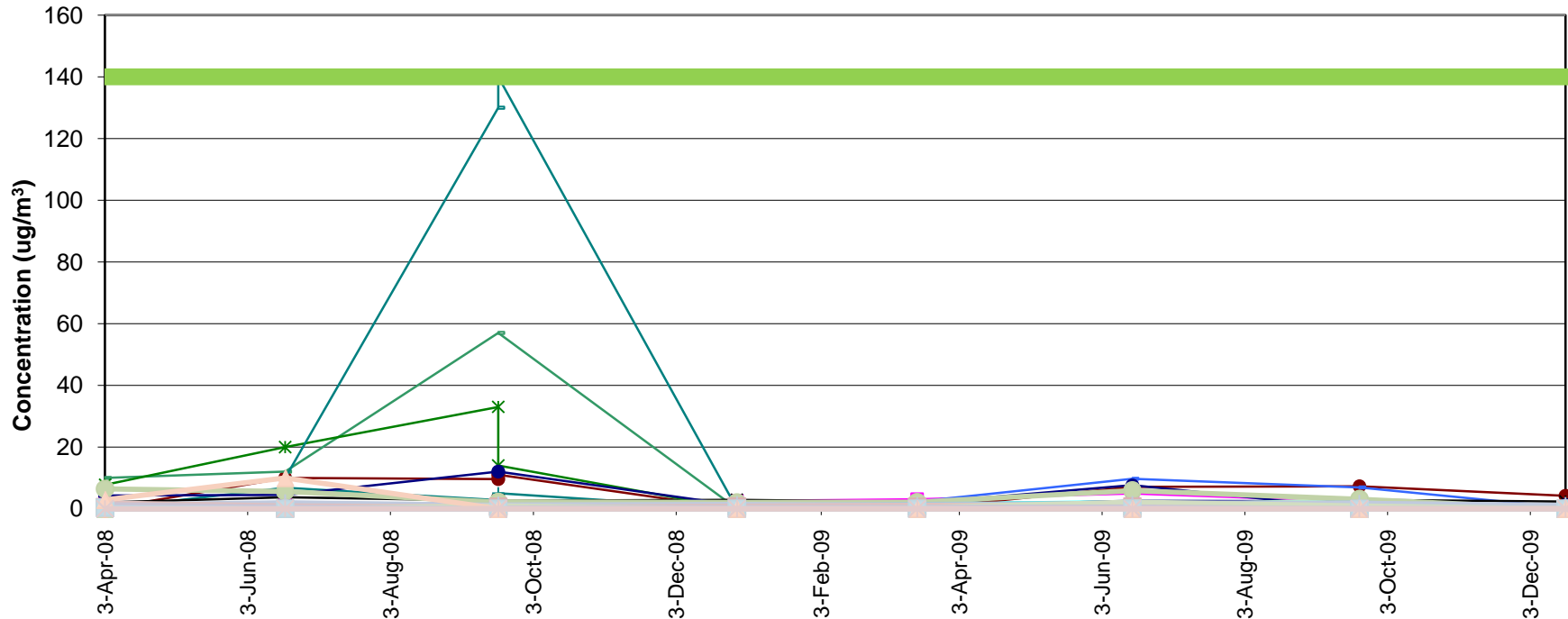


Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

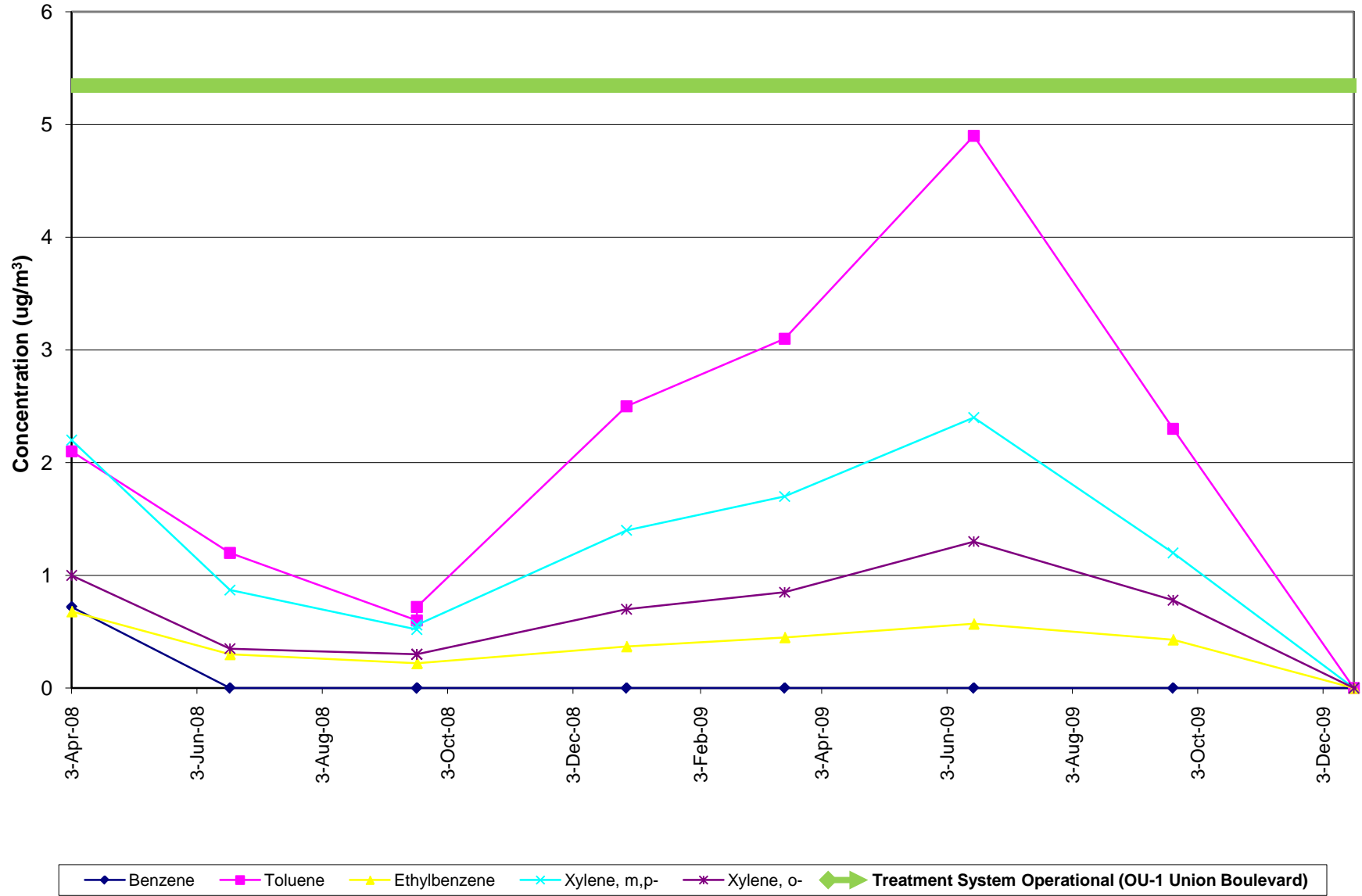
OU2SG-12 BTEX



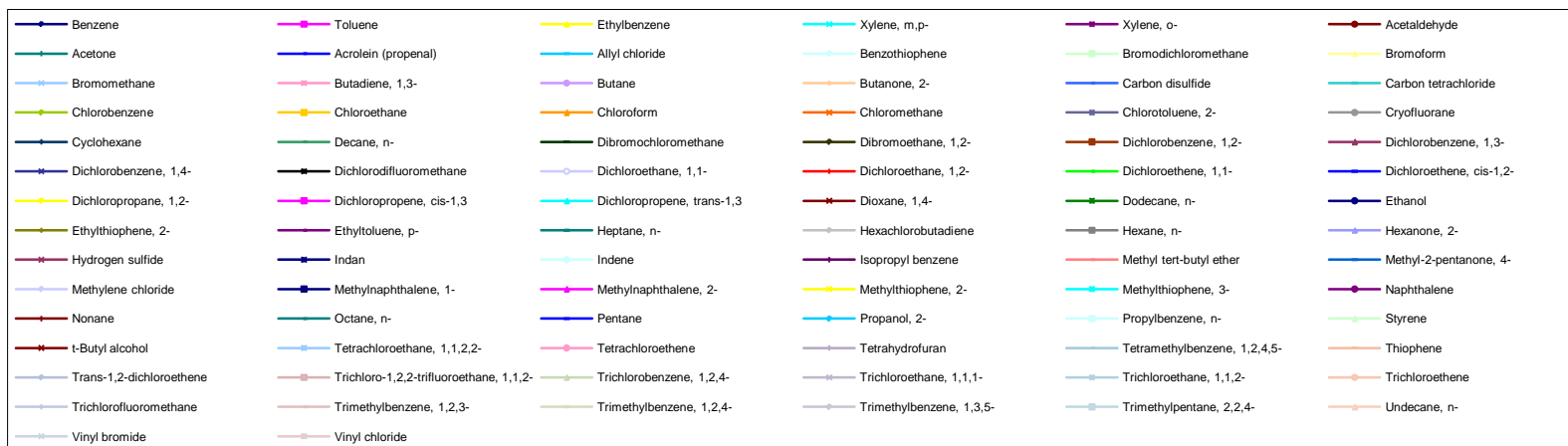
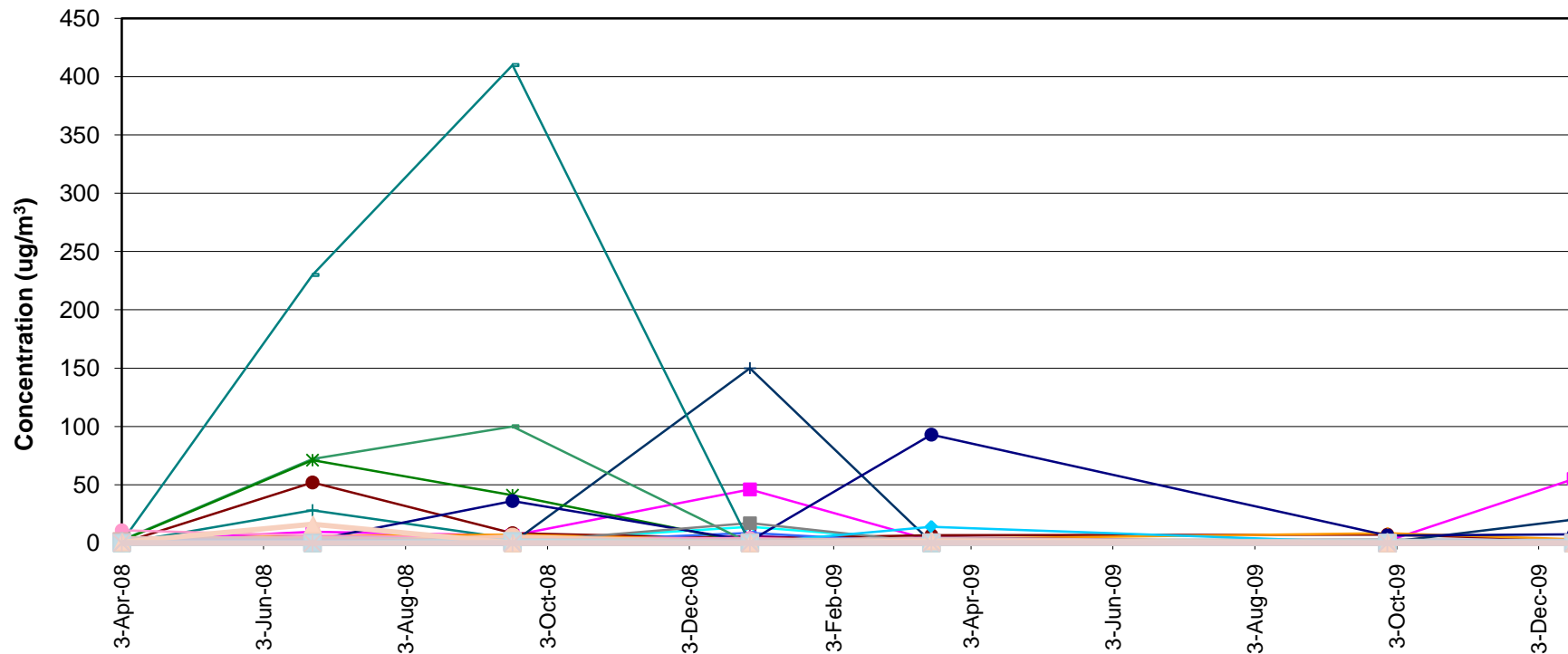
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-15



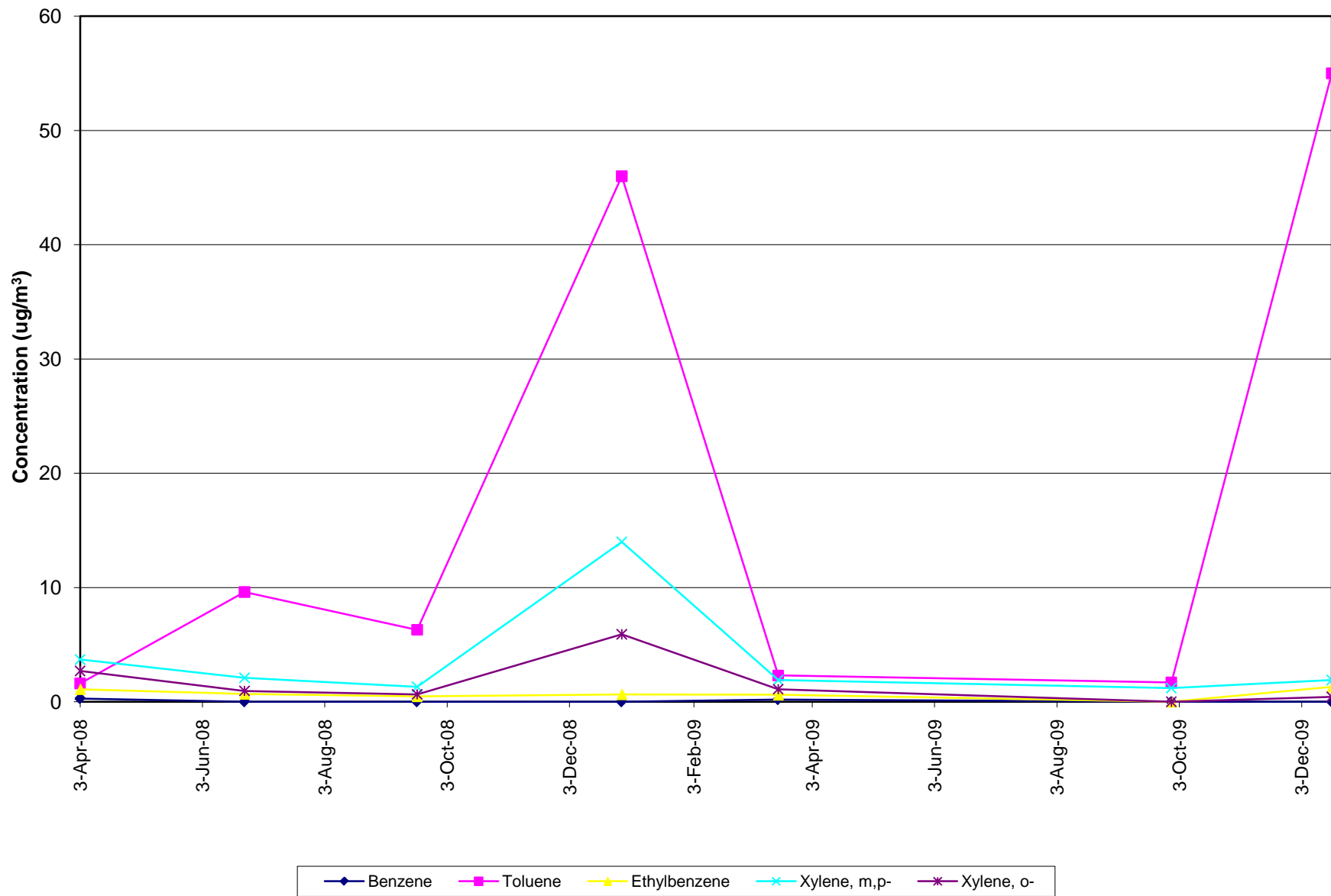
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-15 BTEX



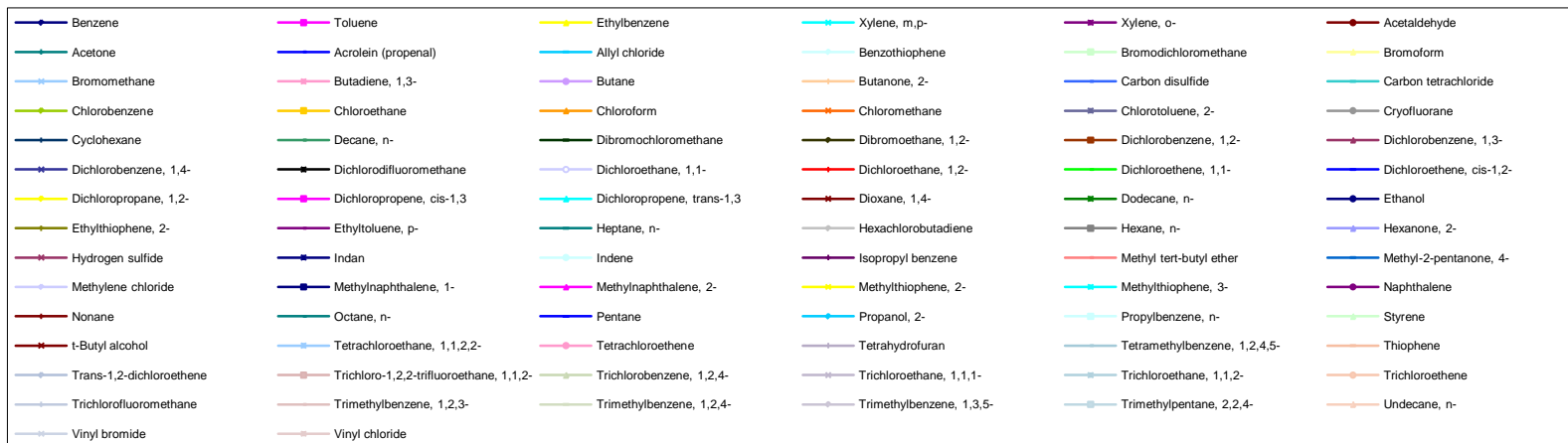
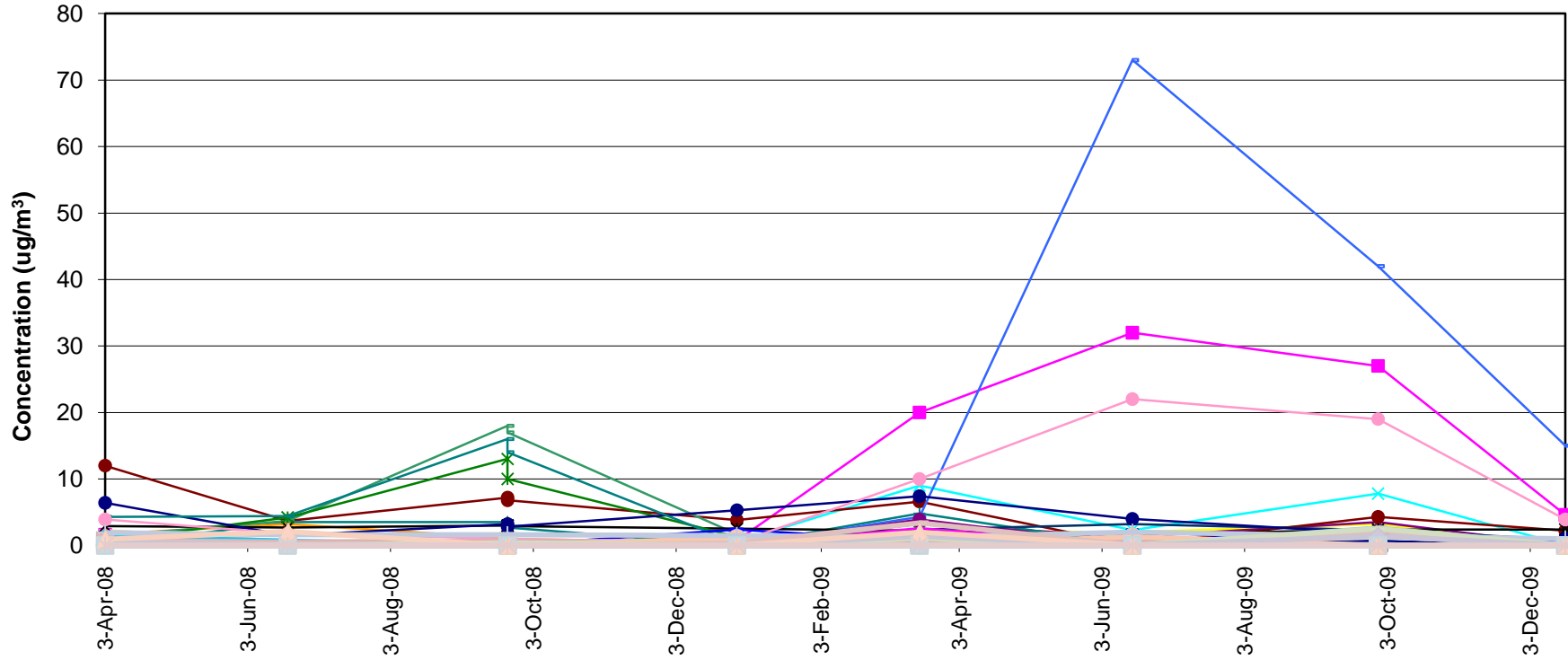
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-16



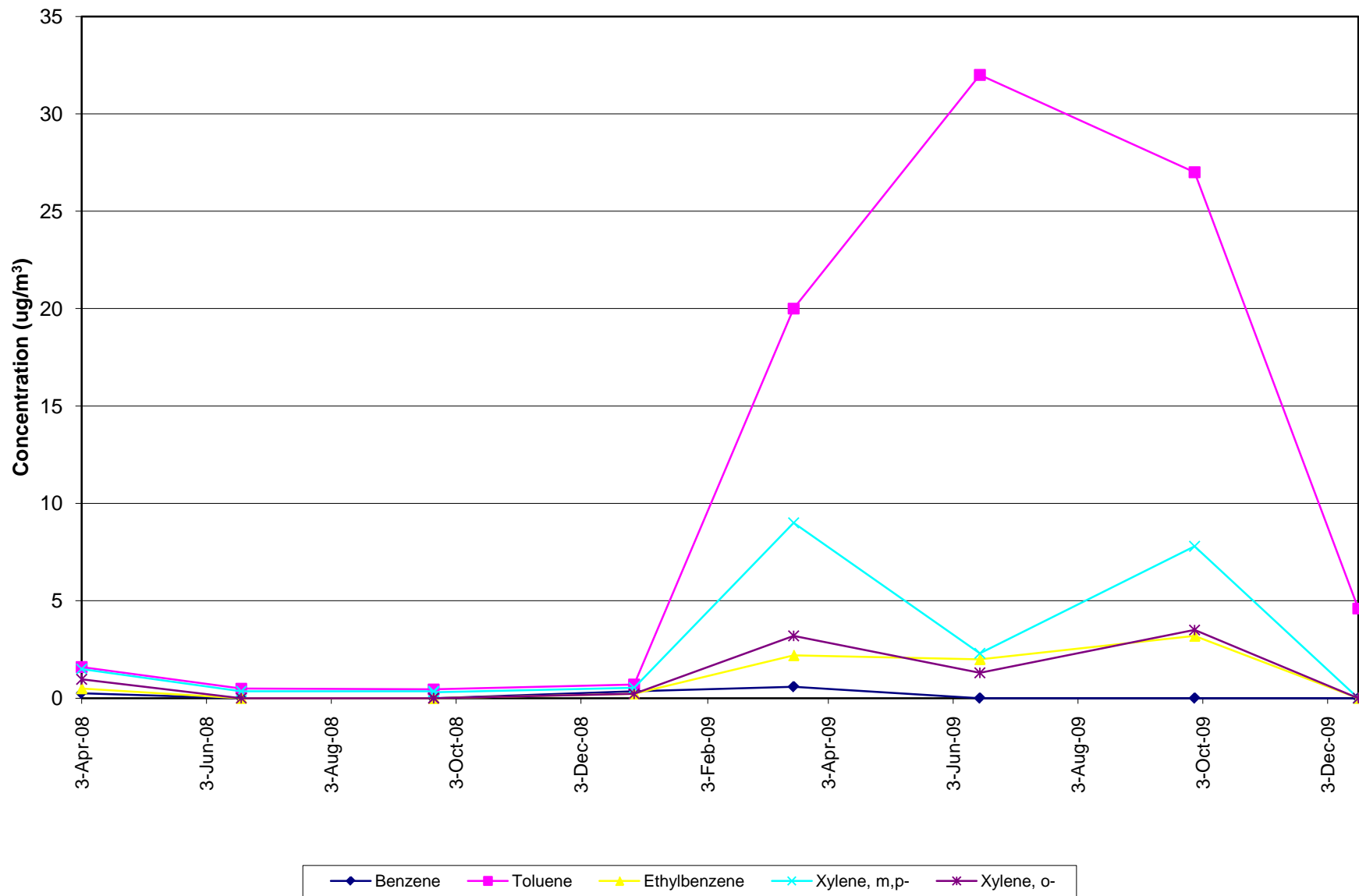
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 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-16 BTEX



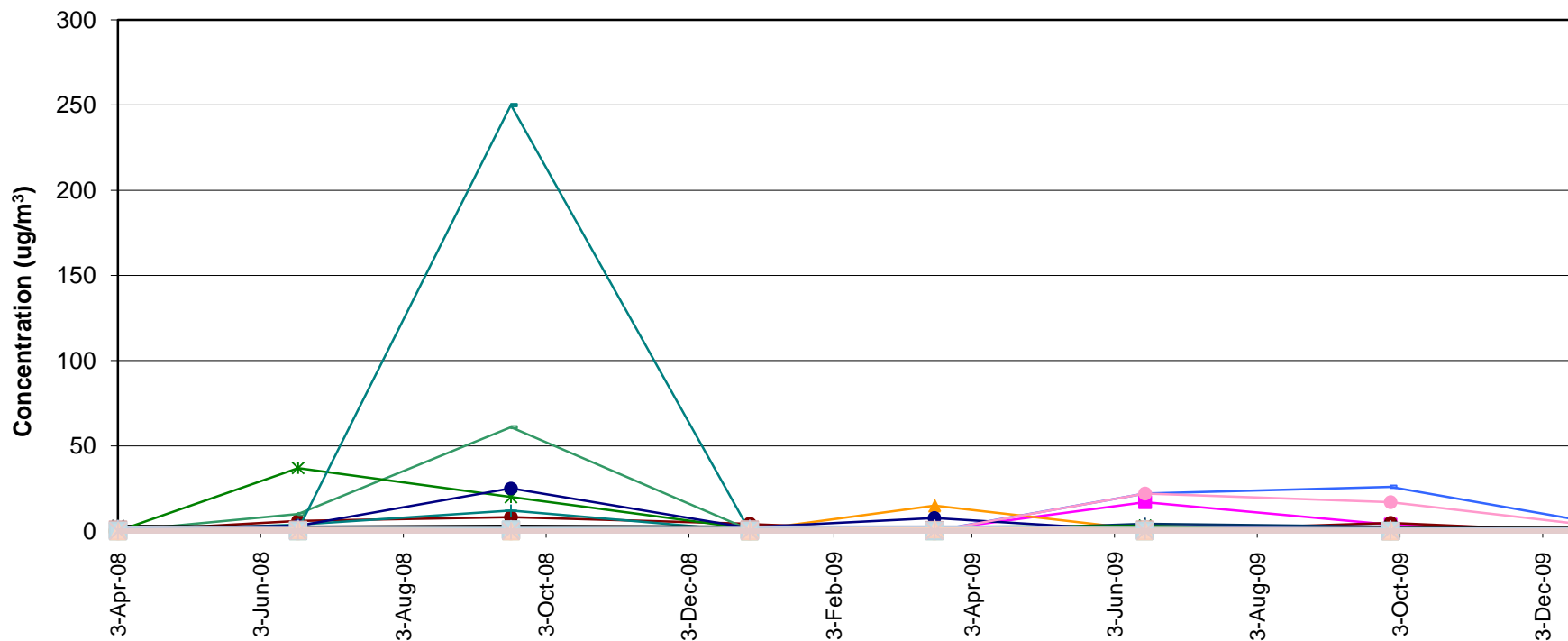
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-17



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-17 BTEX

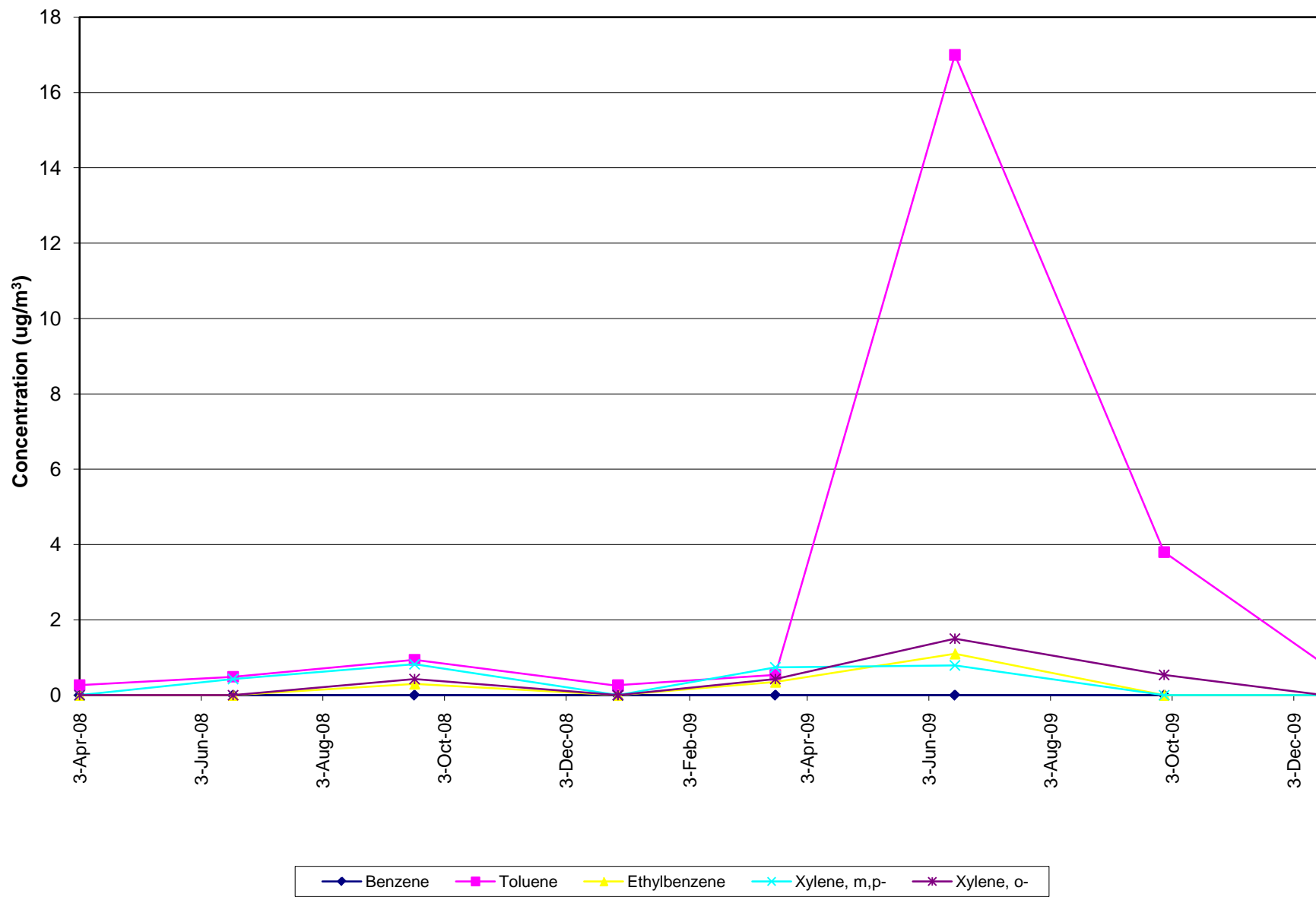


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-18

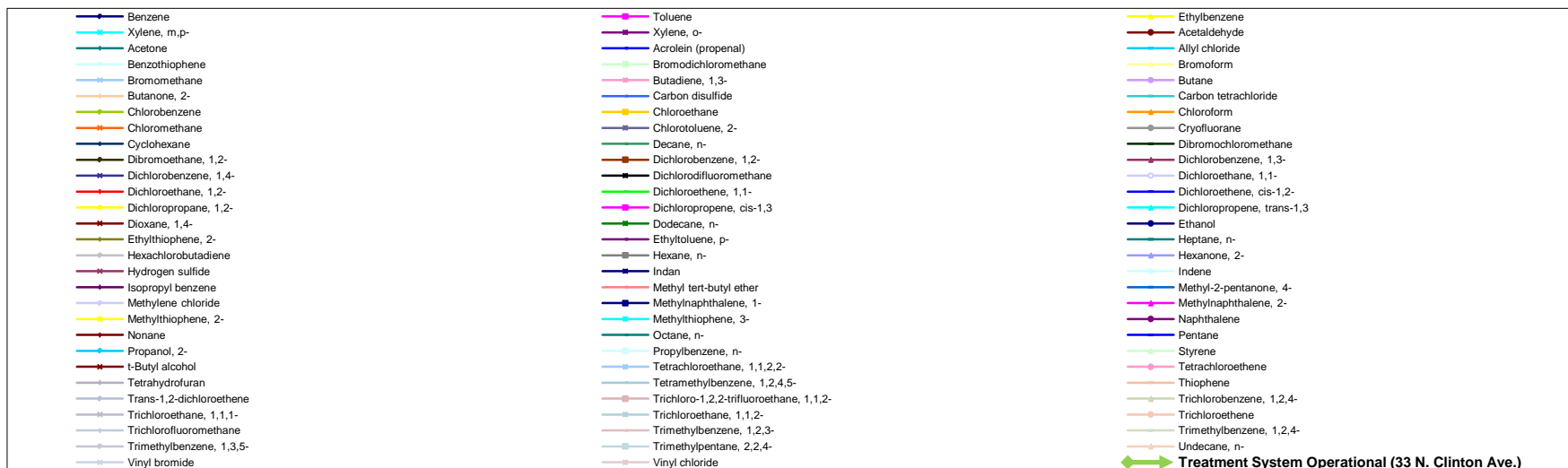
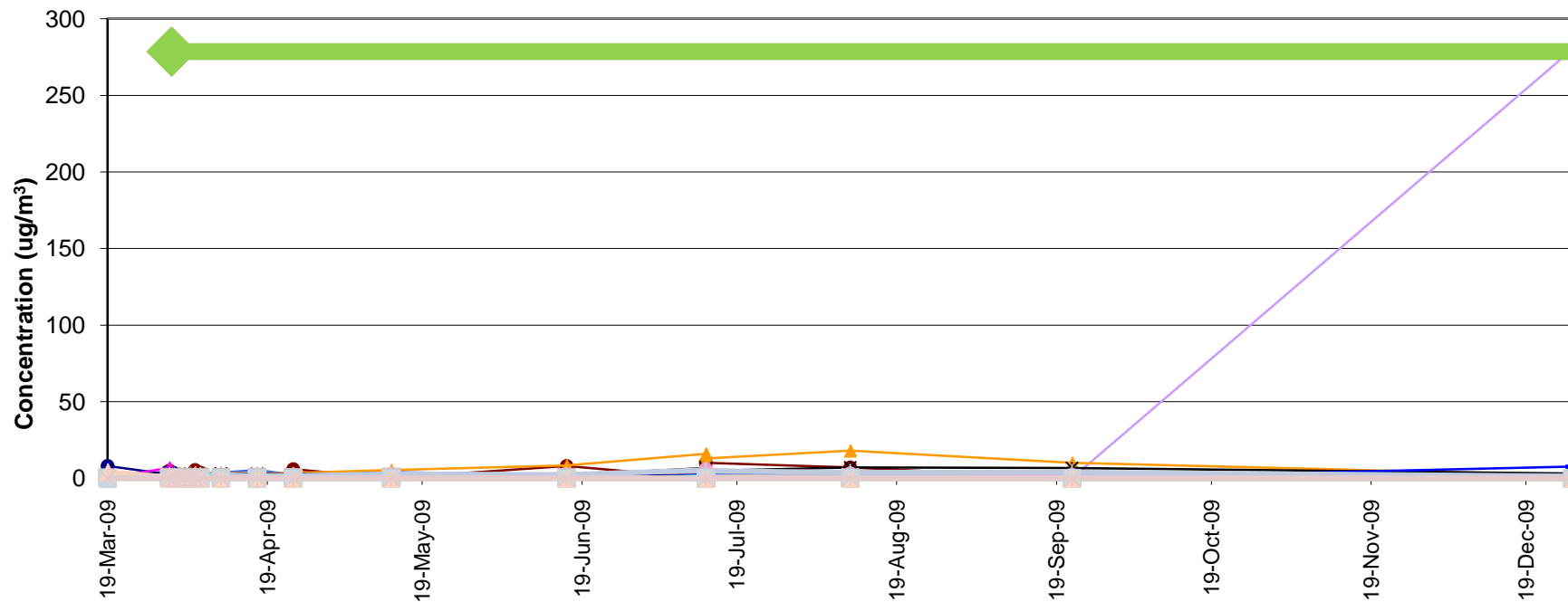


Benzene	Toluene	Ethylbenzene	Xylene, m,p-	Xylene, o-	Acetaldehyde
Acetone	Acrolein (propenal)	Allyl chloride	Benzothiophene	Bromodichloromethane	Bromoform
Bromomethane	Butadiene, 1,3-	Butane	Butanone, 2-	Carbon disulfide	Carbon tetrachloride
Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorotoluene, 2-	Cryofluorane
Cyclohexane	Decane, n-	Dibromochloromethane	Dibromoethane, 1,2-	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-
Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethene, 1,1-	Dichloroethene, cis-1,2-
Dichloropropane, 1,2-	Dichloropropene, cis-1,3	Dichloropropene, trans-1,3	Dioxane, 1,4-	Dodecane, n-	Ethanol
Ethylthiophene, 2-	Ethyltoluene, p-	Heptane, n-	Hexachlorobutadiene	Hexane, n-	Hexanone, 2-
Hydrogen sulfide	Indan	Indene	Isopropyl benzene	Methyl tert-butyl ether	Methyl-2-pentanone, 4-
Methylene chloride	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Methylthiophene, 2-	Methylthiophene, 3-	Naphthalene
Nonane	Octane, n-	Pentane	Propanol, 2-	Propylbenzene, n-	Styrene
t-Butyl alcohol	Tetrachloroethane, 1,1,2,2-	Tetrachloroethene	Tetrahydrofuran	Tetramethylbenzene, 1,2,4,5-	Thiophene
Trans-1,2-dichloroethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichlorobenzene, 1,2,4-	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethene
Trichlorofluoromethane	Trimethylbenzene, 1,2,3-	Trimethylbenzene, 1,2,4-	Trimethylbenzene, 1,3,5-	Trimethylpentane, 2,2,4-	Undecane, n-
Vinyl bromide	Vinyl chloride				

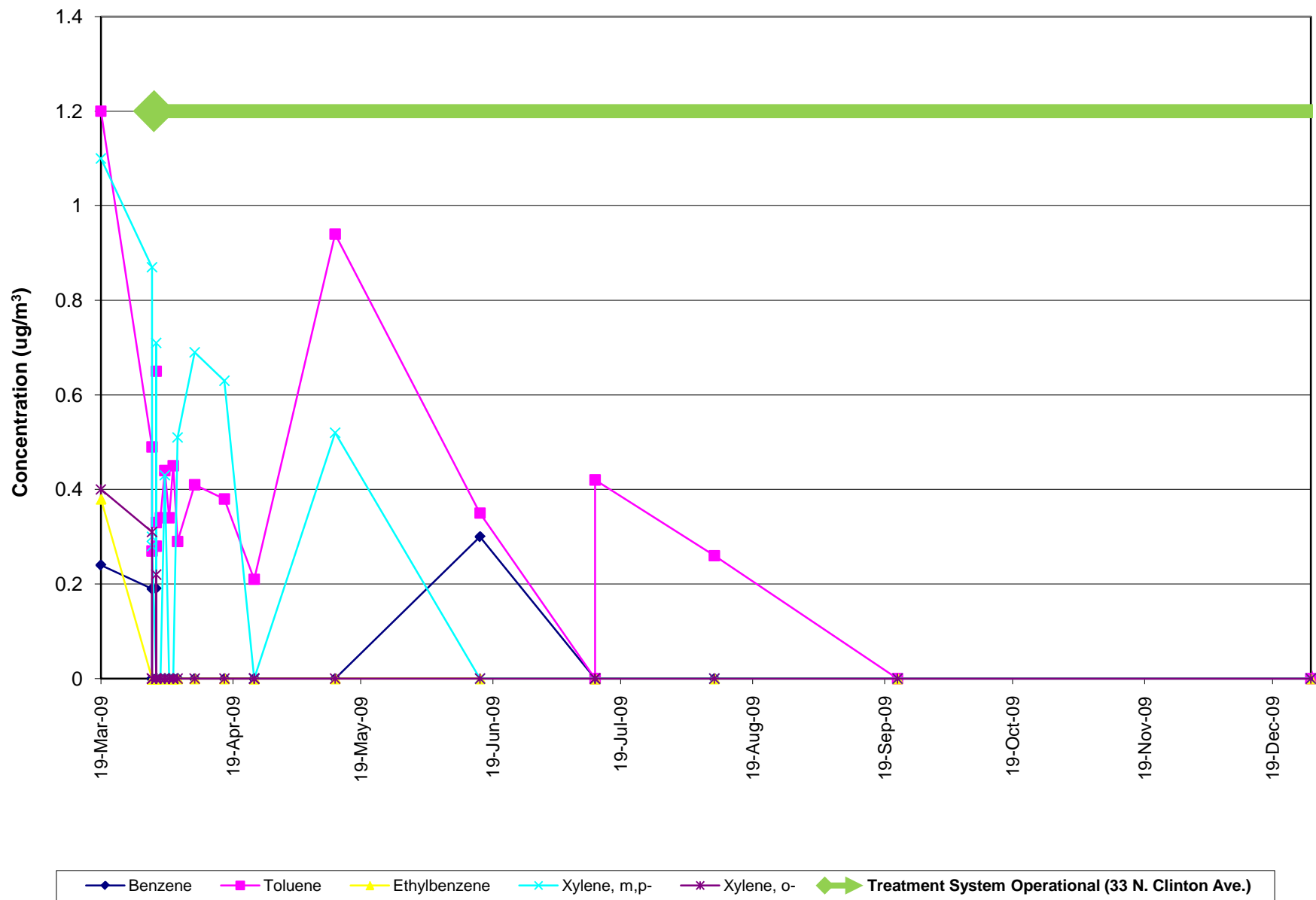
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-18 BTEX



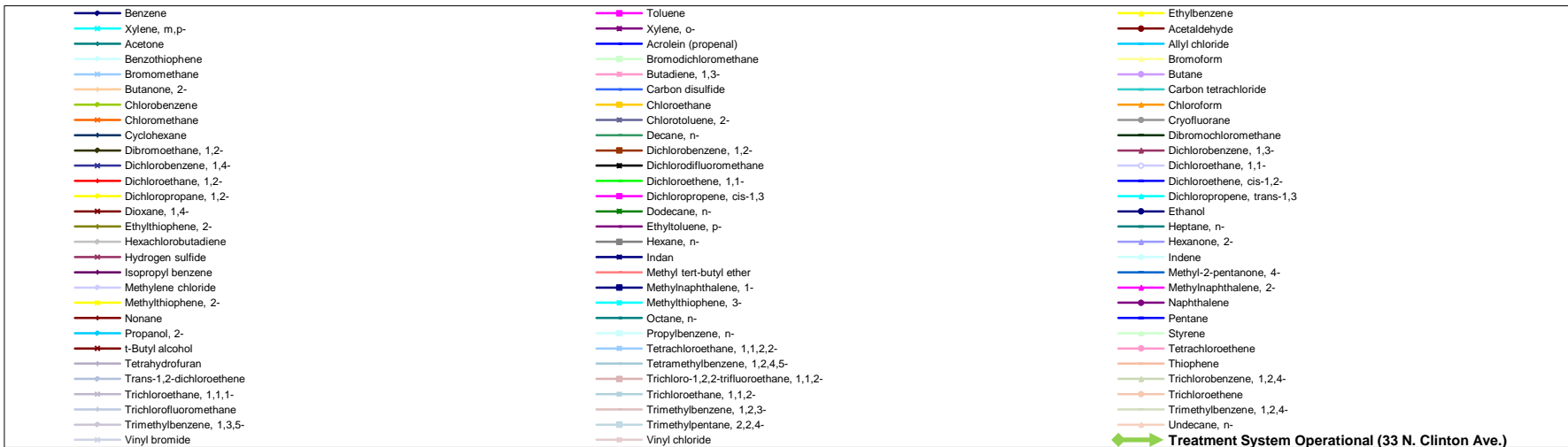
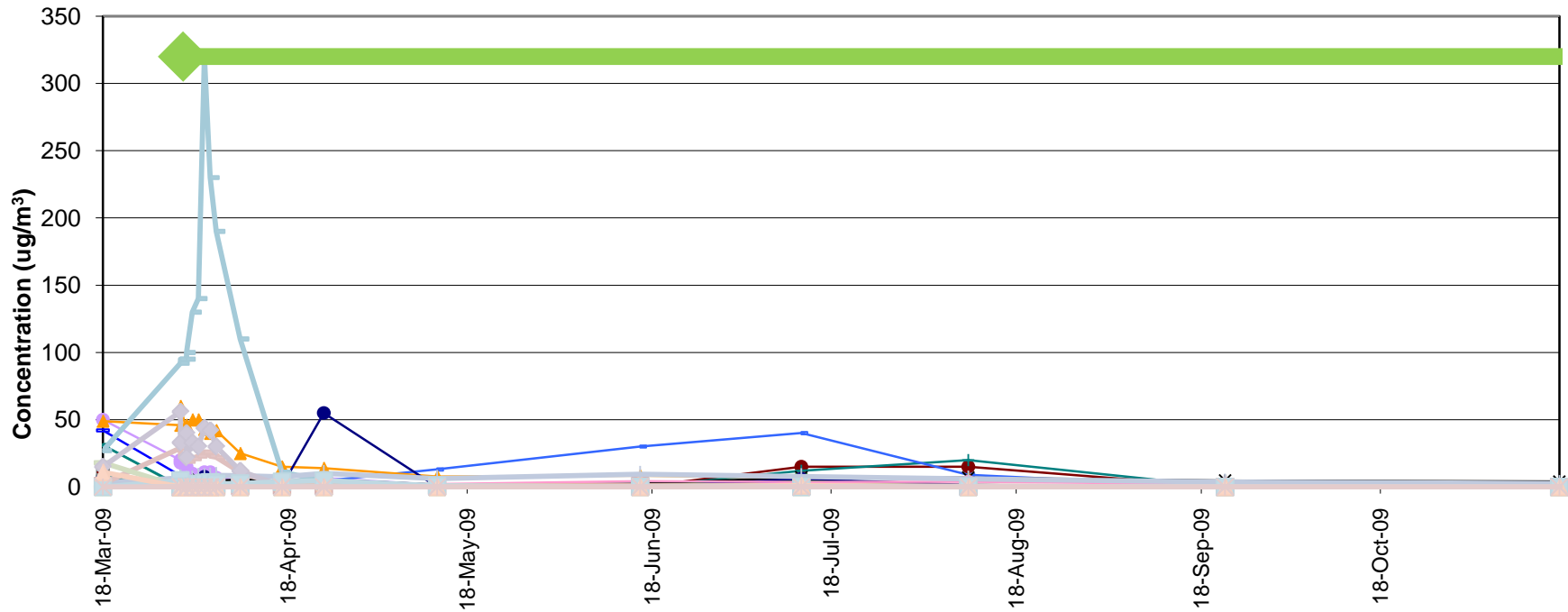
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-19



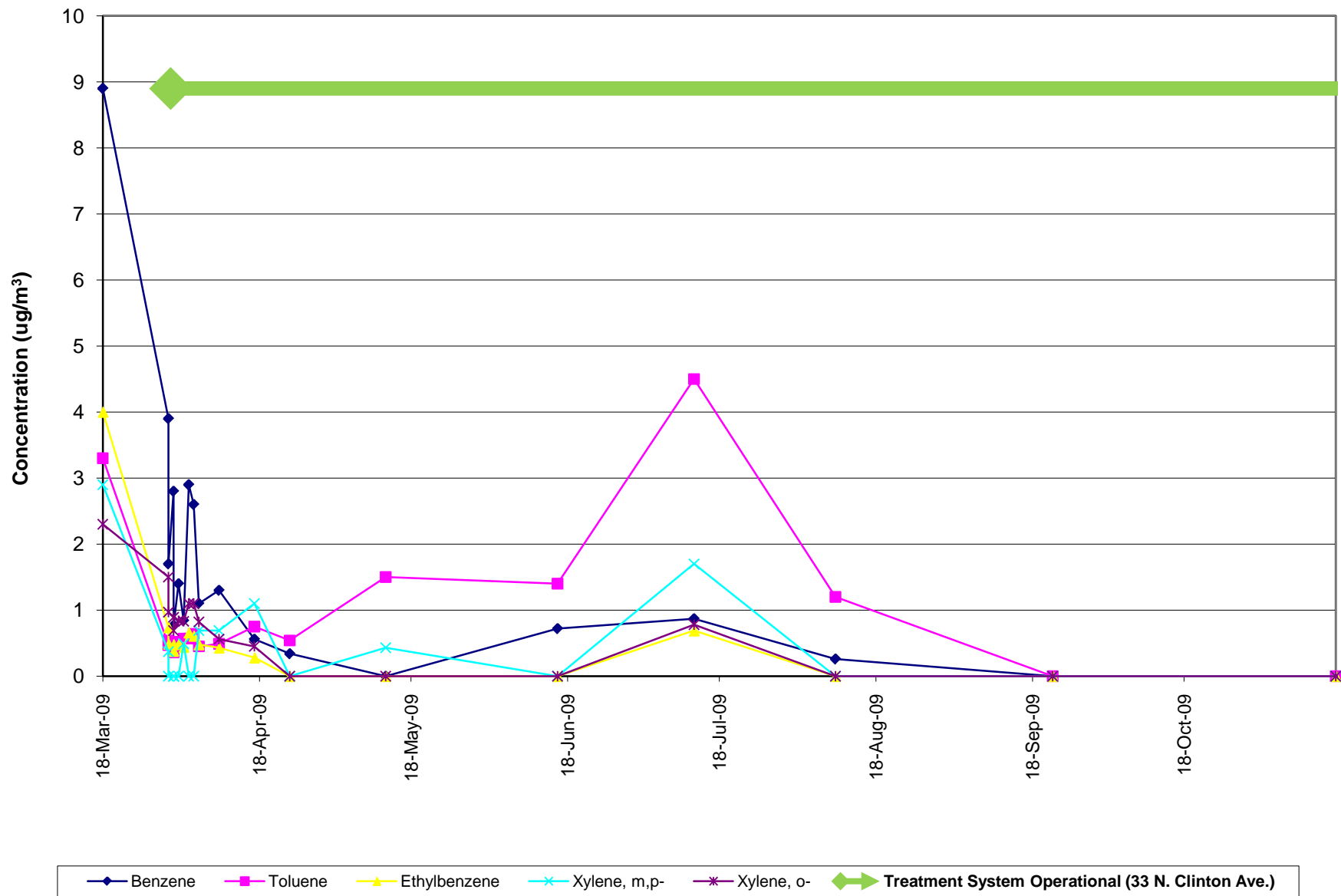
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-19 BTEX



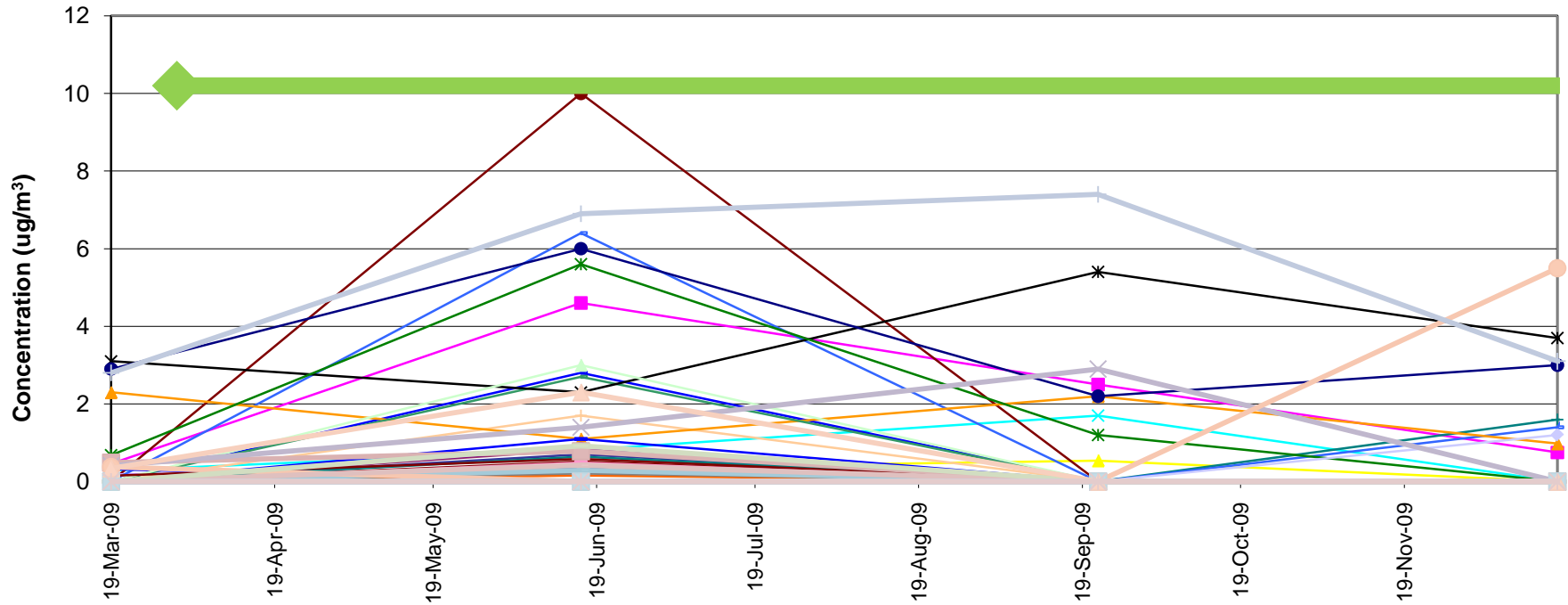
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-20



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-20 BTEX



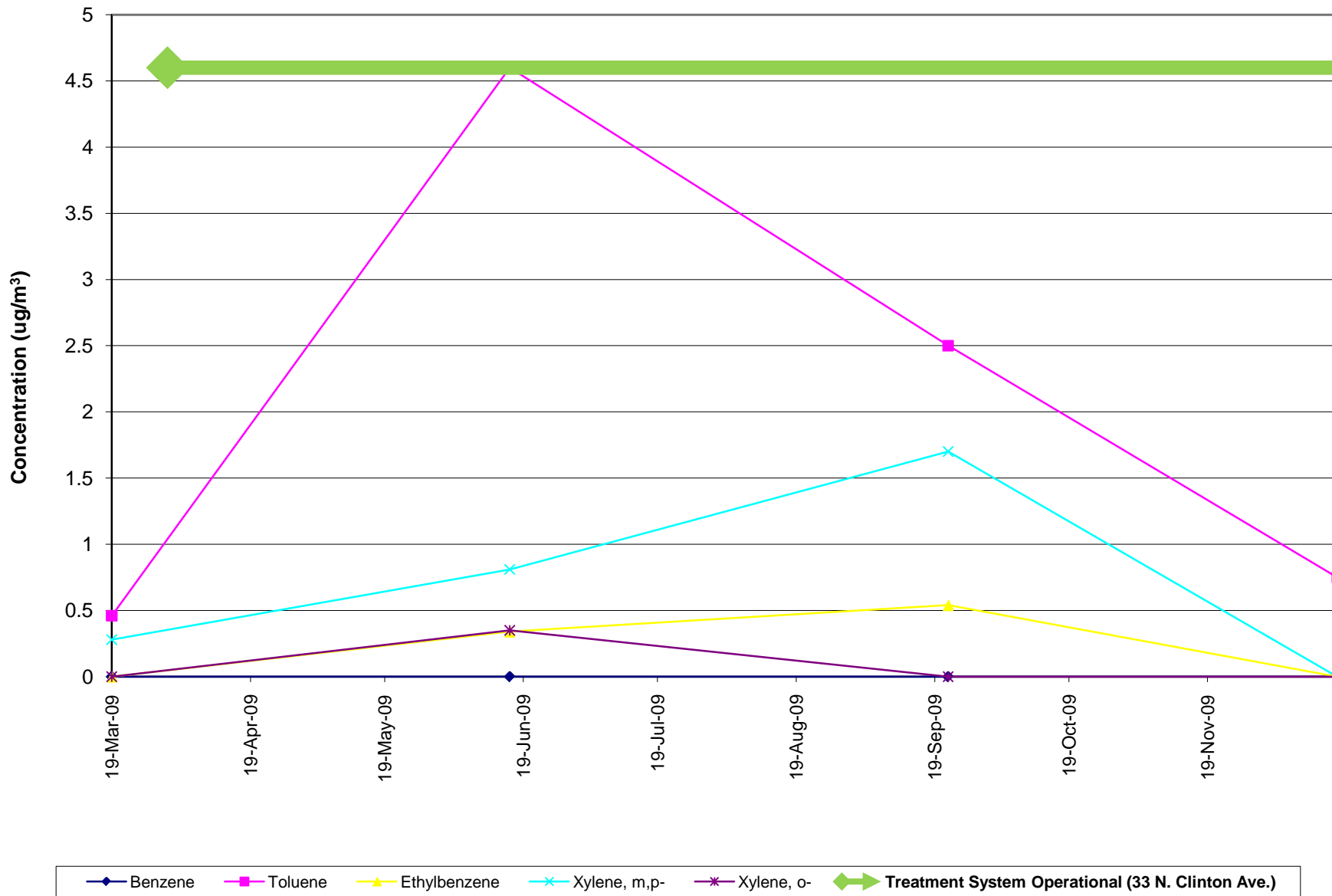
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-21



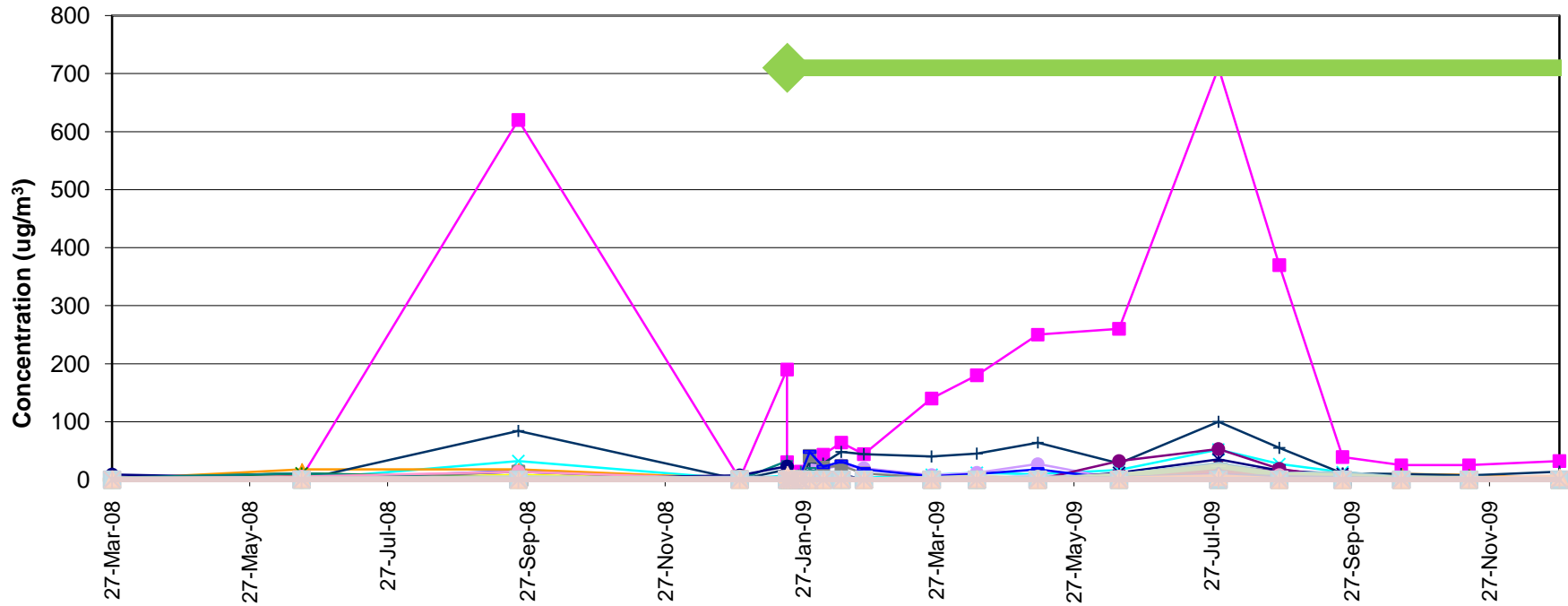
- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ● Benzene ● Xylene, m,p- ● Acetone ● Benzothiophene ● Bromomethane ● Butanone, 2- ● Chlorobenzene ● Chloromethane ● Cyclohexane ● Dibromoethane, 1,2- ● Dichlorobenzene, 1,4- ● Dichloroethane, 1,2- ● Dichloropropane, 1,2- ● Dioxane, 1,4- ● Ethylthiophene, 2- ● Hexachlorobutadiene ● Hydrogen sulfide ● Isopropyl benzene ● Methylene chloride ● Methylthiophene, 2- ● Nonane ● Propanol, 2- ● t-Butyl alcohol ● Tetrahydrofuran ● Trans-1,2-dichloroethene ● Trichloroethane, 1,1,1- ● Trichlorofluoromethane ● Trimethylbenzene, 1,3,5- ● Vinyl bromide | <ul style="list-style-type: none"> ● Toluene ● Xylene, o- ● Acrolein (propenal) ● Bromodichloromethane ● Butadiene, 1,3- ● Carbon disulfide ● Chloroethane ● Chlorotoluene, 2- ● Decane, n- ● Dichlorobenzene, 1,2- ● Dichlorodifluoromethane ● Dichloroethene, 1,1- ● Dichloropropene, cis-1,3 ● Dodecane, n- ● Ethyltoluene, p- ● Hexane, n- ● Indan ● Methyl tert-butyl ether ● Methylnaphthalene, 1- ● Methylthiophene, 3- ● Octane, n- ● Propylbenzene, n- ● Tetrachloroethane, 1,1,2,2- ● Tetramethylbenzene, 1,2,4,5- ● Trichloro-1,2,2-trifluoroethane, 1,1,2- ● Trichloroethane, 1,1,2- ● Trimethylbenzene, 1,2,3- ● Trimethylpentane, 2,2,4- ● Vinyl chloride | <ul style="list-style-type: none"> ● Ethylbenzene ● Acetaldehyde ● Allyl chloride ● Bromoform ● Butane ● Carbon tetrachloride ● Chloroform ● Cryofluorane ● Dibromochloromethane ● Dichlorobenzene, 1,3- ● Dichloroethane, 1,1- ● Dichloroethene, cis-1,2- ● Dichloropropene, trans-1,3 ● Ethanol ● Heptane, n- ● Hexanone, 2- ● Indene ● Methyl-2-pentanone, 4- ● Methylnaphthalene, 2- ● Naphthalene ● Pentane ● Styrene ● Tetrachloroethene ● Thiophene ● Trichlorobenzene, 1,2,4- ● Trichloroethene ● Trimethylbenzene, 1,2,4- ● Undecane, n- ◆ Treatment System Operational (33 N. Clinton Ave.) |
|--|--|--|

Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

OU2SG-21 BTEX

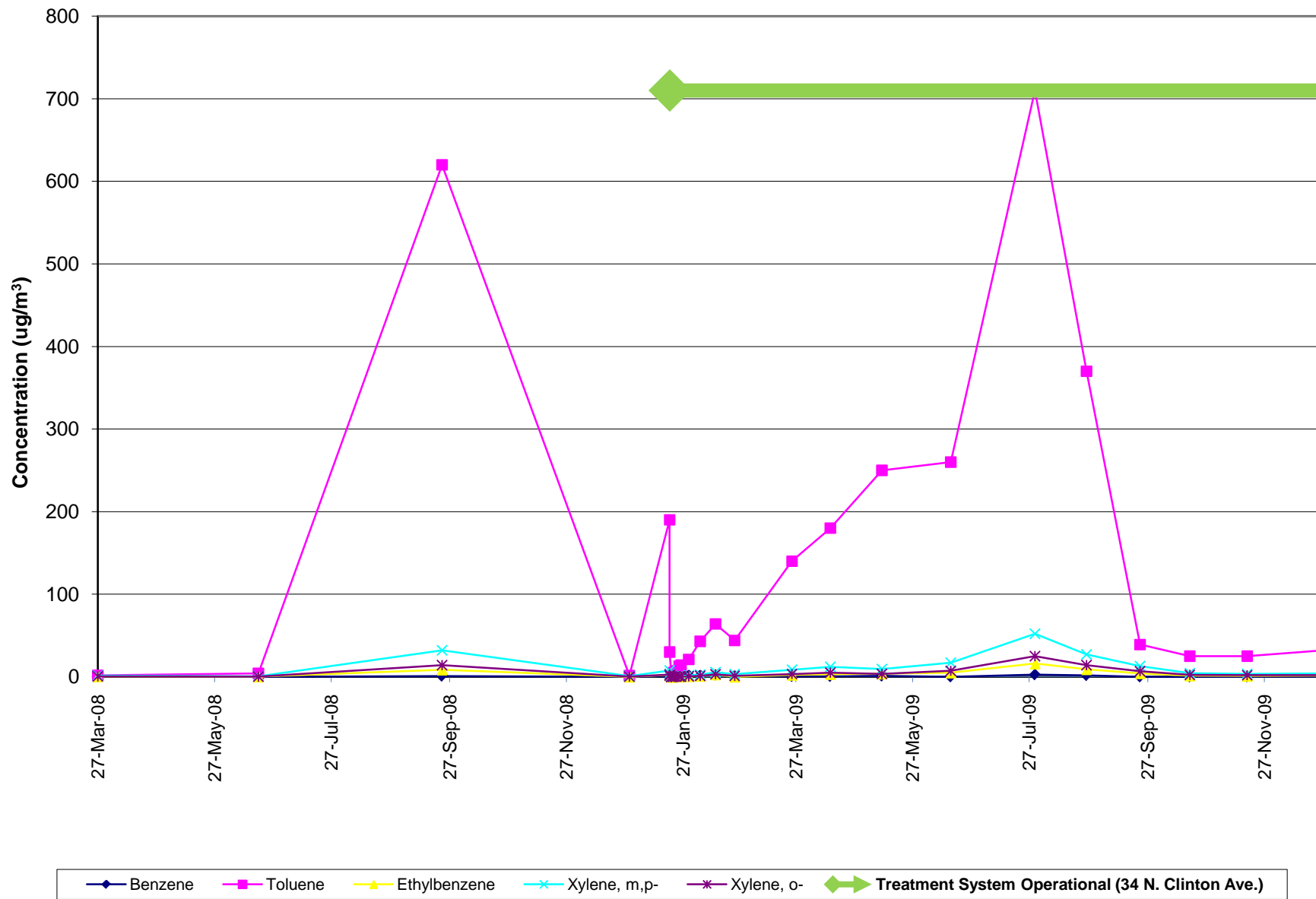


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-22

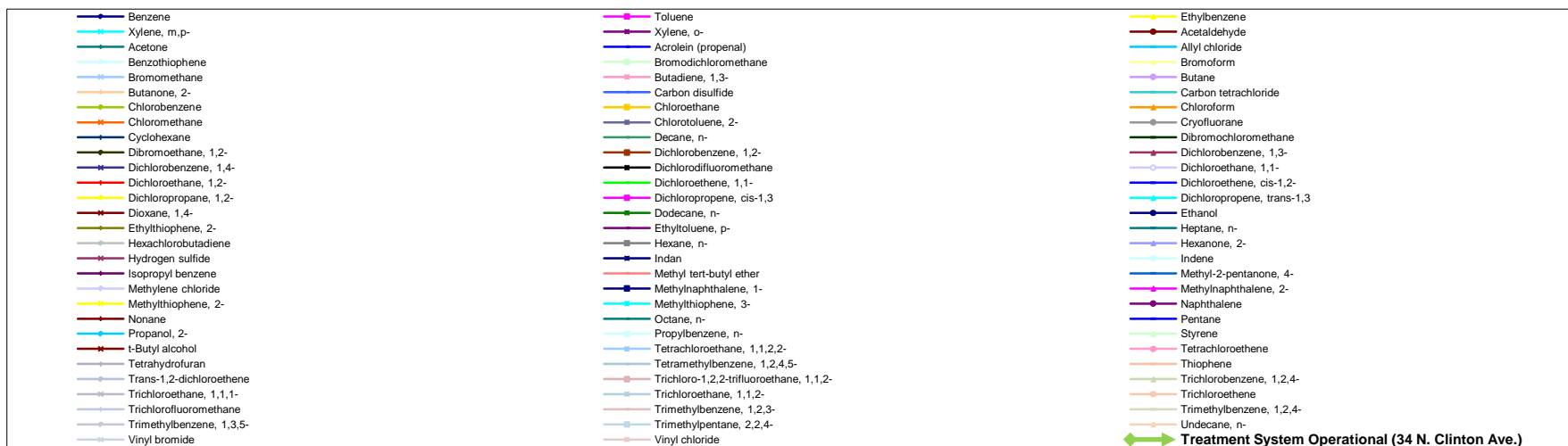
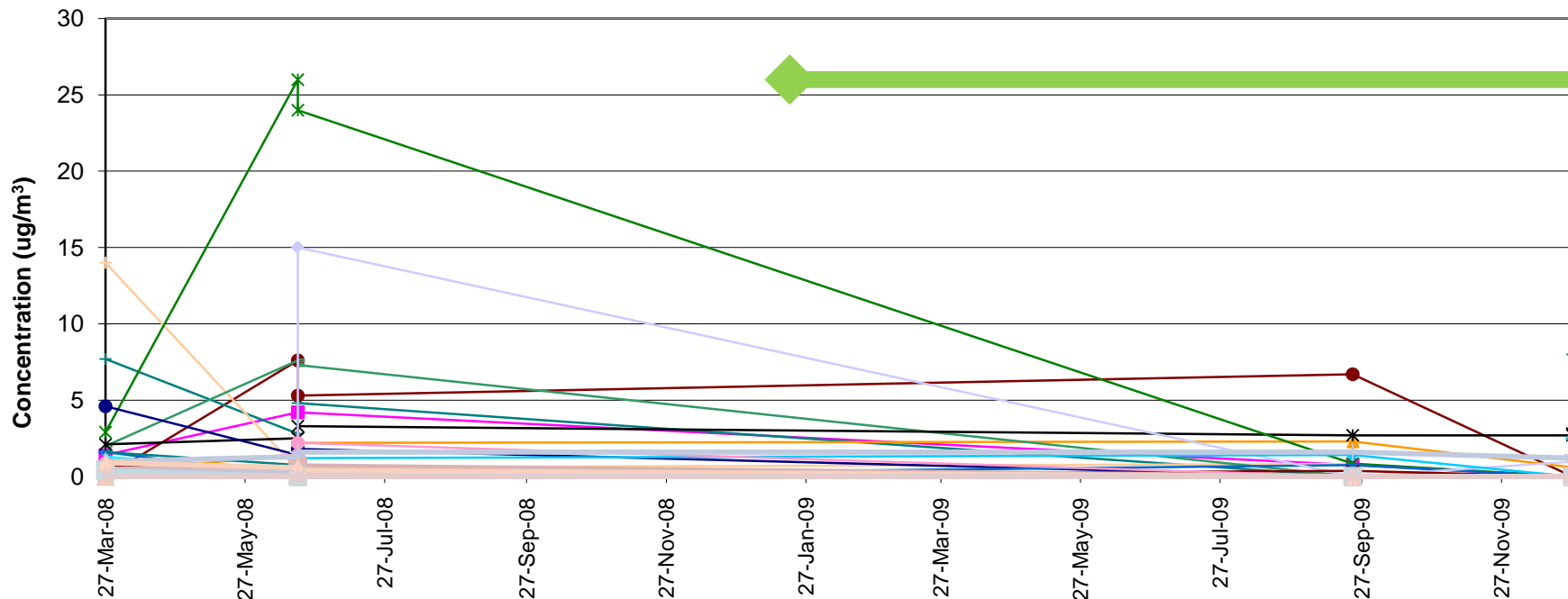


● Benzene	● Toluene	● Ethylbenzene
● Xylene, m,p-	● Xylene, o-	● Acetaldehyde
● Acetone	● Acrolein (propenal)	● Allyl chloride
● Benzothiophene	● Bromodichloromethane	● Bromoform
● Bromomethane	● Butadiene, 1,3-	● Butane
● Butanone, 2-	● Carbon disulfide	● Carbon tetrachloride
● Chlorobenzene	● Chloroethane	● Chloroform
● Chloromethane	● Chlorotoluene, 2-	● Cryofluorane
● Cyclohexane	● Decane, n-	● Dibromochloromethane
● Dibromoethane, 1,2-	● Dichlorobenzene, 1,2-	● Dichlorobenzene, 1,3-
● Dichlorobenzene, 1,4-	● Dichlorodifluoromethane	● Dichloroethane, 1,1-
● Dichloroethane, 1,2-	● Dichloroethane, 1,1-	● Dichloroethane, cis-1,2-
● Dichloropropane, 1,2-	● Dichloropropene, cis-1,3	● Dichloropropene, trans-1,3
● Dioxane, 1,4-	● Dodecane, n-	● Ethanol
● Ethylthiophene, 2-	● Ethyltoluene, p-	● Heptane, n-
● Hexachlorobutadiene	● Hexane, n-	● Hexanone, 2-
● Hydrogen sulfide	● Indan	● Indene
● Isopropyl benzene	● Methyl tert-butyl ether	● Methyl-2-pentanone, 4-
● Methylene chloride	● Methylinaphthalene, 1-	● Methylinaphthalene, 2-
● Methylthiophene, 2-	● Methylthiophene, 3-	● Naphthalene
● Nonane	● Octane, n-	● Pentane
● Propanol, 2-	● Propylbenzene, n-	● Styrene
● t-Butyl alcohol	● Tetrachloroethane, 1,1,2,2-	● Tetrachloroethene
● Tetrahydrofuran	● Tetramethylbenzene, 1,2,4,5-	● Thiophene
● Trans-1,2-dichloroethene	● Trichloro-1,2,2-trifluoroethane, 1,1,2-	● Trichlorobenzene, 1,2,4-
● Trichloroethane, 1,1,1-	● Trichloroethane, 1,1,2-	● Trichloroethene
● Trichlorofluoromethane	● Trimethylbenzene, 1,2,3-	● Trimethylbenzene, 1,2,4-
● Trimethylbenzene, 1,3,5-	● Trimethylpentane, 2,2,4-	● Undecane, n-
● Vinyl bromide	● Vinyl chloride	◆ Treatment System Operational (34 N. Clinton Ave.)

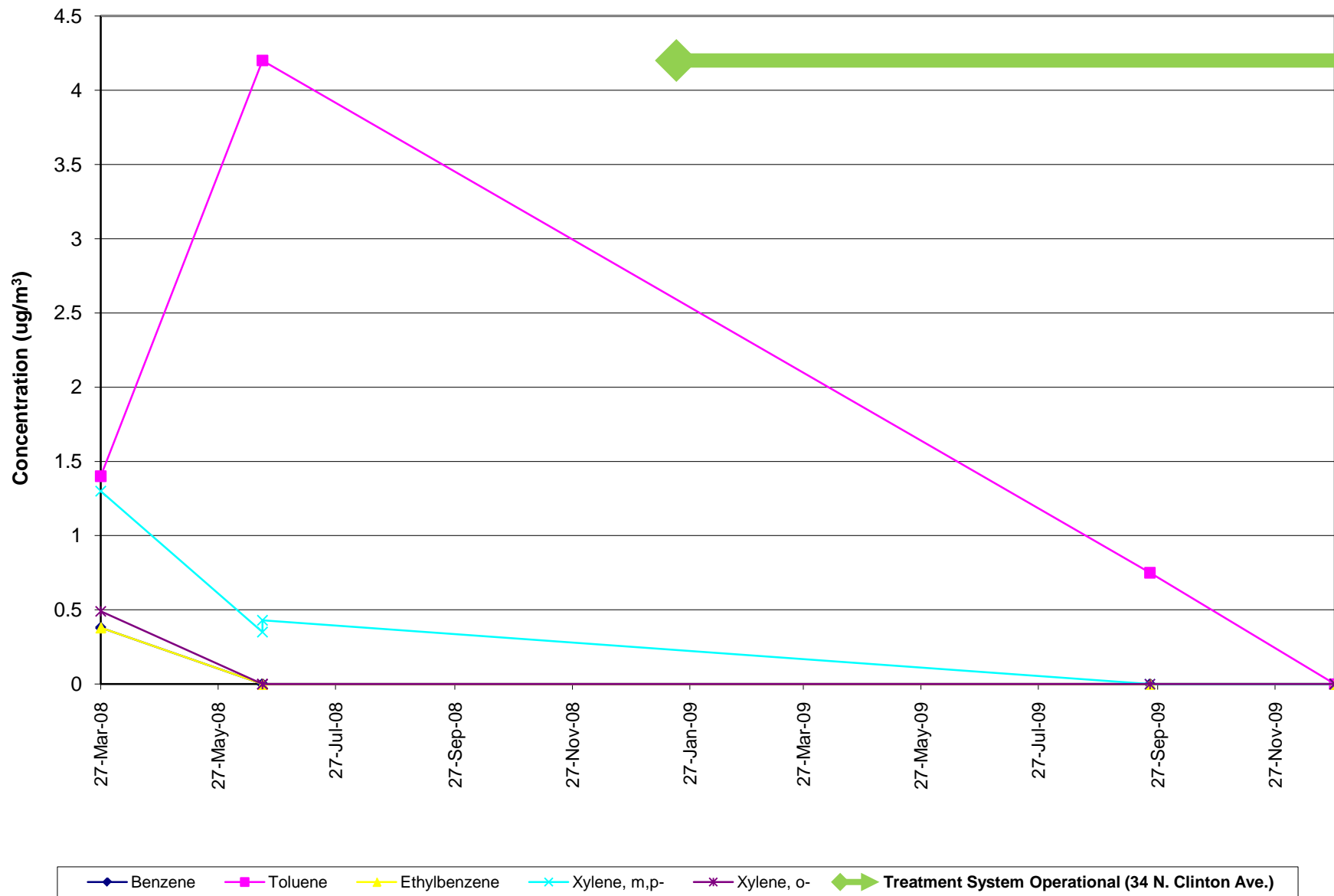
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-22 BTEX



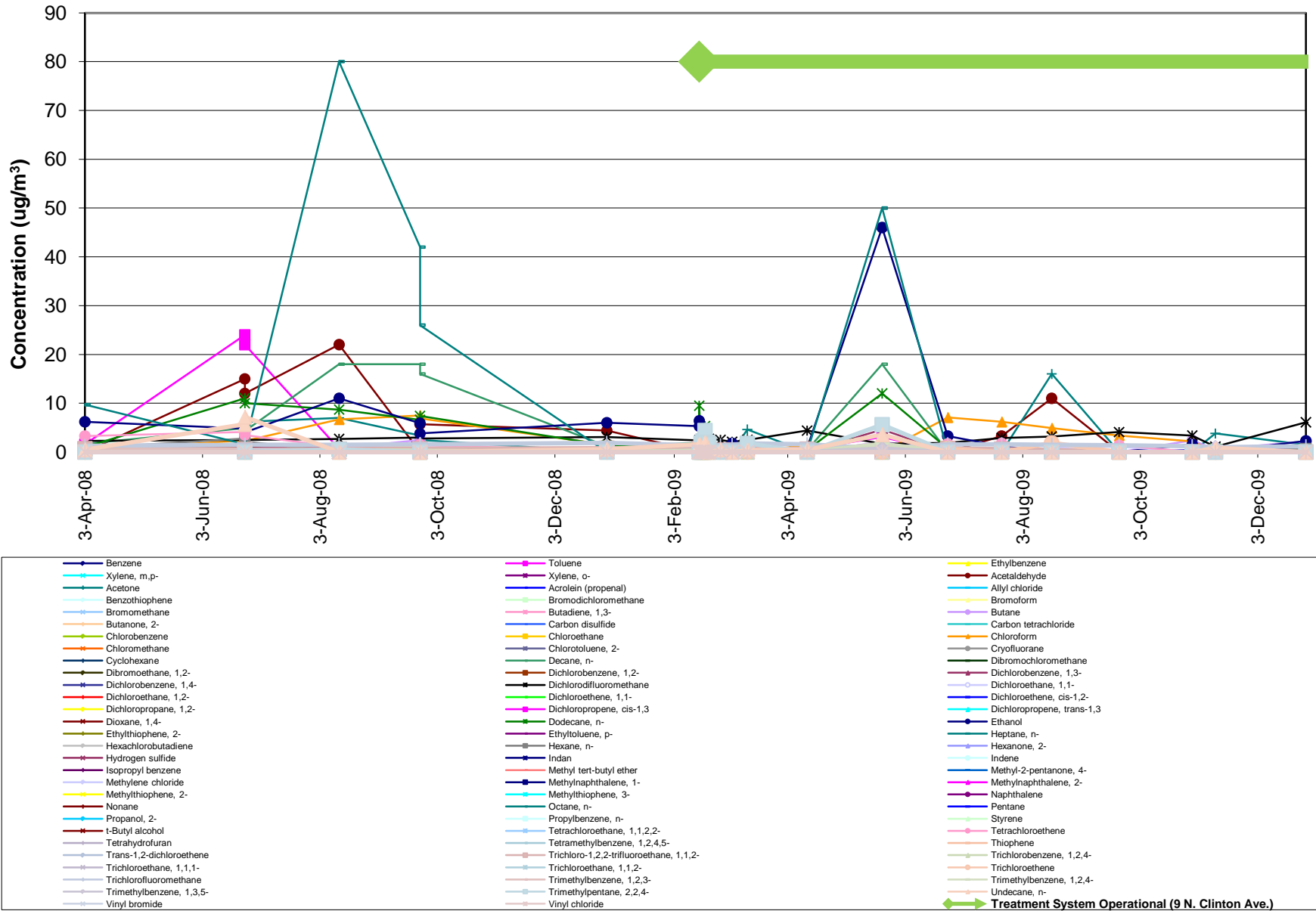
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-23



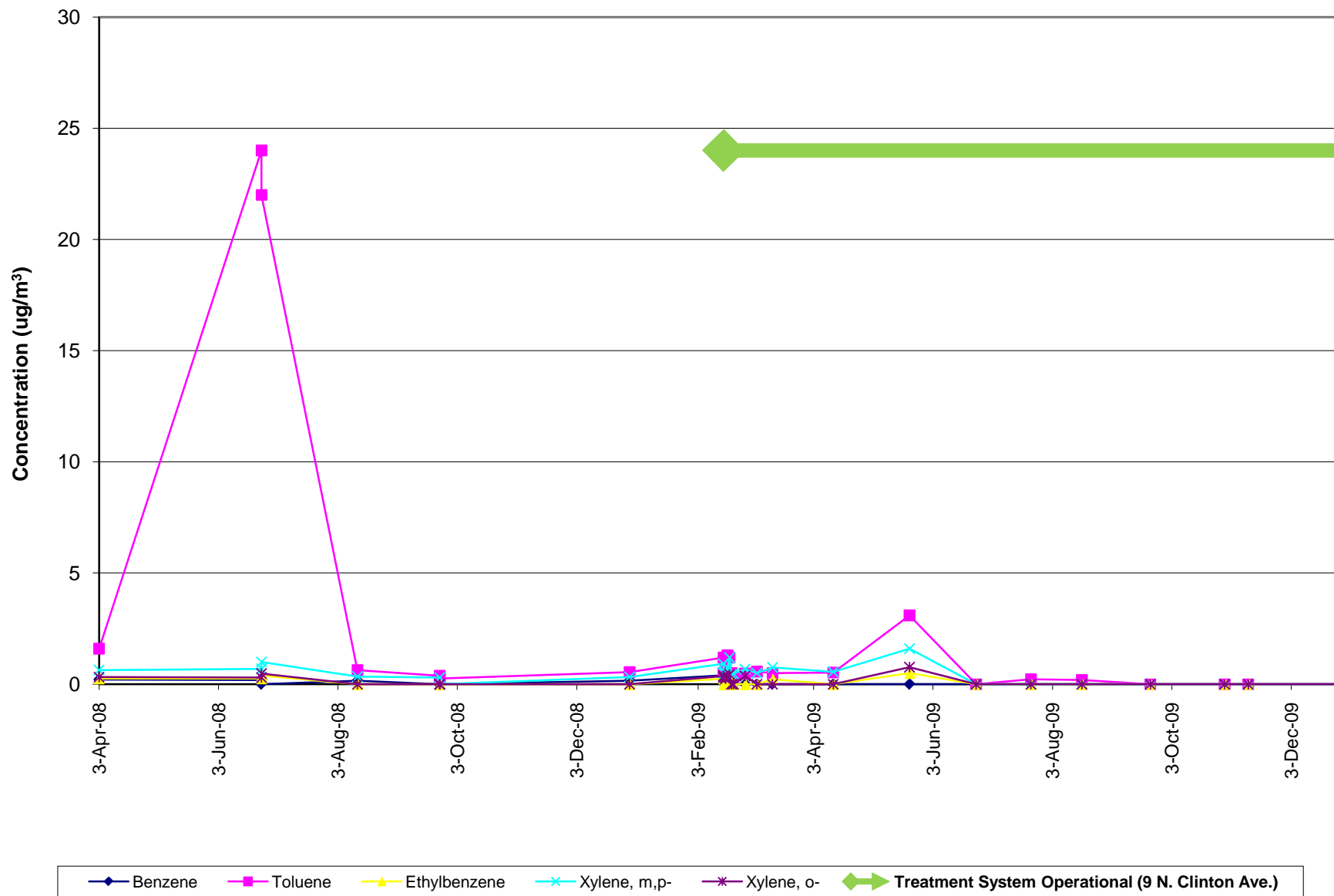
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-23 BTEX



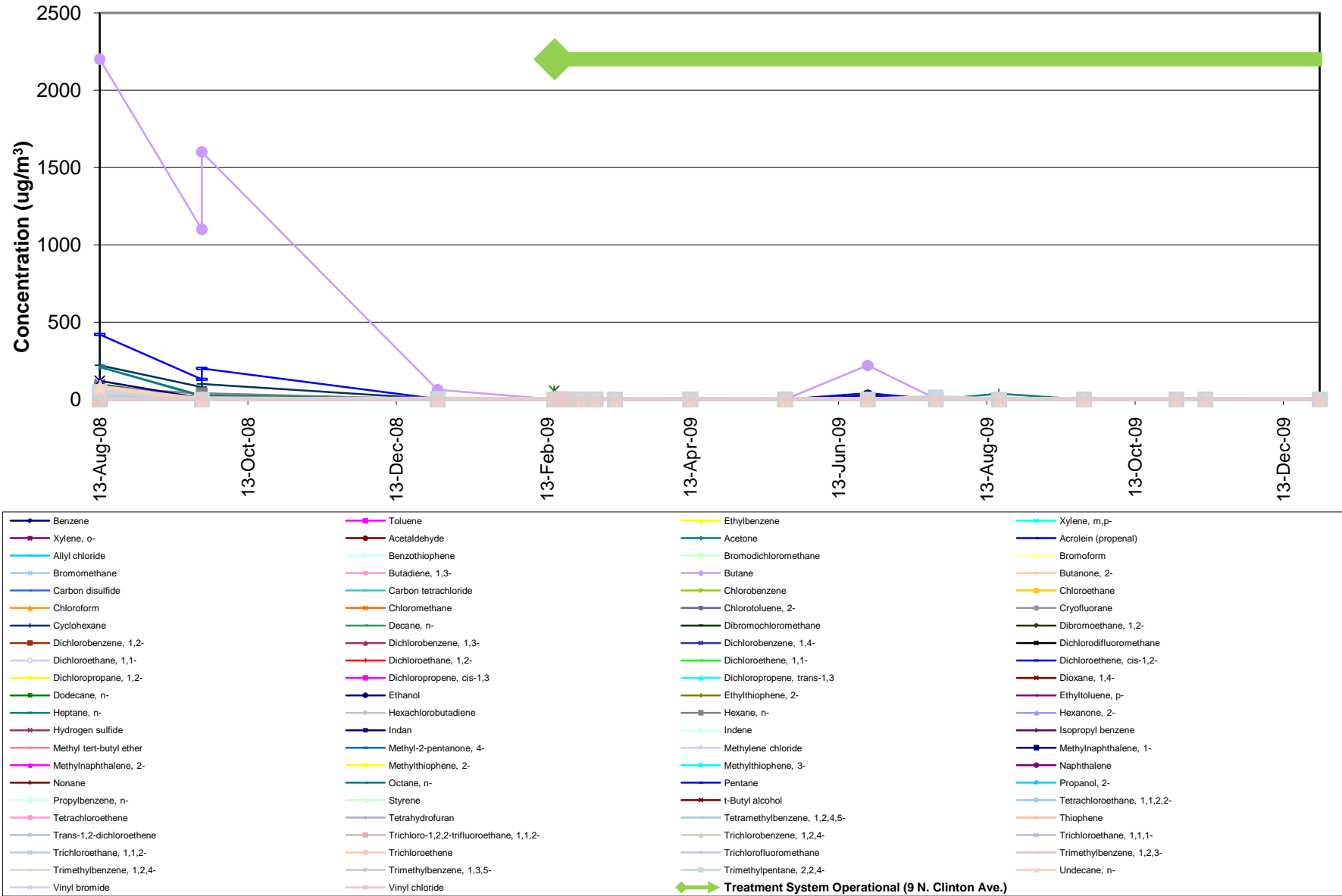
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-24



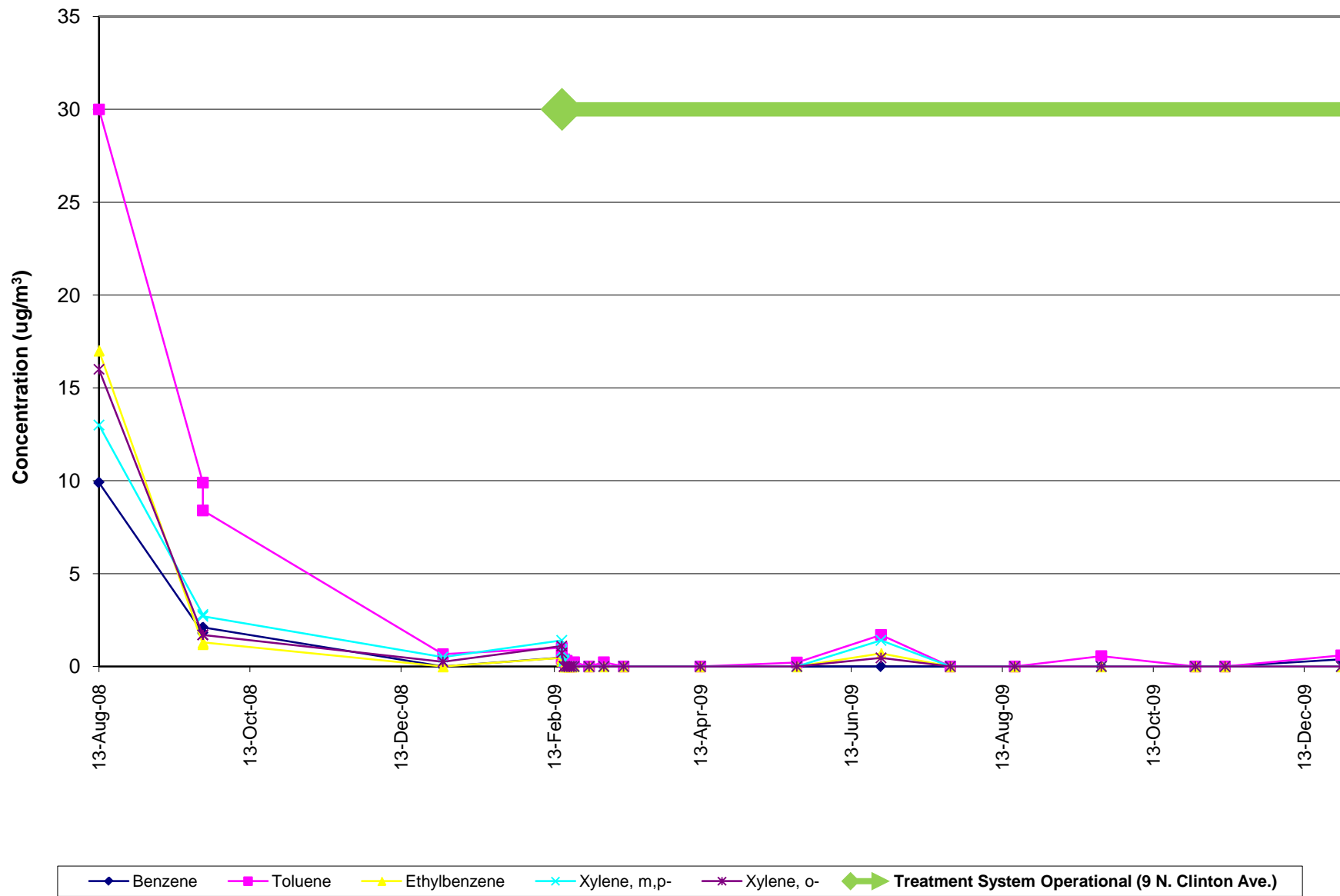
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-24 BTEX



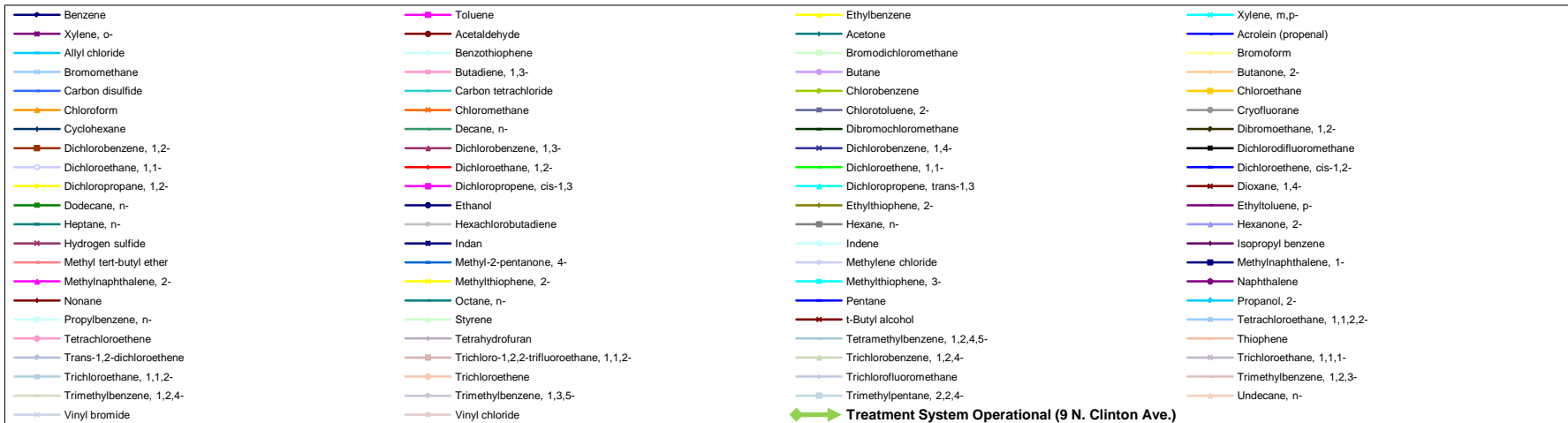
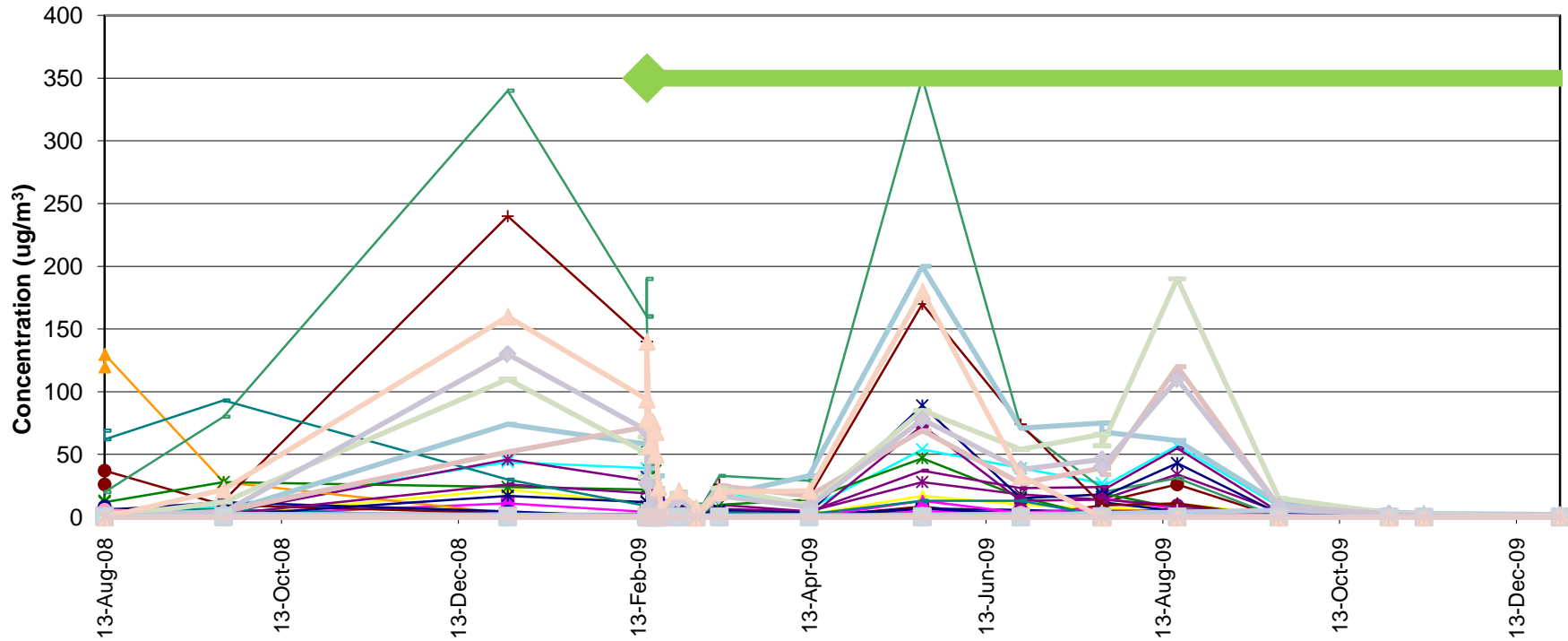
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-25



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-25 BTEX

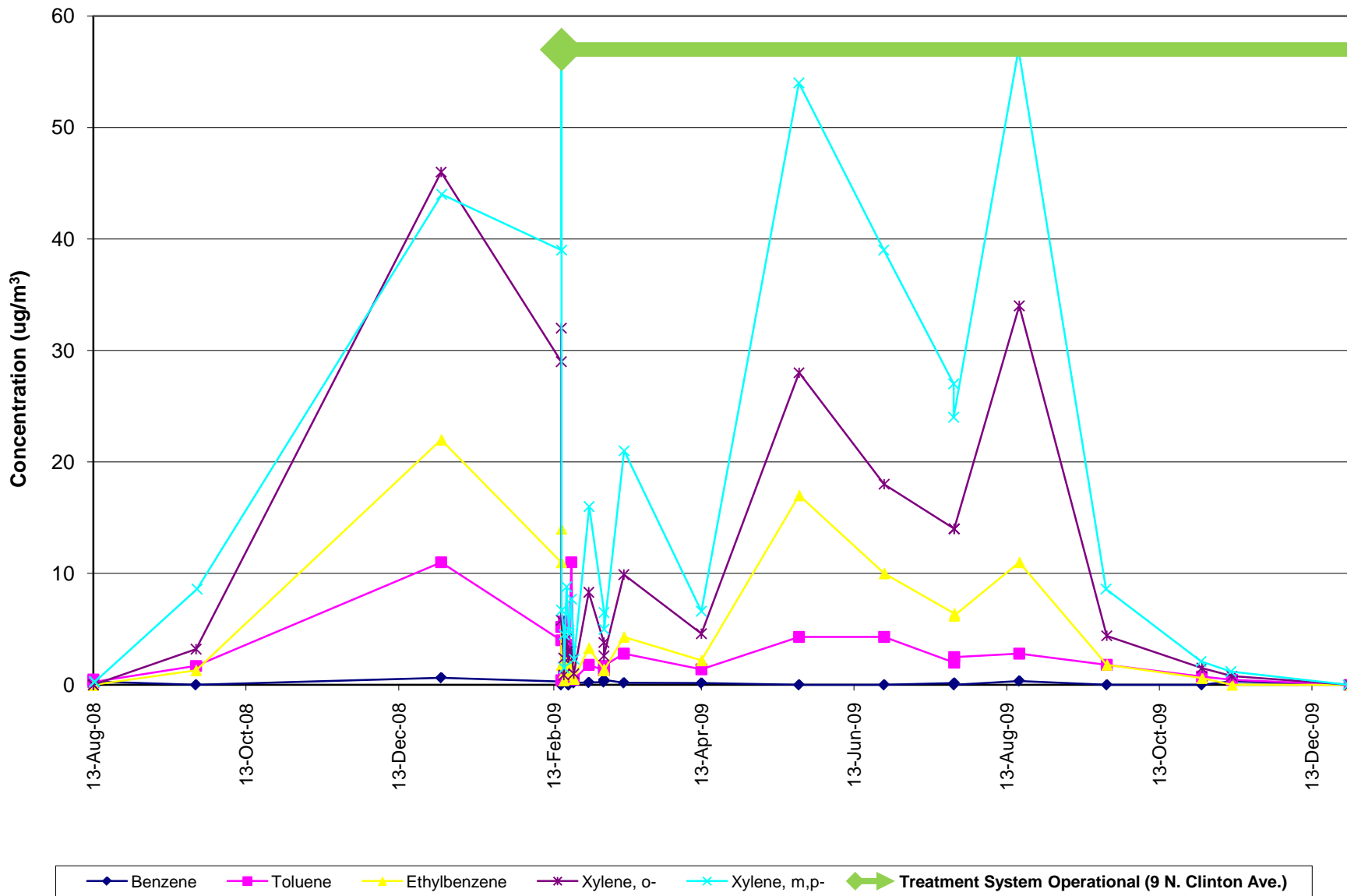


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-26

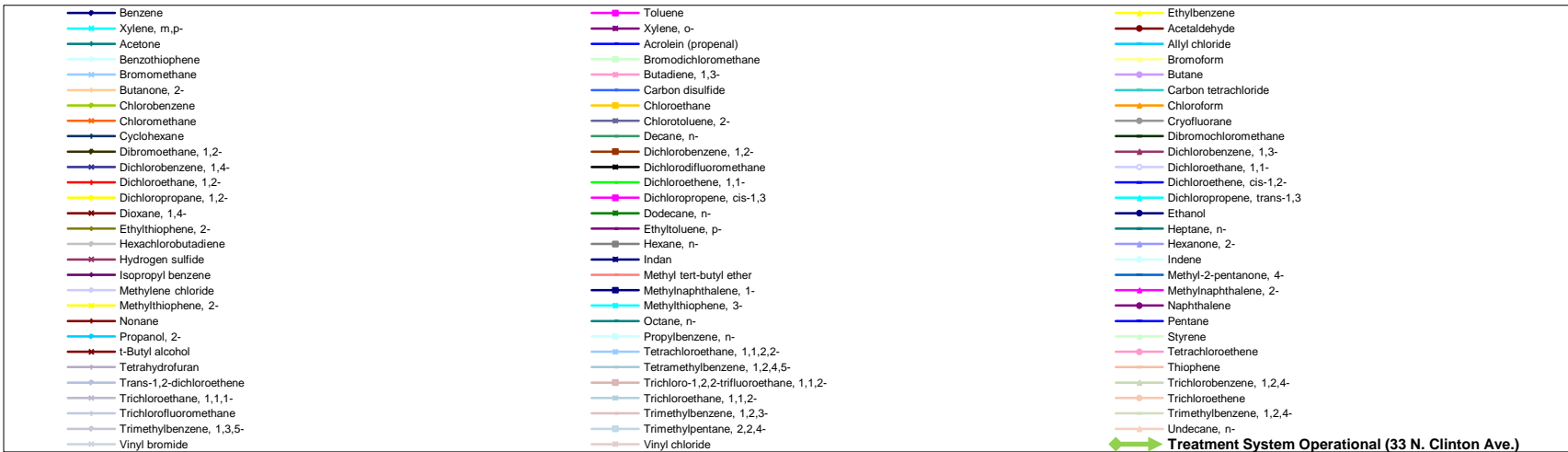
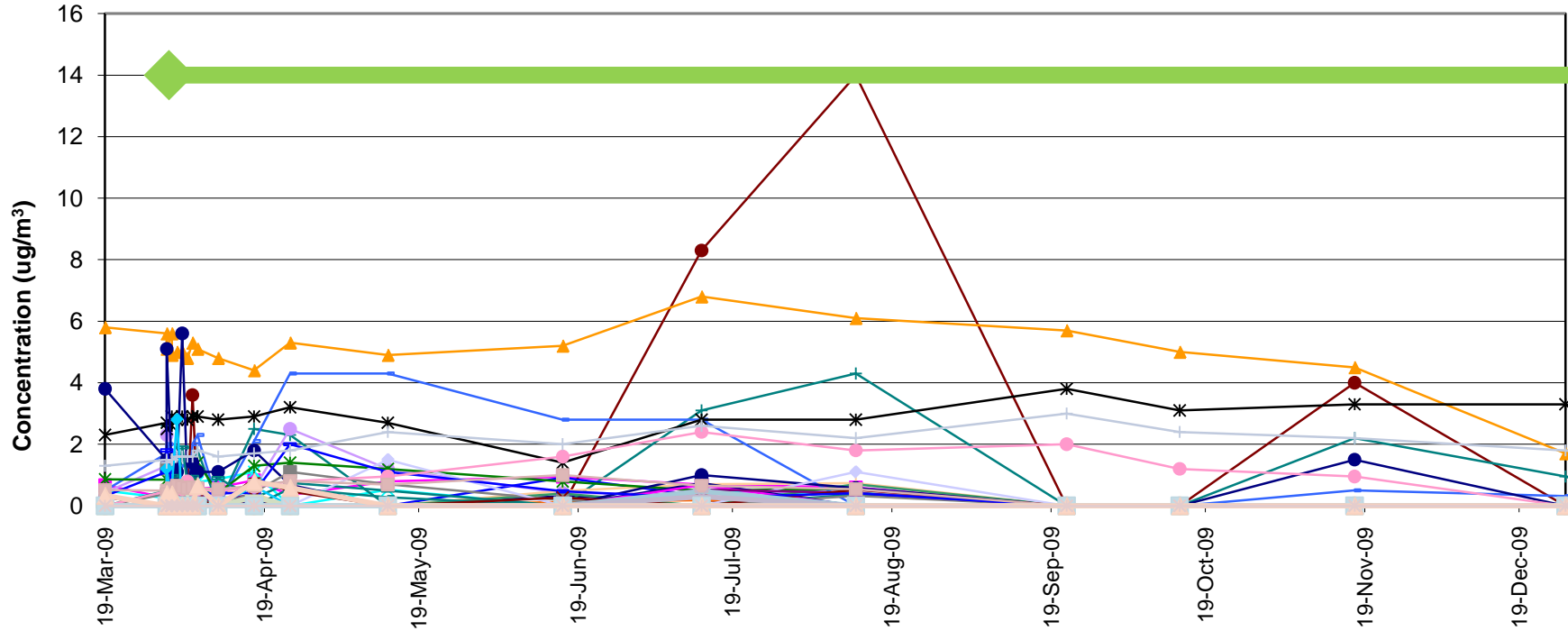


Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site

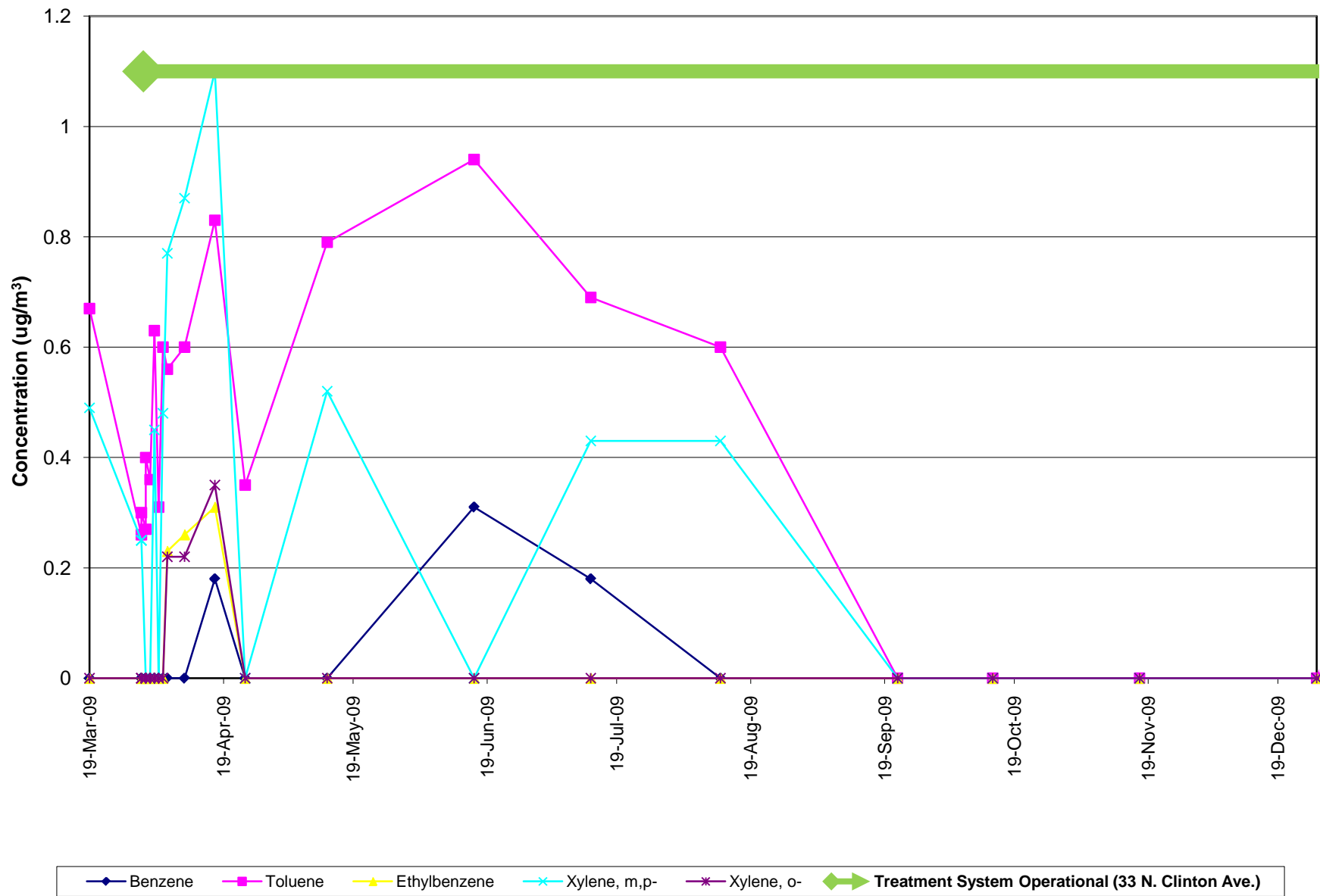
OU2SG-26 BTEX



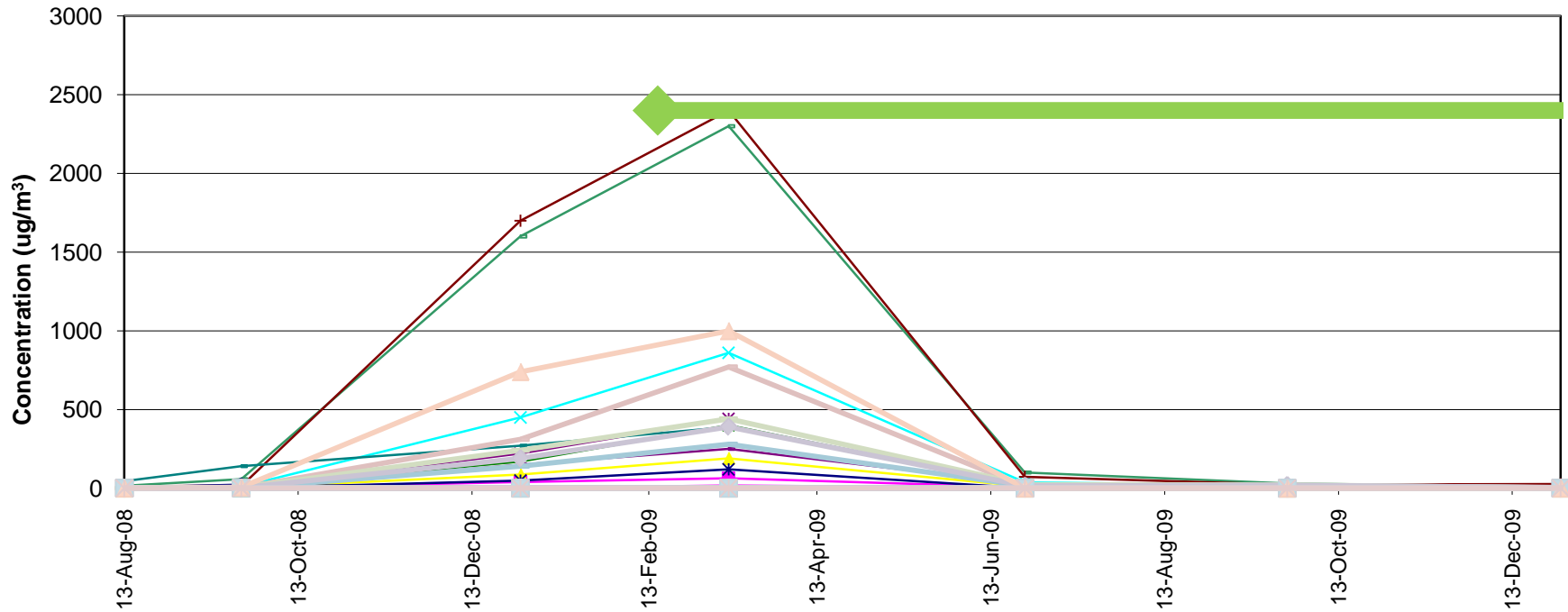
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-28



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-28 BTEX

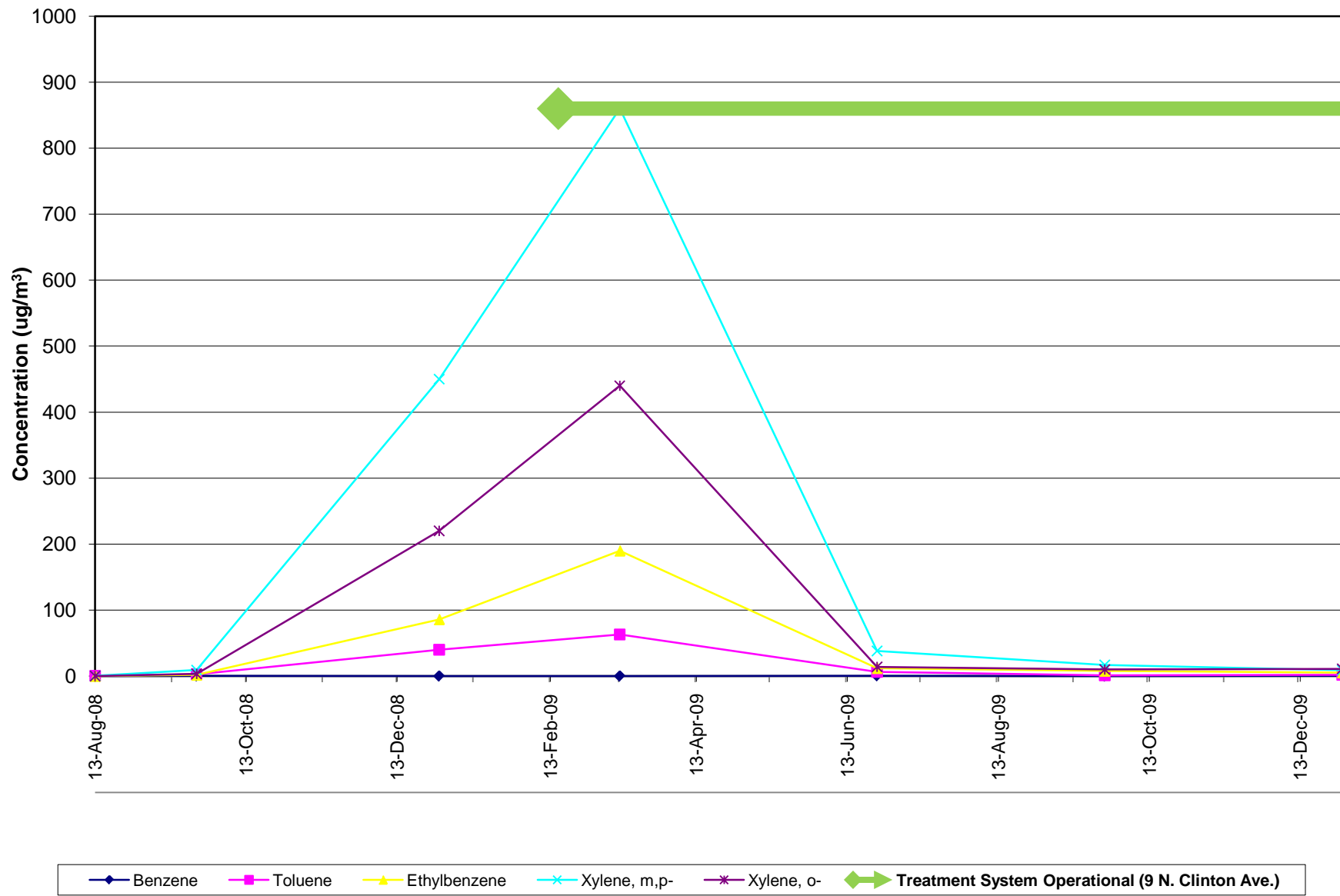


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-29

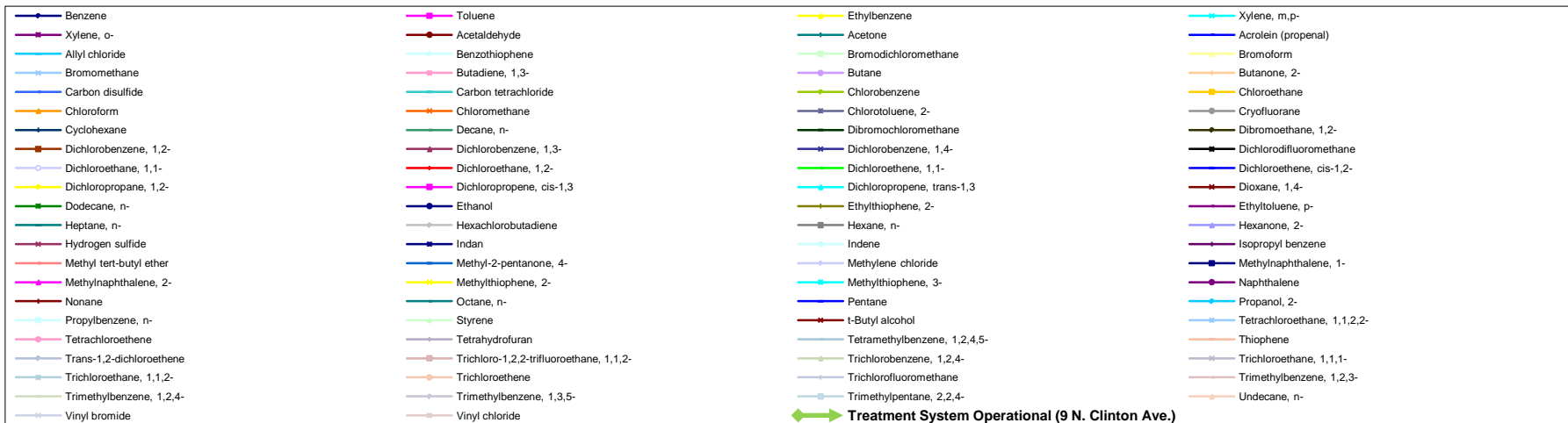
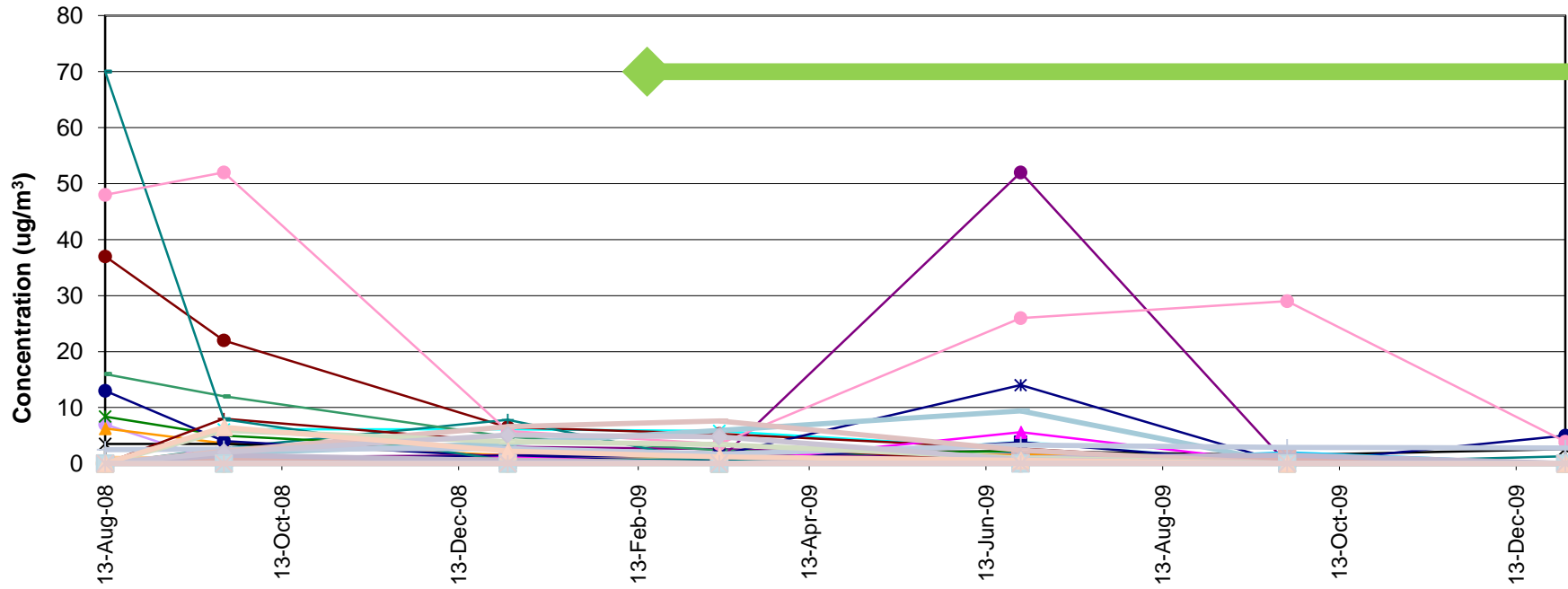


- | | | |
|----------------------------|---|--|
| ◆ Benzene | ◆ Toluene | ◆ Ethylbenzene |
| ◆ Xylene, m,p- | ◆ Xylene, o- | ◆ Acetaldehyde |
| ◆ Acetone | ◆ Acrolein (propenal) | ◆ Allyl chloride |
| ◆ Benzothiophene | ◆ Bromodichloromethane | ◆ Bromoform |
| ◆ Bromomethane | ◆ Butadiene, 1,3- | ◆ Butane |
| ◆ Butanone, 2- | ◆ Carbon disulfide | ◆ Carbon tetrachloride |
| ◆ Chlorobenzene | ◆ Chloroethane | ◆ Chloroform |
| ◆ Chloromethane | ◆ Chlorotoluene, 2- | ◆ Cryofluorane |
| ◆ Cyclohexane | ◆ Decane, n- | ◆ Dibromochloromethane |
| ◆ Dibromoethane, 1,2- | ◆ Dichlorobenzene, 1,2- | ◆ Dichlorobenzene, 1,3- |
| ◆ Dichlorobenzene, 1,4- | ◆ Dichlorodifluoromethane | ◆ Dichloroethane, 1,1- |
| ◆ Dichloroethane, 1,2- | ◆ Dichloroethene, 1,1- | ◆ Dichloroethene, cis-1,2- |
| ◆ Dichloropropane, 1,2- | ◆ Dichloropropene, cis-1,3 | ◆ Dichloropropene, trans-1,3 |
| ◆ Dioxane, 1,4- | ◆ Dodecane, n- | ◆ Ethanol |
| ◆ Ethylthiophene, 2- | ◆ Ethyltoluene, p- | ◆ Heptane, n- |
| ◆ Hexachlorobutadiene | ◆ Hexane, n- | ◆ Hexanone, 2- |
| ◆ Hydrogen sulfide | ◆ Indan | ◆ Indene |
| ◆ Isopropyl benzene | ◆ Methyl tert-butyl ether | ◆ Methyl-2-pentanone, 4- |
| ◆ Methylene chloride | ◆ Methylnaphthalene, 1- | ◆ Methylnaphthalene, 2- |
| ◆ Methylthiophene, 2- | ◆ Methylthiophene, 3- | ◆ Naphthalene |
| ◆ Nonane | ◆ Octane, n- | ◆ Pentane |
| ◆ Propanol, 2- | ◆ Propylbenzene, n- | ◆ Styrene |
| ◆ t-Butyl alcohol | ◆ Tetrachloroethane, 1,1,2,2- | ◆ Tetrachloroethene |
| ◆ Tetrahydrofuran | ◆ Tetramethylbenzene, 1,2,4,5- | ◆ Thiophene |
| ◆ Trans-1,2-dichloroethene | ◆ Trichloro-1,2,2-trifluoroethane, 1,1,2- | ◆ Trichlorobenzene, 1,2,4- |
| ◆ Trichloroethane, 1,1,1- | ◆ Trichloroethane, 1,1,2- | ◆ Trichloroethene |
| ◆ Trichlorofluoromethane | ◆ Trimethylbenzene, 1,2,3- | ◆ Trimethylbenzene, 1,2,4- |
| ◆ Trimethylbenzene, 1,3,5- | ◆ Trimethylpentane, 2,2,4- | ◆ Undecane, n- |
| ◆ Vinyl bromide | ◆ Vinyl chloride | ◆ Treatment System Operational (9 N. Clinton Ave.) |

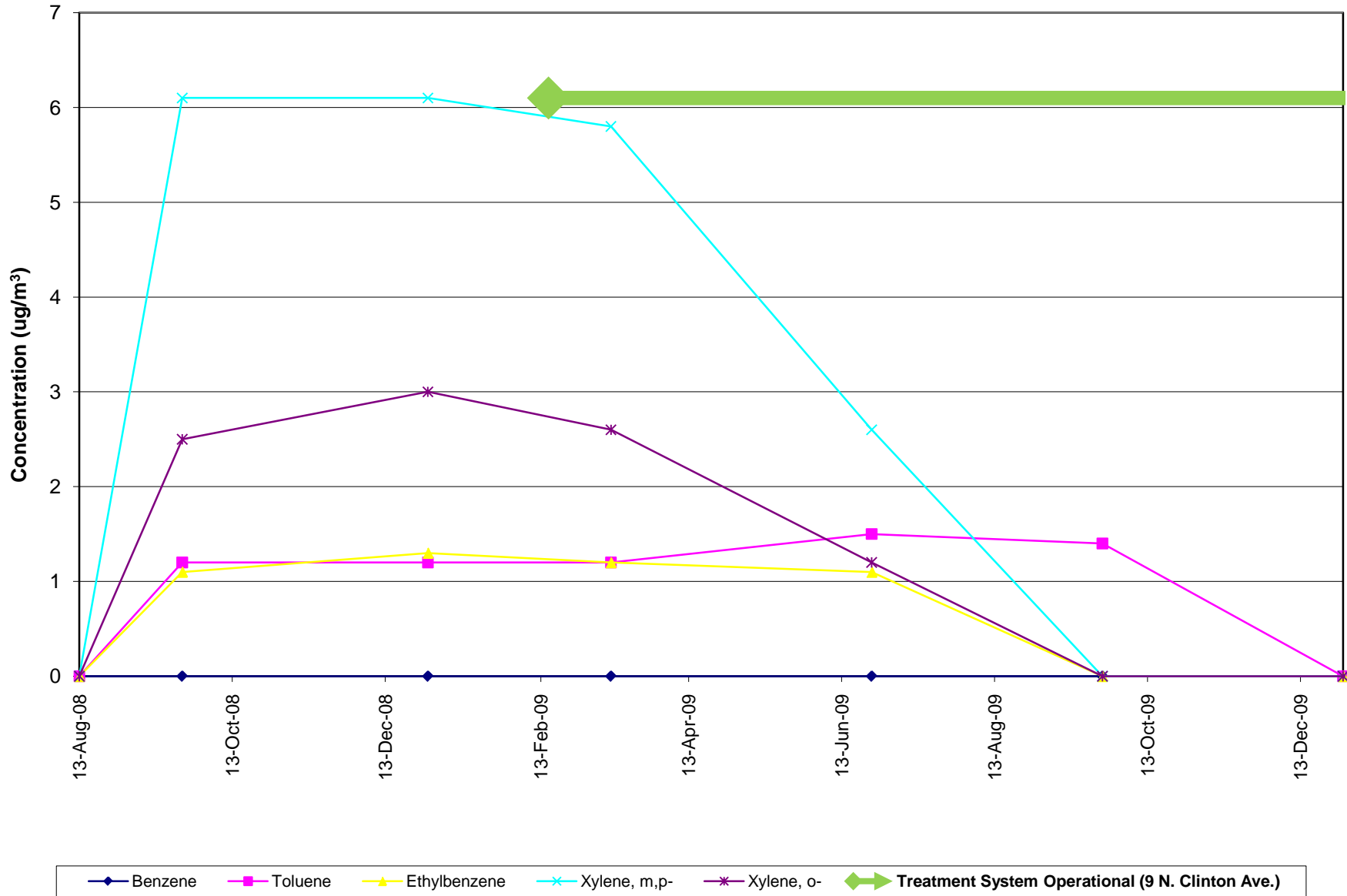
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-29 BTEX



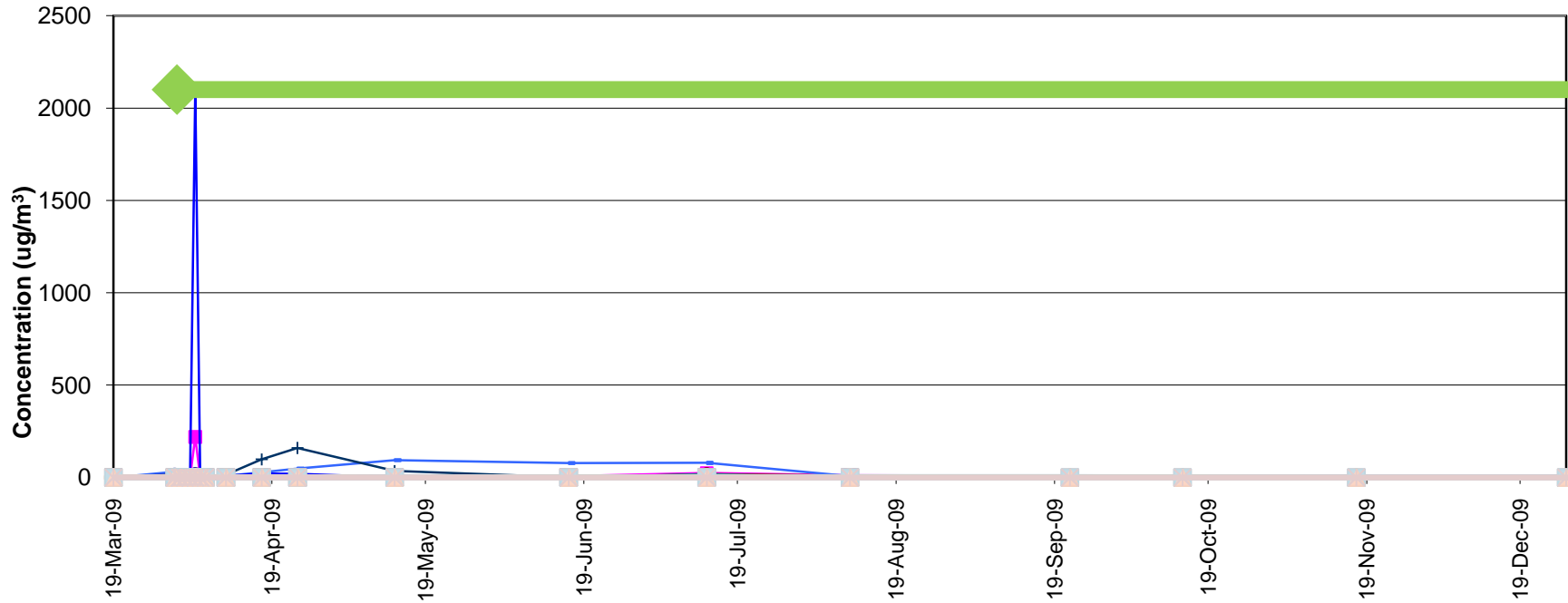
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-30



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-30 BTEX

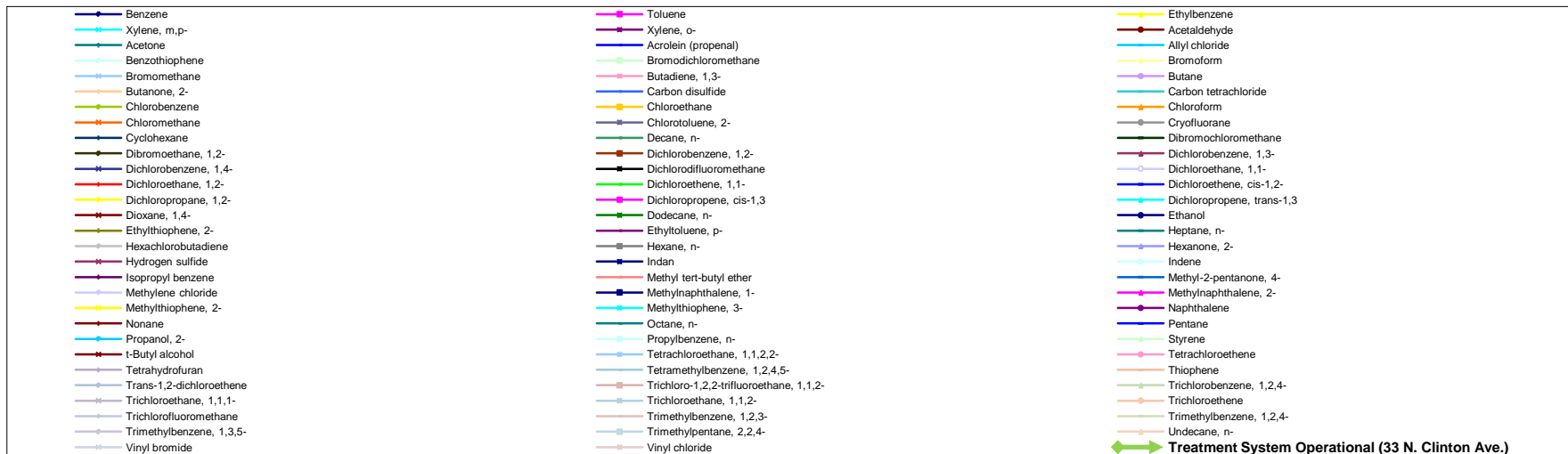
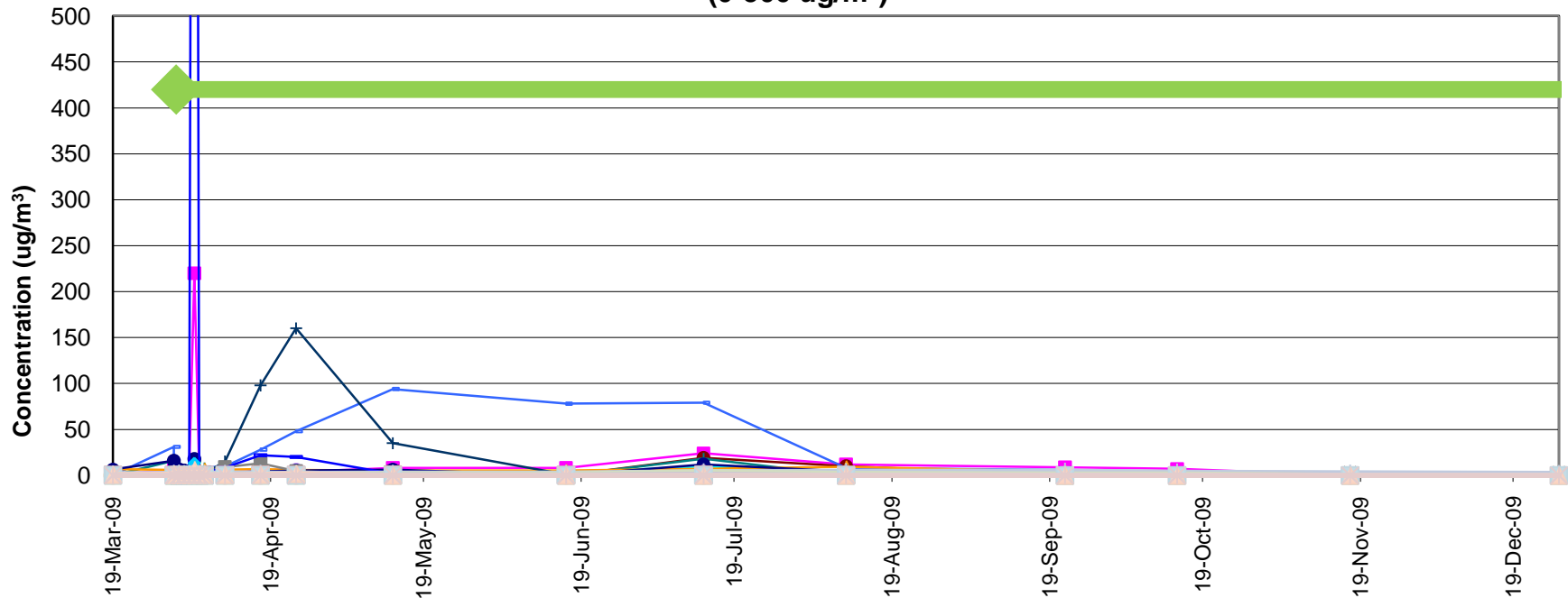


Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-31

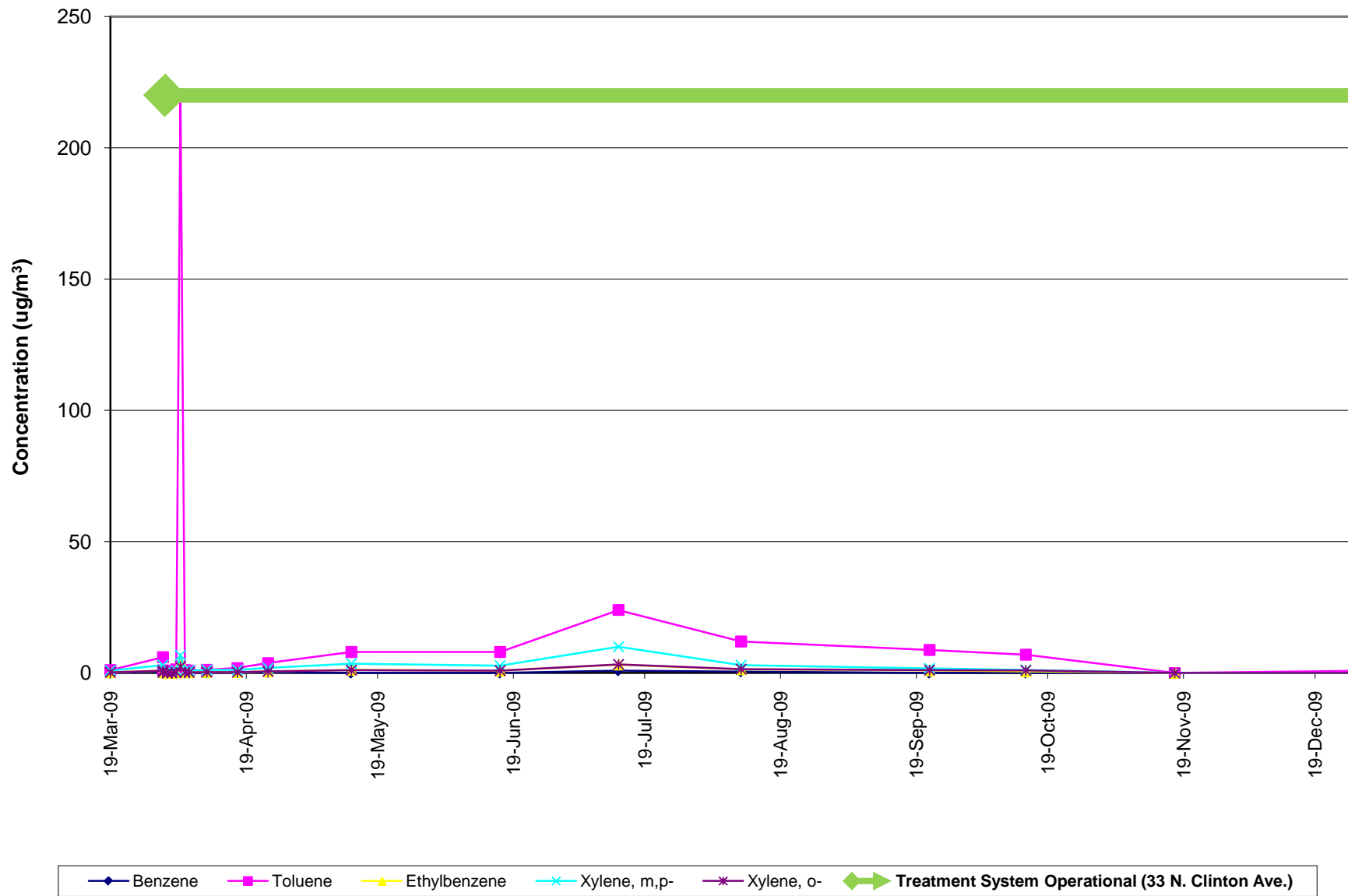


Benzene	Toluene	Ethylbenzene
Xylene, m,p-	Xylene, o-	Acetaldehyde
Acetone	Acrolein (propenal)	Allyl chloride
Benzothiophene	Bromodichloromethane	Bromoform
Bromomethane	Butadiene, 1,3-	Butane
Butanone, 2-	Carbon disulfide	Carbon tetrachloride
Chlorobenzene	Chloroethane	Chloroform
Chloromethane	Chlorotoluene, 2-	Cryofluorane
Cyclohexane	Decane, n-	Dibromochloromethane
Dibromoethane, 1,2-	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-
Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-
Dichloroethane, 1,2-	Dichloroethene, 1,1-	Dichloroethane, cis-1,2-
Dichloropropane, 1,2-	Dichloropropene, cis-1,3	Dichloropropene, trans-1,3
Dioxane, 1,4-	Dodecane, n-	Ethanol
Ethylthiophene, 2-	Ethyltoluene, p-	Heptane, n-
Hexachlorobutadiene	Hexane, n-	Hexanone, 2-
Hydrogen sulfide	Indan	Indene
Isopropyl benzene	Methyl tert-butyl ether	Methyl-2-pentanone, 4-
Methylene chloride	Methylnaphthalene, 1-	Methylnaphthalene, 2-
Methylthiophene, 2-	Methylthiophene, 3-	Naphthalene
Nonane	Octane, n-	Pentane
Propanol, 2-	Propylbenzene, n-	Styrene
t-Butyl alcohol	Tetrachloroethane, 1,1,2,2-	Tetrachloroethene
Tetrahydrofuran	Tetramethylbenzene, 1,2,4,5-	Thiophene
Trans-1,2-dichloroethene	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichlorobenzene, 1,2,4-
Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethene
Trichlorofluoromethane	Trimethylbenzene, 1,2,3-	Trimethylbenzene, 1,2,4-
Trimethylbenzene, 1,3,5-	Trimethylpentane, 2,2,4-	Undecane, n-
Vinyl bromide	Vinyl chloride	
		◀▶ Treatment System Operational (33 N. Clinton Ave.)

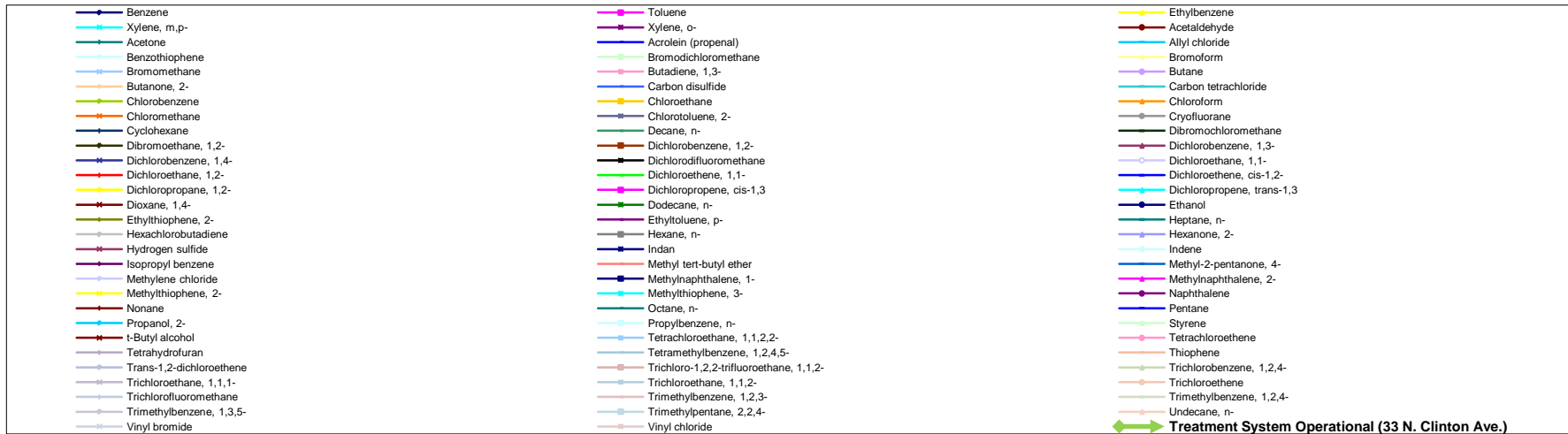
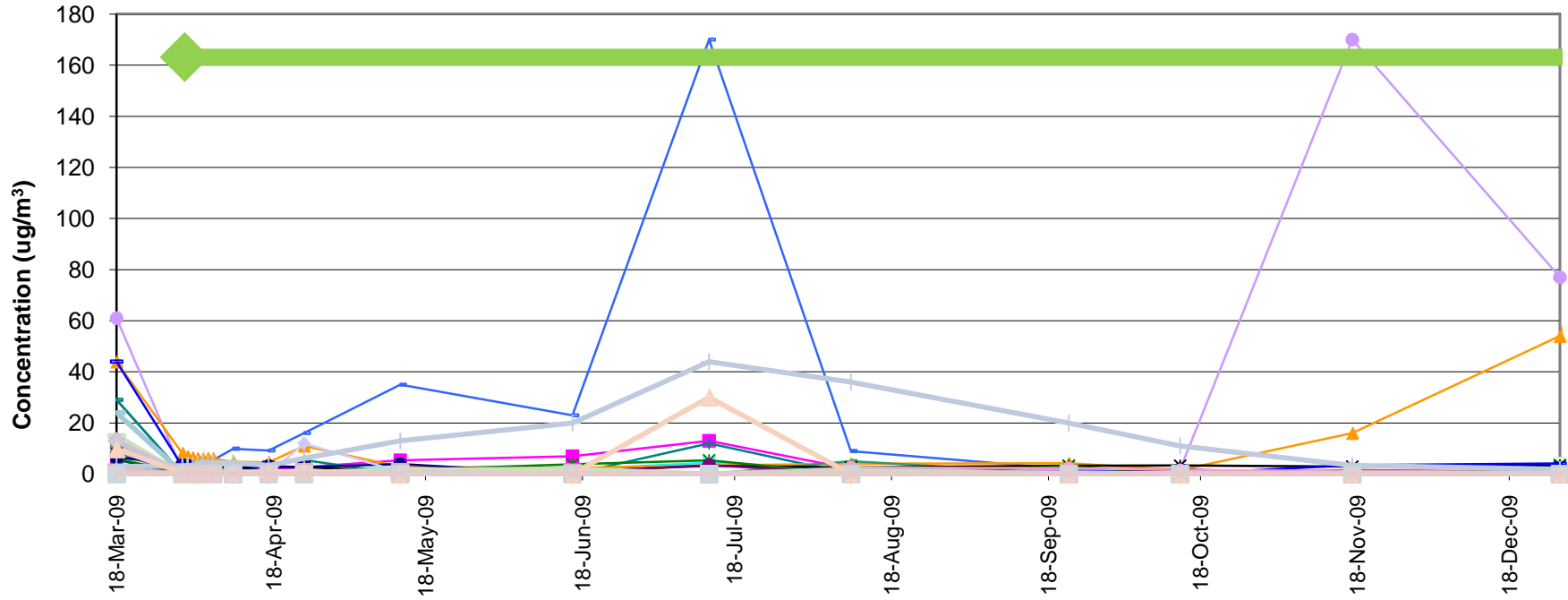
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-31
(0-500 ug/m³)



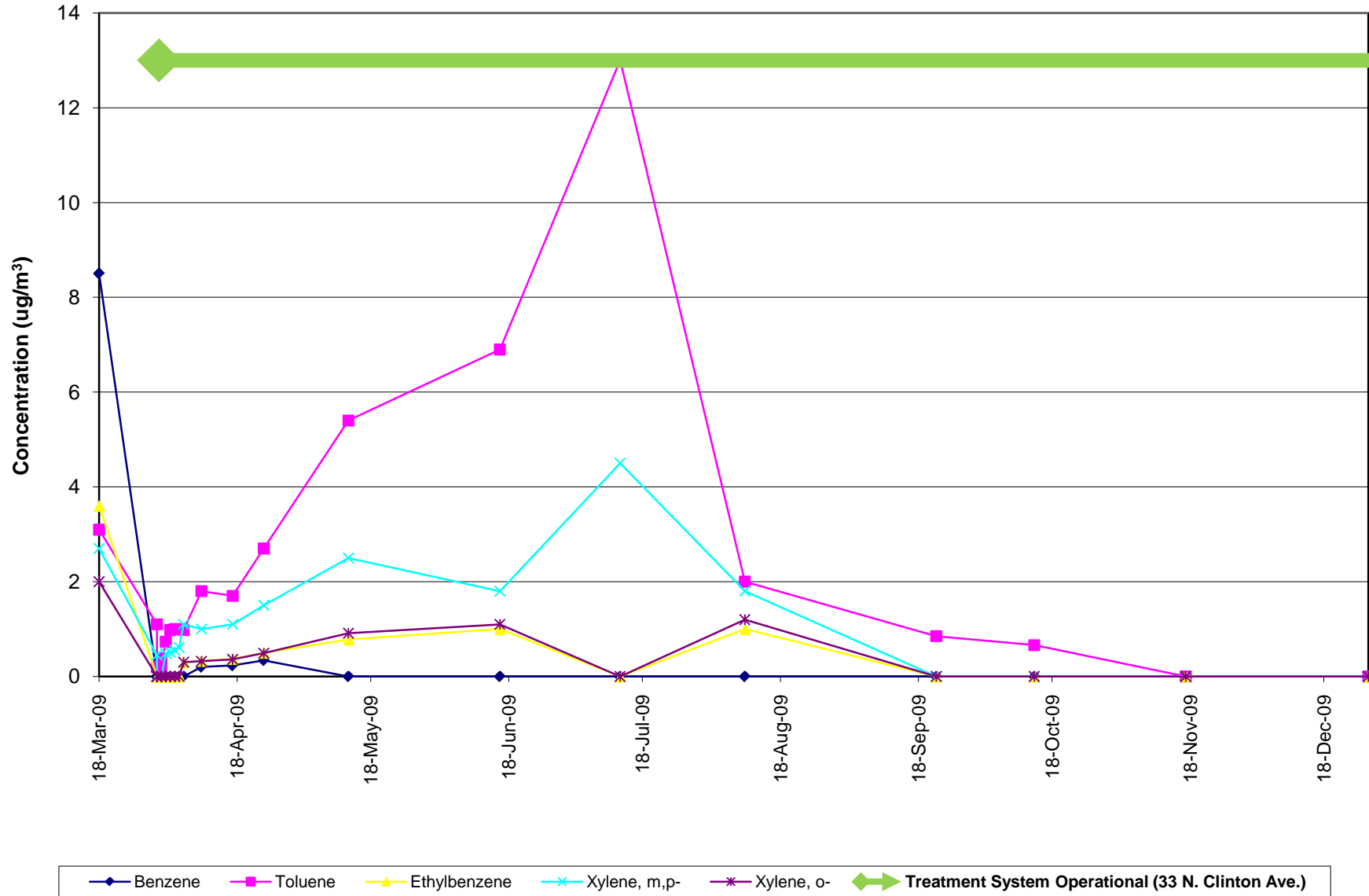
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-31 BTEX



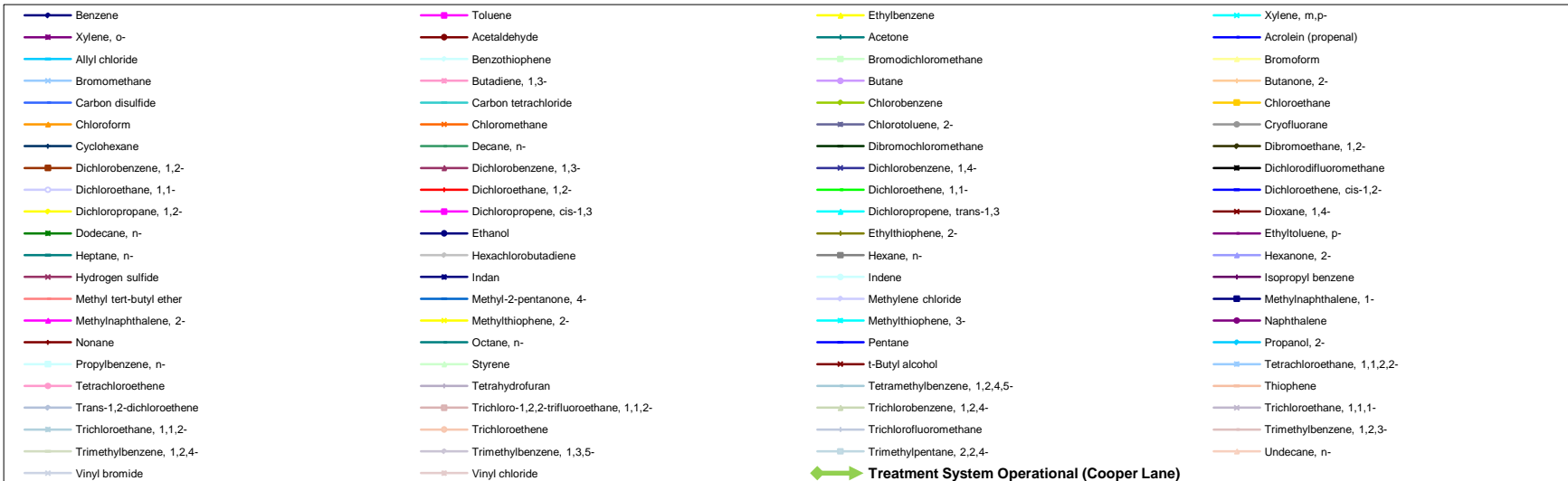
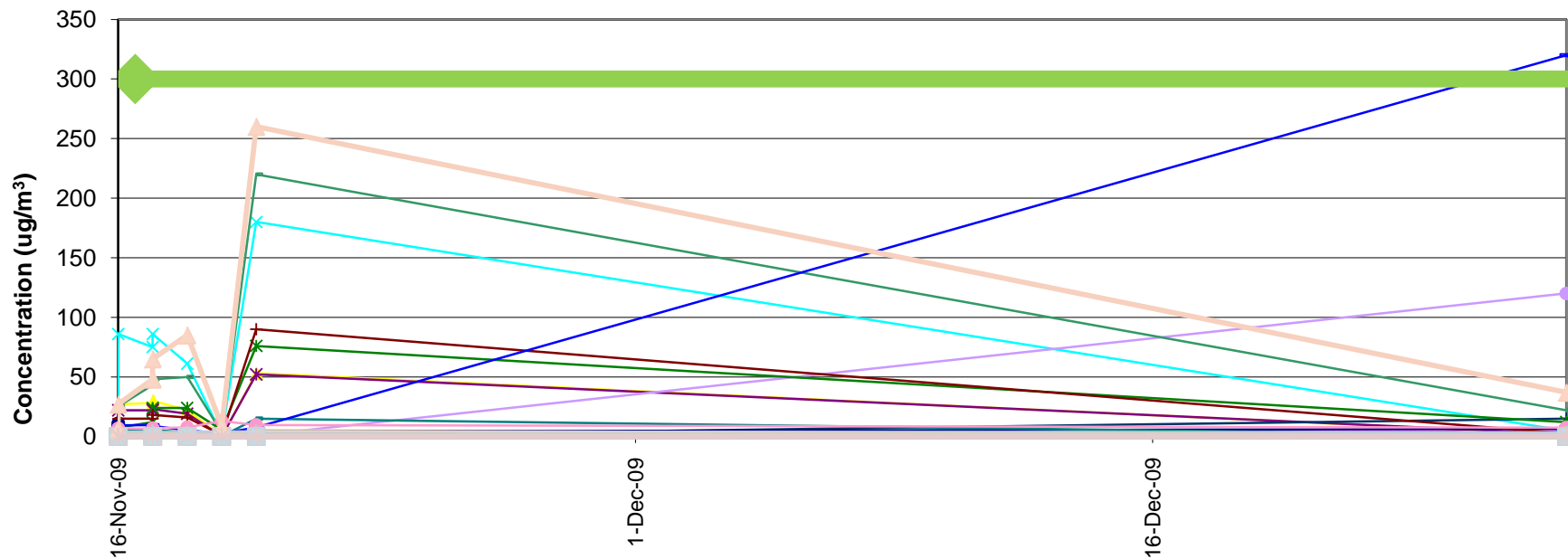
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-32



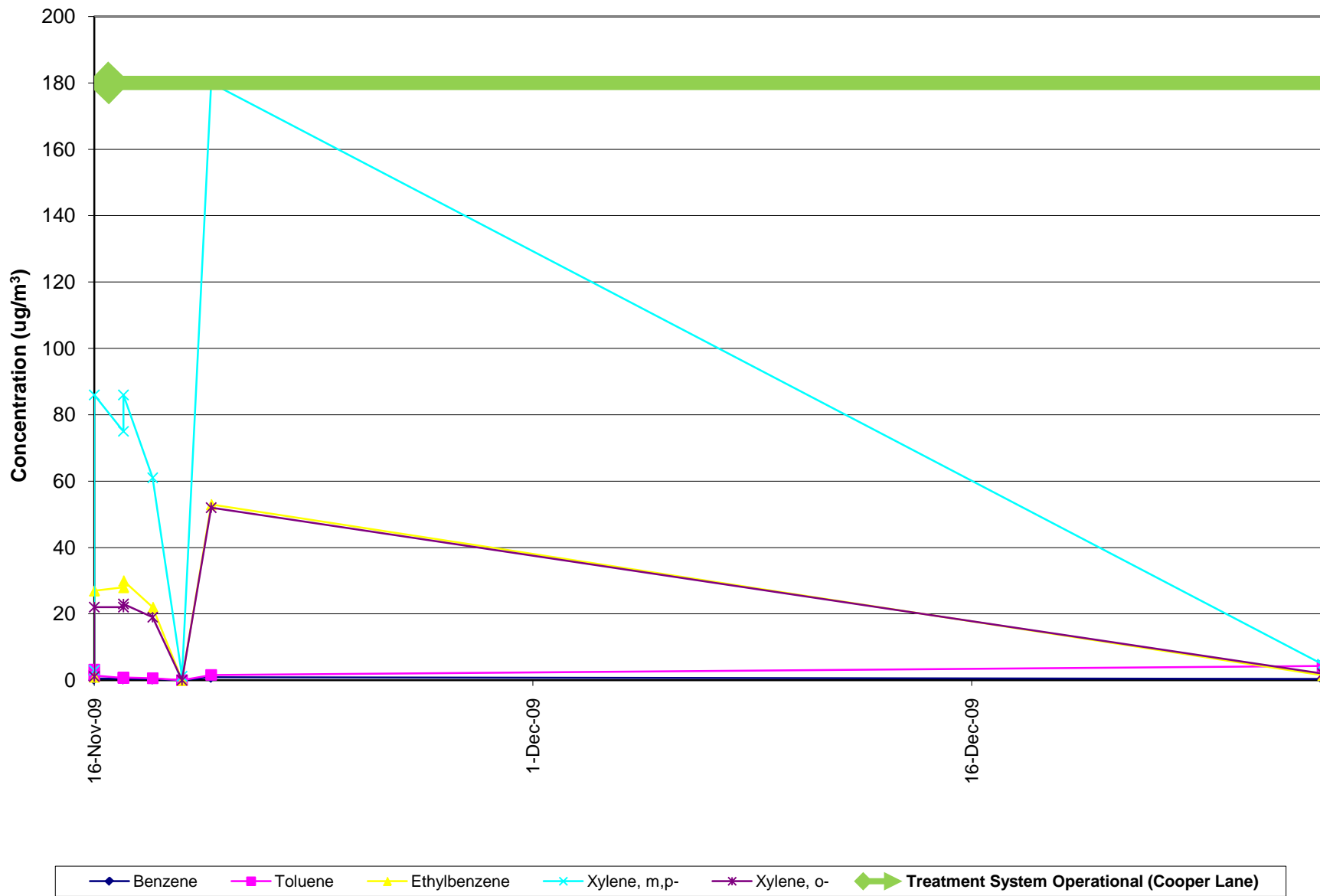
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-32 BTEX



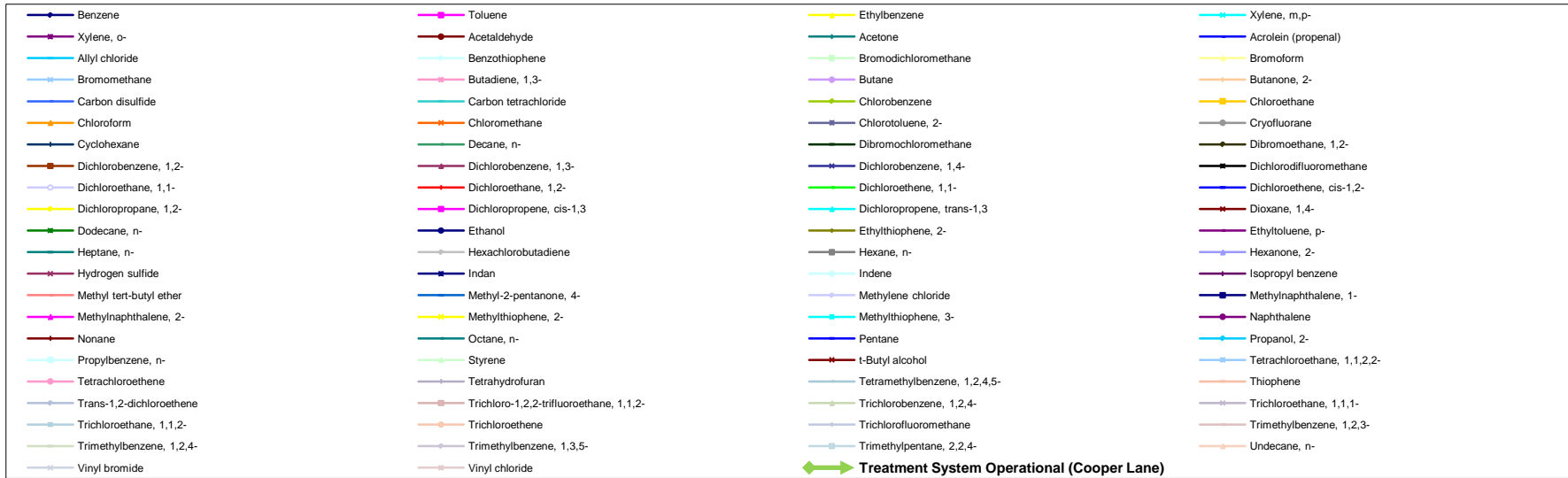
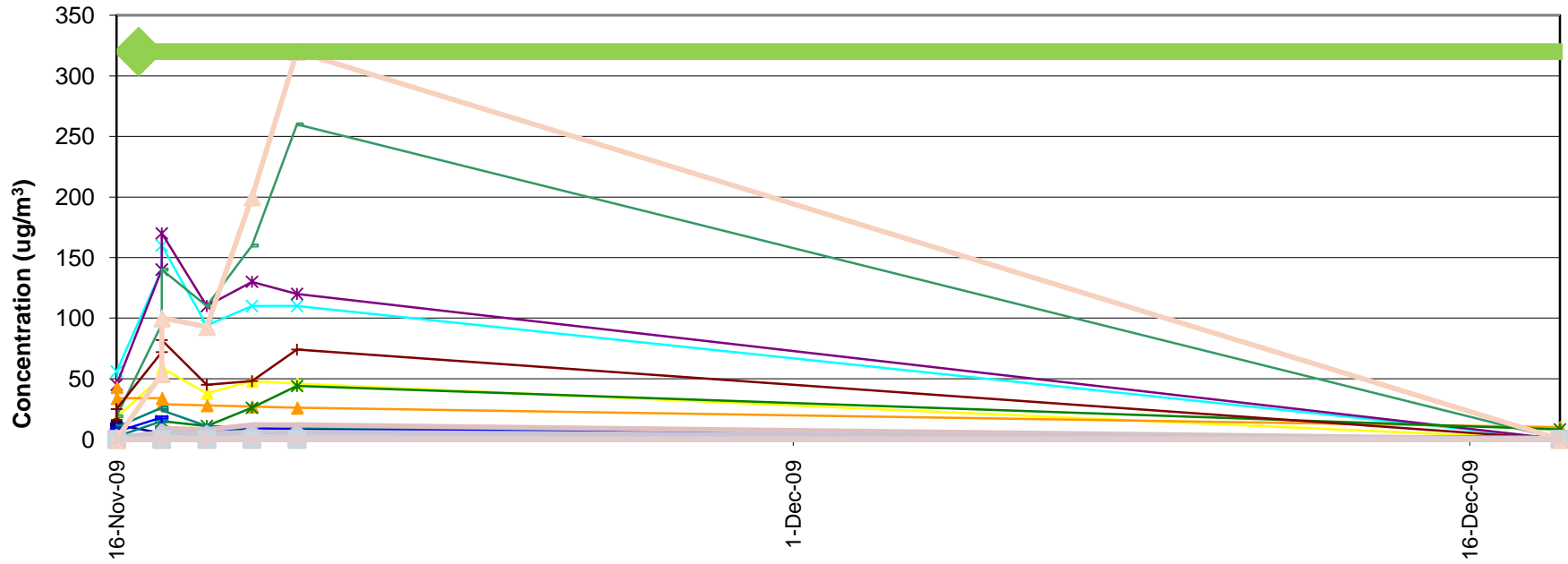
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-33



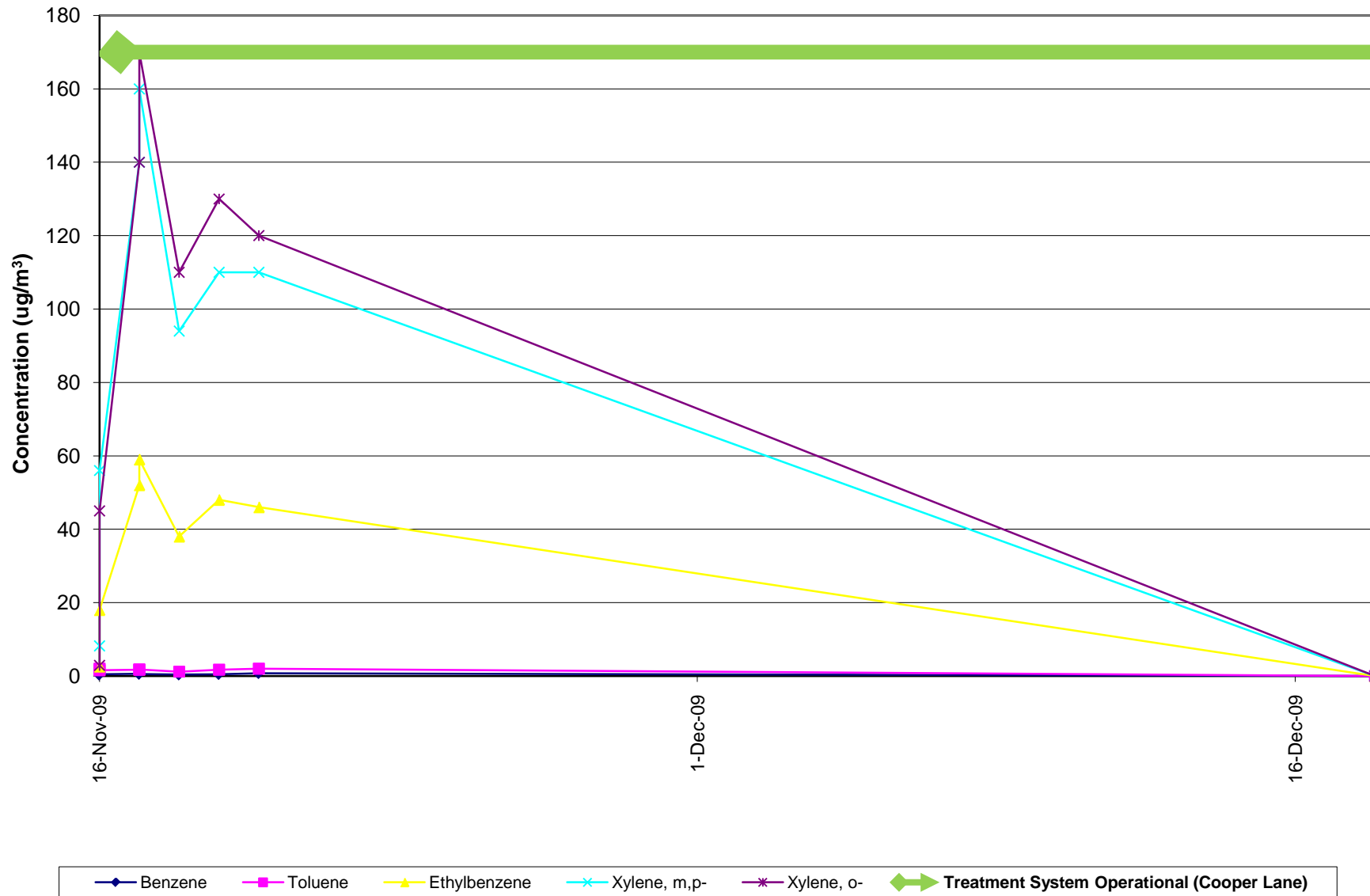
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-33 BTEX



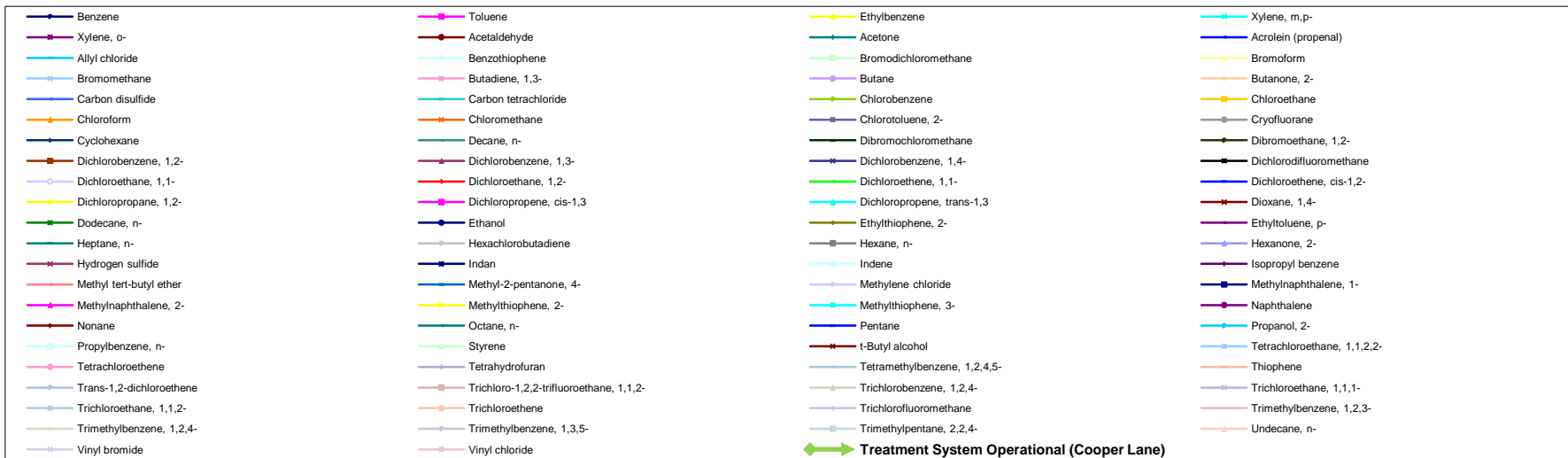
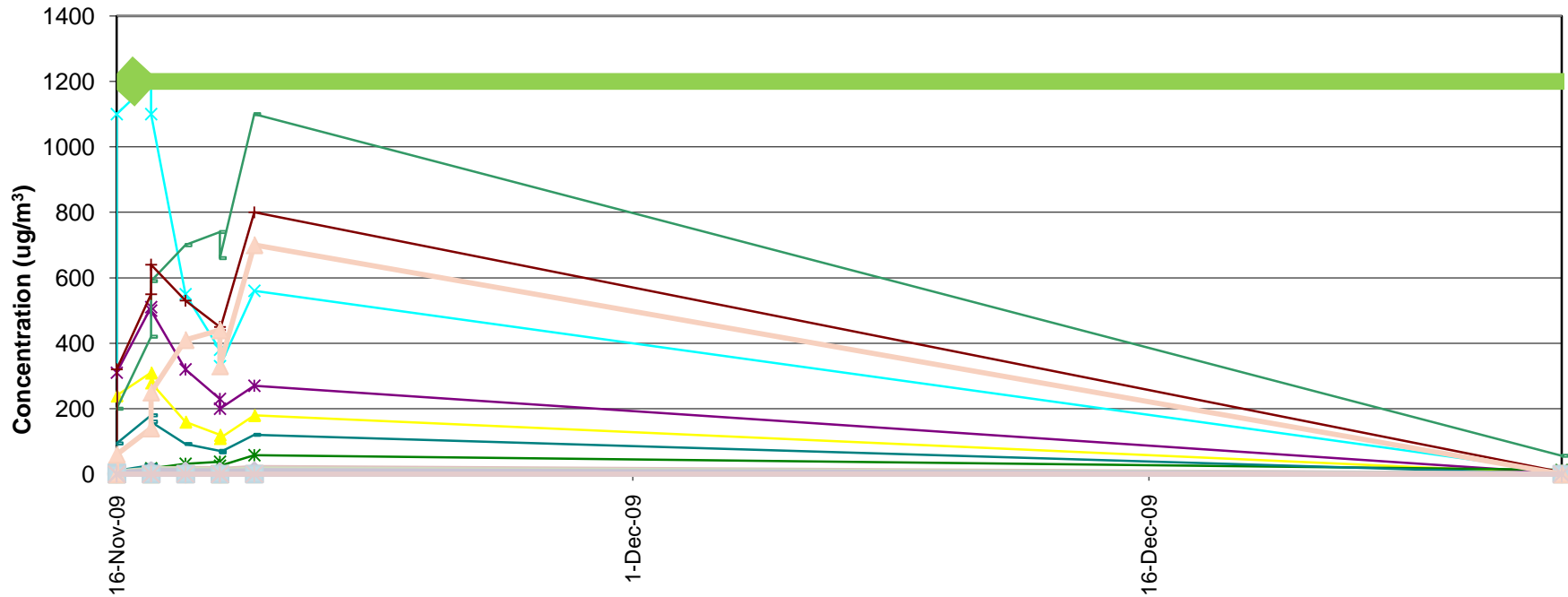
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-34



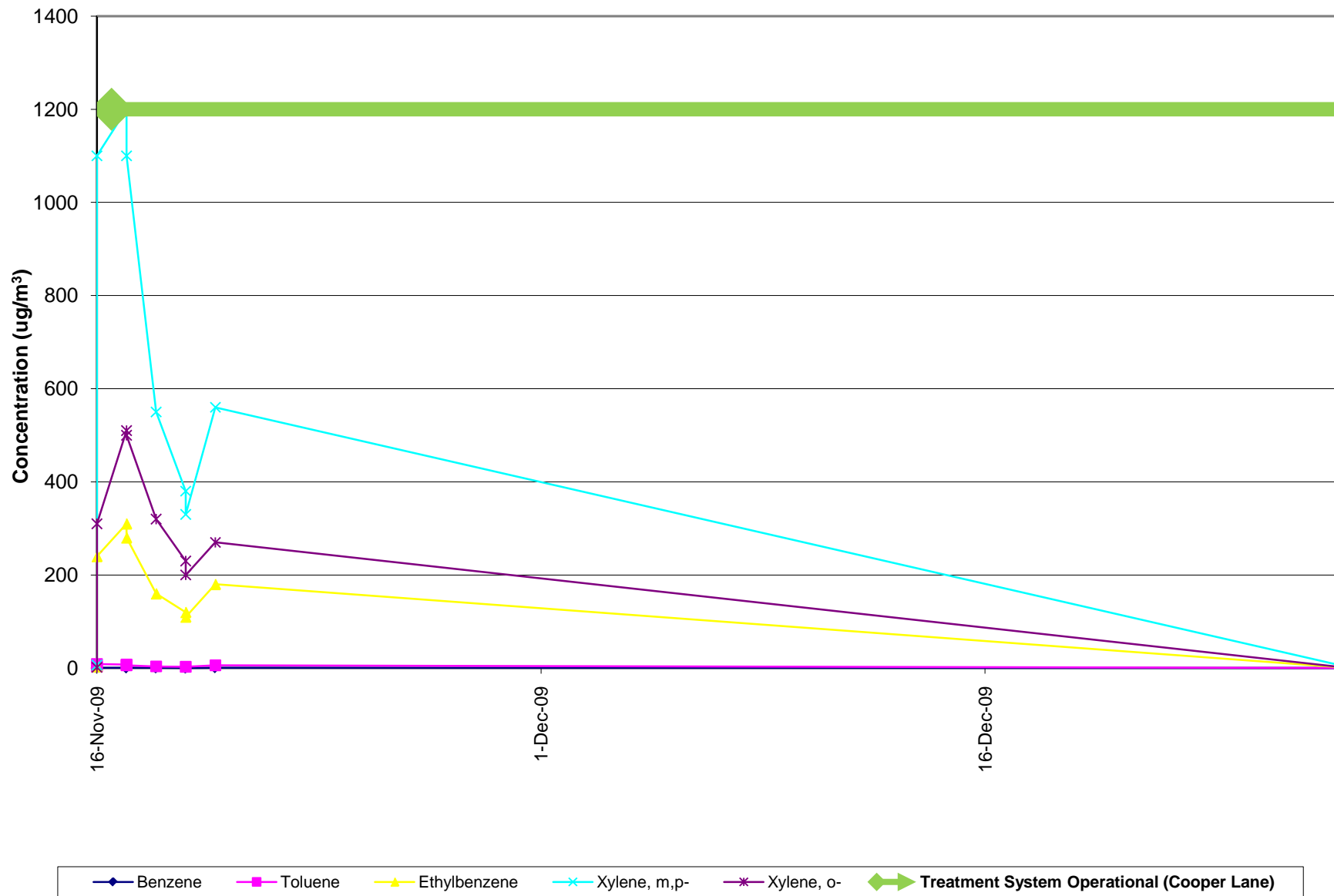
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 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-34 BTEX



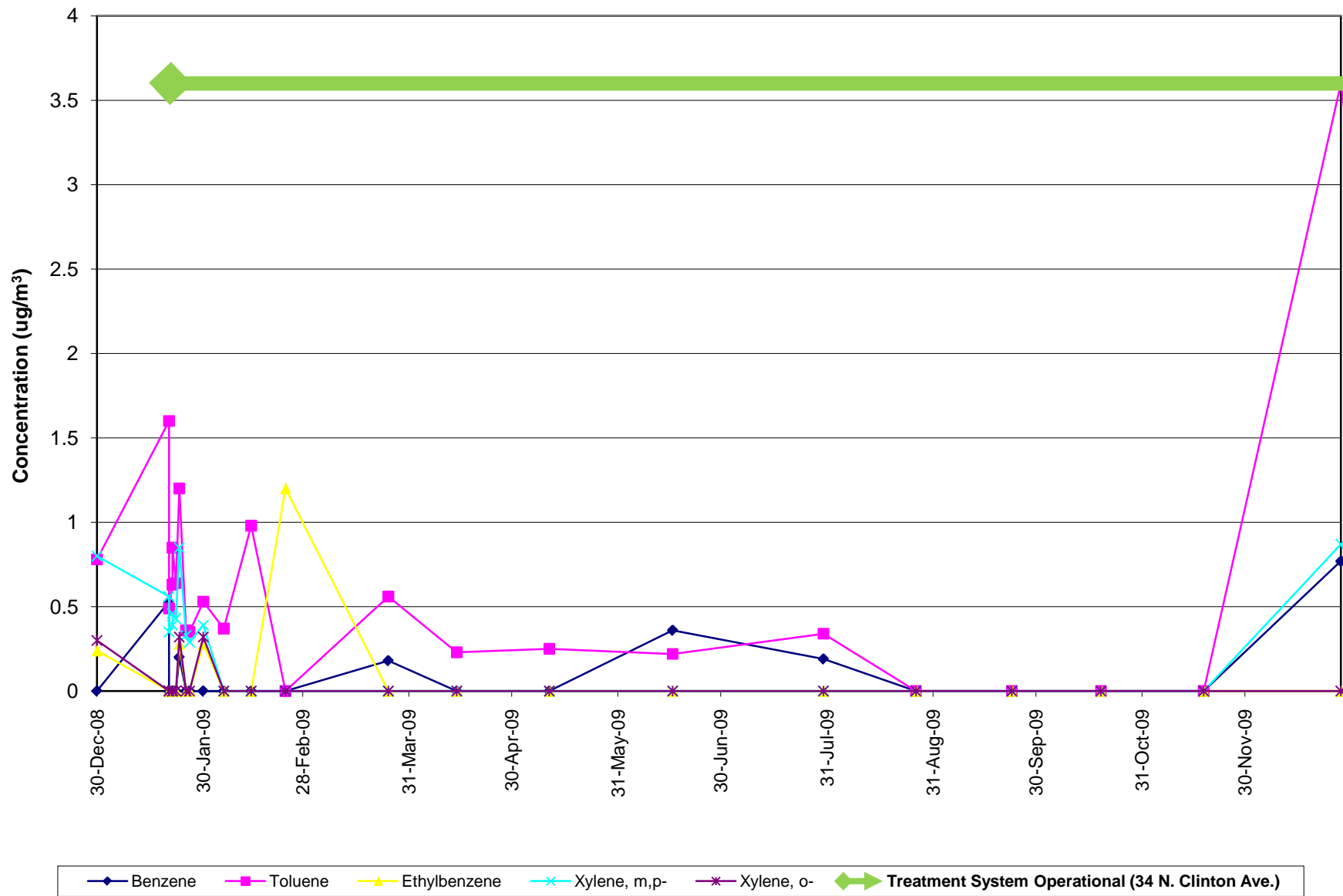
Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-35



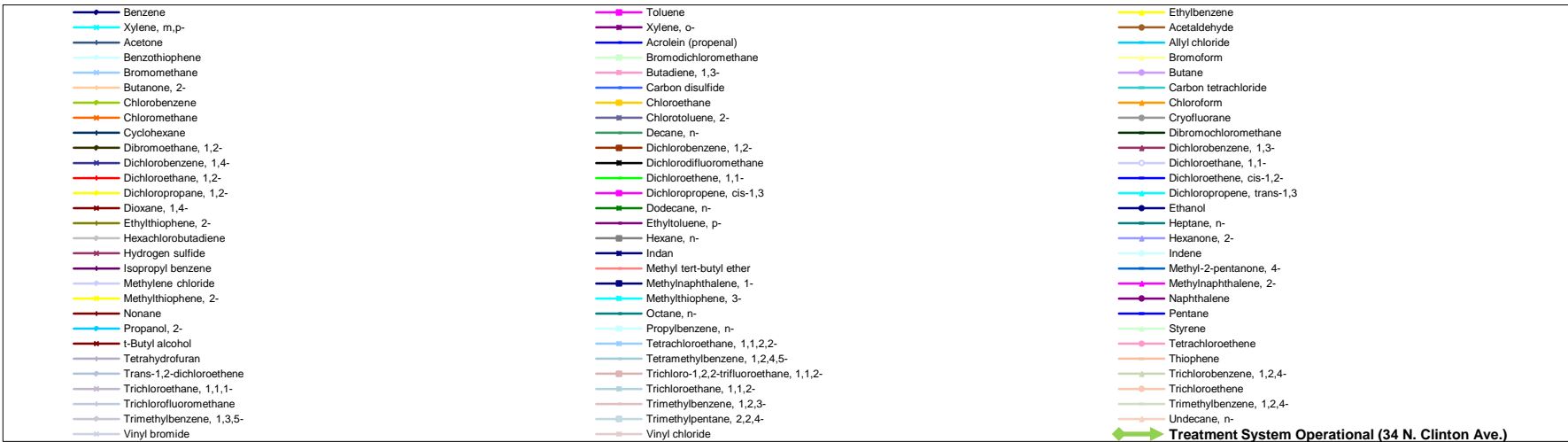
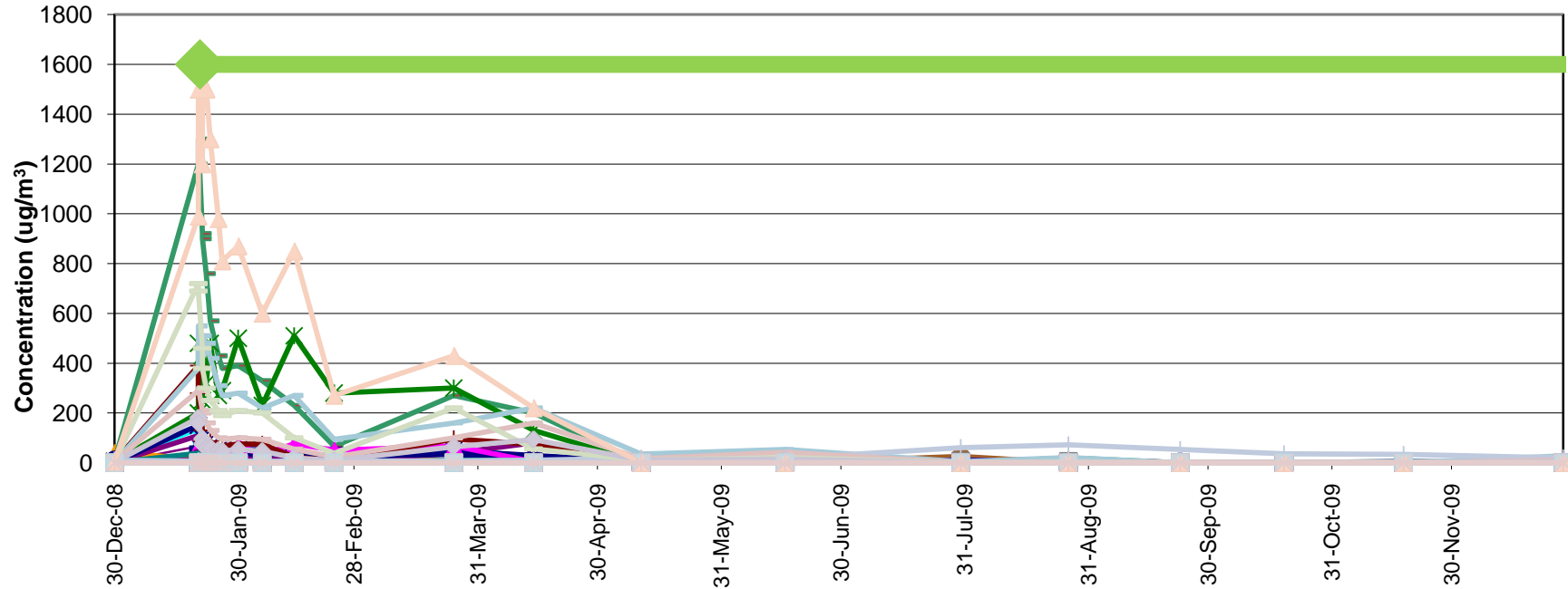
Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-35 BTEX



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-38 BTEX



Appendix L
Soil Vapor Data
OU-2 Oxygen Injection Systems Completion Report
Bay Shore/Brightwaters Former MGP Site
OU2SG-39



Appendix L
 Soil Vapor Data
 OU-2 Oxygen Injection Systems Completion Report
 Bay Shore/Brightwaters Former MGP Site
OU2SG-39 BTEX

